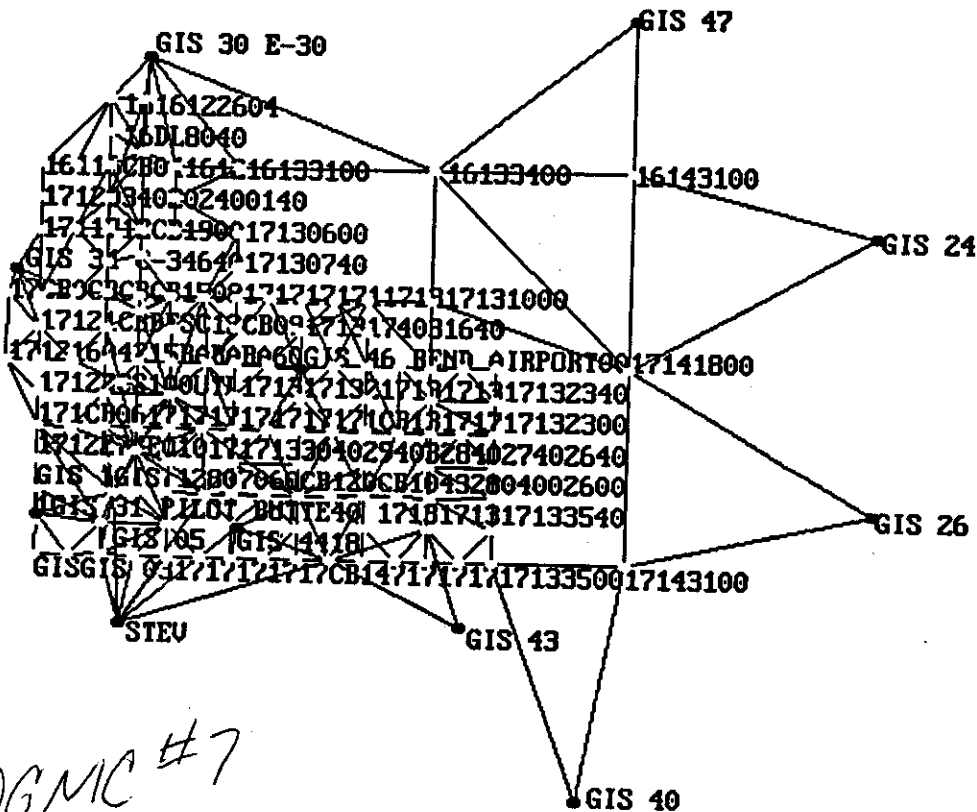


# DESCHUTES COUNTY SECTION CORNER SURVEY

## NORTHEAST BEND

BY

DESCHUTES COUNTY  
SURVEYOR'S OFFICE



DGMIC #7  
FILED

DATE 5-14-93  
DESCHUTES COUNTY SURVEYOR  
BY Sheila Odde

## **NORTHEAST BEND G.P.S. CONTROL SURVEY**

### **GENERAL:**

The purpose of this survey was to establish high precision mapping coordinates on government land corners, section and quarter section corners, with g.p.s. by directly occupying the corners or a secondary monument when not possible to receive adequate gps signals. From the secondary monument a side tie was made by conventional survey methods. The work was performed in of 1991 and 1992 by various personal with 3 Trimble 4000 ST G.P.S. receivers from the Deschutes County Public Works Department. The County Surveyors Office reduced the baseline measurements and computed geodetic coordinates on the NAD 83-91 (North American Datum of 1983, readjusted in 1991) and NAD 83-91 Deschutes County Plane Coordinates in international feet.

### **MEASUREMENTS:**

I used Trim 640 single baseline processor for the reduction of GPS measurements to produce fix solution base lines and holding to Trimble's guideline to high confidence limits for the ratio and rms. criteria.

A Level loop was run with a Wild Ni 2 level and standard rod from N.G.S. bench marks K 2 to control point BA 40 and 17121300 to check the geoid modeling in the adjustment, the difference was less than 0.02 of a foot.

### **CLOSURES:**

I ran numerous loop closures on the base lines to check for HI errors and isolation of bad lines for remeasure. In the most part loop closures were 1 to 2 ppm for lines with 3 or more independent sessions.

## **ADJUSTMENT:**

### **HORIZONTAL**

A minimal constrained adjustment was accomplished by holding Pilot Butte fix with excellent result and many partial constrained adjustments using combinations of two to five fix points, all showing excellent internal consistency. For completion I added GIS 24,26,30,34,40,43,44,46,47 AND Stevens to the system for the fully constrained adjustment of the network. Datum for all adjustments was NAD 83 (1991) in latitude, longitude and ellipsoidal height.

### **ORTHOMETRIC**

First we used NGS GEOID 90 program to compute geoid heights at each control point to make a geoid model of the control area. By fixing orthometric heights of three reliable points in a constrained adjustment, we can cause the geoid model transformation (deflection in latitude and longitude plus a height constant) onto the same orthometric datum. Here we can analyze the record elevation at our control points by using different combinations of fixed height to find errors in data entry, movement of bench marks and bad elevations.

### **MARK DATA SHEET:**

The mark data sheet shows information about each control station in the network, such as name, number, horizontal & vertical datum, coordinates, scale factor, convergence, general information and sketch.

**NOTE: ALL VALUES ARE NAD 83 (1991) GPS**

### **DESCHUTES COUNTY COORDINATE SYSTEM:**

The County Surveyors Office and the County GIS Section agreed on a conformal mapping projection for the best fit of the 80 % population area of Deschutes

County, for a grid to ground distances, being no worse than 1 part in 50,000. This system is the best for the integration maps, deeds, etc., into the County GIS and should be of assistance to local surveyors. The County Surveyor in the process of establishing coordinates at section and 1/4 section corners on the Deschutes County Plane Coordinate System.

SYSTEM DATA:

DATUM = NAD 83(1991)

PROJECTION = TRANSVERSE MERCATOR

ZONE = DESCHUTES COUNTY

CENTRAL MERIDIAN = W 121° 17' 00.0000"

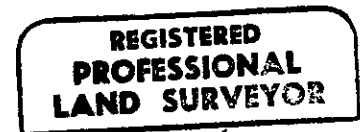
LATITUDE OF ORIGIN = N 43° 00' 00.000"

ORIGIN NORTHING = 0.00000

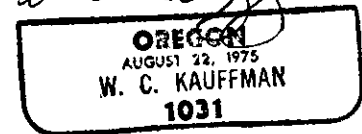
ORIGIN EASTING = 3,300,000.00

SCALE ALONG MERIDIAN = 1.00016000

LINEAR UNITS = INTERNATIONAL FOOT



*W. C. Kauffman*



*Exp. 12-93*

**ACKNOWLEDGMENT:**

A project of this magnitude and complexity could not be accomplished without the help and cooperation of many people.

To the people who worked in the field on this project, John Blunt and Steve Powell, City of Bend, Ken Grantham and Don Sweet, Deschutes Co. Surveyor's Office, Roy Easter, Jack Smith, Scott Freshwaters and Pete Manley, Deschutes Co. Public Works.

A special recognition goes to the author-programmer of Trimnet-Plus, Mike Potterfield of Trimble Navigation, for the opportunity to beta test this very extraordinary gps survey adjustment program. Also his guidance and technical advice helped set the direction of this project.

**DESCHUTES**

**COUNTY**

**PRIME**

**CONTROL**

**POINTS**

**HELD**

**FIX**

DEPARTMENT OF COMMERCE  
NOAA - NOS - C&GS  
NATIONAL GEODETIC SURVEY

PUBLICATION DATE: APRIL 26, 1991  
USGS QUAD SHEET: BEND

**PILOT BUTTE**

PID: QD1681

HORIZONTAL DATUM: NAD 83 (1991)  
VERTICAL DATUM: NGVD 29

STATE: OREGON  
COUNTY: DESCHUTES

LATITUDE: 44° 03' 37.94301" N ±0.00010 SECONDS  
LONGITUDE: 121° 16' 59.64811" W ±0.00020 SECONDS

3-6 AM

ORTHOMETRIC HEIGHT: { 1261.4 METERS  
4138. FEET

GEOID HEIGHT: -19.433 METERS  
ELLIPSOIDAL HEIGHT: 1241.747 ±0.034 METERS  
X: 1801468.589 METERS  
Y: 2876581.605 METERS  
Z: 5383440.509 METERS

HORIZONTAL NETWORK ORDER: B  
ELLIPSOIDAL HEIGHT ORDER: SECOND CLASS III

THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE NATIONAL GEODETIC SURVEY IN FEBRUARY 1991. THE ORTHOMETRIC HEIGHT WAS DETERMINED BY VERTICAL ANGLE OBSERVATIONS. THE GEOID HEIGHT WAS DETERMINED BY GEOID90. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATIONS.

HORIZONTAL DATUM SHIFT-----LATITUDE-----LONGITUDE  
NAD83 minus NAD27 -00.58599" +04.10711" (Based on Adjusted Positions)

**PLANE COORDINATES**

GRID	ZONE	NORTHING METERS	EASTING METERS	POINT SCALE FACTOR	CONVERGENCE DEG MIN SEC	*GRID AZIMUTH TO
						PILOT BUTTE AZ MK DEG MIN SEC
SPC	OR S	266,223.939	1,437,243.481	1.00001595	- 0 32 9.1	267 51 56.9
SPC	OR N	44,073.993	2,437,239.542	1.00007981	- 0 33 19.7	267 52 56.9
UTM	10	4,880,029.657	637,500.737	0.99983253	+ 1 11 38.6	266 08 09.2

(\*ARC-TO-CHORD CORRECTION NOT APPLIED)

(Continued on Next Page)

**PILOT BUTTE**

PID: QD1681

**STATION MARKS AND REFERENCE OBJECTS**

PID	REFERENCE OBJECT	DISTANCE	GEODETIC AZIMUTH
QD1680	PILOT BUTTE USGS 1932	10.270 METERS	030 17
	PILOT BUTTE RM 1	184.670 METERS	151 40
QD1679	SCENIC PIER ARROW PIVOT S 1945	7.814 METERS	158 27
QD1678	BEND WATER TANK	APPROX. 4.0 KM	188 02 02.9
	PILOT BUTTE RM 2	127.580 METERS	247 32
QD1683	BEND BROOKS SCANLON INC TANK	APPROX. 3.5 KM	247 41 28.4
	PILOT BUTTE AZ MK		267 19 47.8
QD1687	BEND PACIFIC GAS MICROWAVE	APPROX. 4.3 KM	295 30 55.1
QD1688	BEND BONNVILLE POW ADM RD MST	APPROX. 4.3 KM	295 50 23.0
QD1685	BEND RAD STA KBND NW MAST	APPROX. 1.9 KM	329 34 53.6
QD1686	BEND RAD STA KBND SE MAST	APPROX. 1.9 KM	331 20 53.0
QD1682	SCENIC PIER ARROW PIVOT N 1945	6.209 METERS	338 44
QD1689	BEND RAD STA KGRL MAST	APPROX. 2.1 KM	358 24 40.9

STATION MARK IS A ..... HORIZONTAL CONTROL DISK  
WITH SETTING ..... TOP OF CONCRETE MONUMENT (ROUND)  
THE MARK IS STAMPED ... PILOT BUTTE 1932

**STATION MARK HISTORY**

<u>YEAR MONUMENTED OR RECOVERED</u>	<u>CONDITION OF MARK</u>	<u>RECOVERED OR DESCRIBED BY</u>
1932	STATION MONUMENTED	COAST AND GEODETIC SURVEY
1945		COAST AND GEODETIC SURVEY (CAG)
1958	GOOD	US GEOLOGICAL SURVEY
1959		BONNEVILLE POWER ADMINISTRATION
1966	GOOD	US GEOLOGICAL SURVEY
1971		NATIONAL GEODETIC SURVEY (LDF)
1987	GOOD	NATIONAL GEODETIC SURVEY (LLR)
1989	GOOD	LOCAL SURVEYOR (INDIVIDUAL OR FIRM)

**STATION DESCRIPTION**

DESCRIBED BY COAST AND GEODETIC SURVEY 1932

STATION IS LOCATED ABOUT 1.0 MILE E OF BEND ON THE TOP OF PILOT BUTTE.

STATION MARK IS A STANDARD BRONZE DISK SET IN CONCRETE AS DESCRIBED IN NOTE 1A. REFERENCE MARKS ARE STANDARD BRONZE DISKS IN OUTCROPPING BEDROCK AS DESCRIBED IN NOTE 12A.

U.S.G.S., PILOT BUTTE IS A U.S.G.S. STANDARD DISK IN OUTCROPPING BEDROCK NNE OF STATION.

REFERENCE MARK NO.1 IS WNW OF STATION.

SCENIC PIERS ARE NW AND SE OF STATION.

WATER TANK, (AZIMUTH MARK) IS S OF STATION.

(Continued on Next Page)

## PILOT BUTTE

PID: QD1681

REFERENCE MARK NO.2 IS WSW OF STATION.

STATION IS REACHED FROM BEND BY GOING E ON THE GREENWOOD AVENUE OR BURNS HIGHWAY FOR ABOUT 3/4 MILE TO THE JUNCTION WITH THE PILOT BUTTE ROAD. TAKE THE PILOT BUTTE ROAD AND FOLLOW THE CORKSCREW ROAD TO THE TOP OF THE BUTTE AND THE STATION.

HEIGHT OF SIGNAL ABOVE STATION MARK - 1-1/2 METERS.

### STATION RECOVERY (1945)

RECOVERED BY COAST AND GEODETIC SURVEY 1945 (CAG)  
THE STATION AND ALL MARKS WERE RECOVERED AS DESCRIBED AND FOUND IN GOOD CONDITION WITH THE EXCEPTION OF REFERENCE MARK NO. 1 WHICH COULD NOT BE RECOVERED AND IS BELIEVED TO HAVE BEEN DESTROYED BY ROAD CONSTRUCTION. AN AZIMUTH MARK WAS ESTABLISHED.

A COMPLETE NEW DESCRIPTION FOLLOWS.

THE STATION IS LOCATED ABOUT 1 MILE EAST OF BEND ON THE HIGHEST PART OF PILOT BUTTE AND IS IN THE CENTER OF A TRAFFIC CIRCLE. IT IS DESCRIBED BY NOTE 1A AND IS FLUSH WITH THE SURFACE OF THE GROUND. IT IS STAMPED PILOT BUTTE 1932.

U.S.G.S. MARK IS A STANDARD DISK B.M. TABLET SET IN A SMALL LAVA BOULDER THAT IS FLUSH WITH THE GROUND SURFACE. IT IS STAMPED PILOT BUTTE 4136 1916.

REFERENCE MARK NO. 2 IS SET IN A LARGE BOULDER THAT PROJECTS ABOUT 3 FEET. IT IS ABOUT 5 FEET BELOW STATION ELEVATION. IT IS DESCRIBED BY NOTE 12C AND IS STAMPED PILOT BUTTE NO 2 1932.

SCENIC PIER, ARROW PIVOT, NORTH. IT IS A SMALL TOWER 3.5 FEET HIGH AND 2X2 FEET SQUARE. IT IS CONSTRUCTED OF ROCK AND HAS A FLAT TOP WITH A POINT IN THE CENTER FOR A ARROW PIVOT TO BE PLACED.

SCENIC PIER, ARROW PIVOT, SOUTH. IT IS A SMALL TOWER 3.5 FEET HIGH AND 2X2 FEET SQUARE. IT IS CONSTRUCTED OF ROCK AND HAS A FLAT TOP WITH A POINT IN THE CENTER FOR A ARROW PIVOT TO BE PLACED.

AZIMUTH MARK IS ABOUT 0.8 MILE WEST OF THE STATION. IT IS A STANDARD DISK CEMENTED INTO A DRILL HOLE IN A CONCRETE CURB. IT IS 141 FEET WEST OF THE CENTER OF THE INTERSECTION OF THIRD ST. AND U.S. HIGHWAY NO. 20, 125 FEET EAST OF THE NORTHEAST CORNER OF THE MISSIONARY BAPTIST CHURCH AND 28 FEET SOUTH OF THE CENTERLINE OF U.S. HIGHWAY NO. 20. IT IS STAMPED PILOT BUTTE 1945. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY NO. 97 AND U.S. HIGHWAY NO. 20. GO EAST ON U.S. HIGHWAY NO. 20, TOWARDS BURNS, FOR 0.45 MILE TO THE AZIMUTH MARK ON THE RIGHT AS DESCRIBED.

TO REACH FROM THE JUNCTION OF U.S. HIGHWAY NO. 97 AND U.S. HIGHWAY NO. 20 IN BEND, GO EAST, TOWARDS BURNS, ON U.S. HIGHWAY NO. 20 FOR 1.7 MILES TO A ROAD FORKS. TURN LEFT ON TO PILOT BUTTE ROAD AND CONTINUE 1.1 MILES TO TOP OF BUTTE AND THE STATION AS DESCRIBED.

(Continued on Next Page)



## PILOT BUTTE

PID: QD1681

### STATION RECOVERY (1958)

RECOVERED BY US GEOLOGICAL SURVEY 1958  
RECOVERED AS DESCRIBED BY NGS. RMS NOT OBSERVED.

### STATION RECOVERY (1959)

RECOVERED BY BONNEVILLE POWER ADMINISTRATION 1959  
STATION RECOVERED AS DESCRIBED. THE HIGHWAY IS NOW UNITED STATES  
HIGHWAY NO. 20.

### STATION RECOVERY (1966)

RECOVERED BY US GEOLOGICAL SURVEY 1966  
RECOVERED AS DESCRIBED BY NGS. RMS NOT OBSERVED.

### STATION RECOVERY (1971)

RECOVERED BY NATIONAL GEODETIC SURVEY 1971 (LDF)  
STATION MARK, REFERENCE MARKS 1,2 AND THE AZIMUTH MARK WERE  
RECOVERED AND FOUND IN GOOD CONDITION. SCENIC PIER ARROW PIVOT  
NORTH WAS RECOVERED IN GOOD CONDITION BUT SCENIC PIER ARROW PIVOT  
SOUTH HAD BEEN REMOVED. A SLIGHT DIFFERENCE WAS NOTED IN THE  
DISTANCE AND DIRECTION TO BOTH REFERENCE MARKS AND A NOTICEABLE  
DIFFERENCE WAS NOTED IN THE DIRECTION TO THE AZIMUTH MARK AND  
WAS CHECKED IN THE FIELD.

FOLLOWING IS A NEW AND COMPLETE DESCRIPTION--

STATION IS LOCATED ABOUT 1 MILE EAST OF BEND AND IS ON THE HIGHEST  
POINT OF WHAT IS LOCALLY KNOWN AS PILOT BUTTE.

TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAYS 97 AND 20  
IN BEND, (THE AZIMUTH MARK IS LOCATED AT THIS JUNCTION) GO EAST ON  
U.S. HIGHWAY 20 FOR 0.75 MILE TO A FORK AND SIGN PILOT BUTTE STATE  
PARK. TAKE THE LEFT FORK AND GO EAST UP WINDING PAVED ROAD FOR  
1.0 MILE TO THE HIGHEST POINT AND THE STATION.

STATION MARK IS A STANDARD DISK, STAMPED PILOT BUTTE 1932, SET IN  
THE TOP OF A 12-INCH SQUARE CONCRETE MONUMENT WHICH PROJECTS ABOUT  
2 INCHES ABOVE THE SURFACE OF THE GROUND. IT IS IN THE CENTER OF  
A TRAFFIC CIRCLE AND IS 59 FEET NORTH OF A SET OF ROCK STEPS  
LEADING TO THE TOP OF THE HILL, 24.5 FEET NORTHWEST OF A ROCK  
MONUMENT AND 19 FEET EAST-SOUTHEAST OF A ROCK MONUMENT.

REFERENCE MARK 1 IS A STANDARD DISK, STAMPED PILOT BUTTE NO 1  
1932, CEMENTED IN A DRILL HOLE IN THE TOP OF A 1 X 2 FOOT OUTCROP  
WHICH PROJECTS ABOUT 2 INCHES ABOVE THE SURFACE OF THE GROUND. IT  
IS 93 FEET EAST-SOUTHEAST OF THE APPROXIMATE CENTER OF THE CIRCLE  
DRIVE ROAD AND 41 FEET WEST OF THE CENTER OF THE PAVED ROAD  
LEADING UP THE HILL.

(Continued on Next Page)

## PILOT BUTTE

PID: QD1681

REFERENCE MARK 2 IS A STANDARD DISK, STAMPED PILOT BUTTE NO 2 1932, CEMENTED IN A DRILL HOLE IN THE TOP OF A LARGE BOULDER WHICH PROJECTS ABOUT 2-1/2 FEET ABOVE THE SURFACE OF THE GROUND. IT IS 88 FEET SOUTHWEST OF THE ROCK STEPS AND 47 FEET SOUTHWEST OF THE APPROXIMATE CENTER OF THE ROAD CIRCLING THE TOP OF THE HILL.

SCENIC PIER ARROW PIVOT NORTH IS A PUNCH HOLE IN THE TOP OF A ROUND METAL PLATE FASTENED TO THE TOP OF A ROCK AND CONCRETE MONUMENT WHICH PROJECTS ABOUT 3-1/2 FEET. IT IS ON THE HIGHEST PART OF THE HILL.

AZIMUTH MARK IS A STANDARD DISK, STAMPED PILOT BUTTE 1945, CEMENTED IN A DRILL HOLE IN THE SOUTH CURB OF U.S. HIGHWAY 20 (BUSINESS). IT IS 145 FEET WEST OF THE CENTER OF THIRD STREET, 125 FEET EAST OF THE NORTHEAST CORNER OF A CHURCH AND 28 FEET SOUTH OF THE CENTER OF THE ROAD.

STATION IS IN THE NORTHWEST 1/4 OF SECTION 34, T 17 S, R 12 E.

HEIGHT OF LIGHT ABOVE STATION MARK 30 FEET.

AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN  
1 MILE EAST OF BEND.

### STATION RECOVERY (1987)

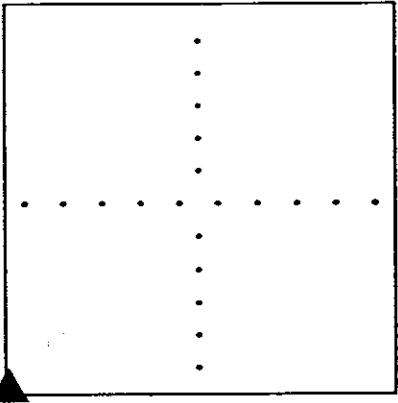
RECOVERED BY NATIONAL GEODETIC SURVEY 1987 (LLR)  
THE STATION WAS RECOVERED AT THIS DATE.  
NONE OF THE OTHER MARKS WERE SEARCHED FOR AT THIS DATE. THE 1971 RECOVERY NOTE IS ADEQUATE FOR RECOVERY.

### STATION RECOVERY (1989)

RECOVERED BY LOCAL SURVEYOR (INDIVIDUAL OR FIRM) 1989  
TEXT WAS SUPERSEDED BY LATER RECOVERY.  
STATION IS LOCATED ABOUT 3.2 KM (2.00 MI) EAST OF DOWNTOWN BEND ON THE TOP OF PILOT BUTTE. OWNERSHIP--PILOT BUTTE STATE PARK, DISTRICT MANAGER--STEVE WEINMEYER, 62796 O B RILEY RD, BEND OR 97701, PHONE 503-388-6055.  
TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 20 AND U.S. HIGHWAY 97, IN BEND, GO EAST ON U.S. HIGHWAY 20 FOR 0.72 KM (0.45 MI) TO N.E. 8TH STREET. CONTINUE AHEAD, EAST, FOR 0.48 KM (0.30 MI) ON U.S. HIGHWAY 20 TO THE ENTRANCE OF PILOT BUTTE STATE PARK ON THE LEFT. TURN LEFT AND FOLLOW PARK ROAD PAST GATE (GATE MAYBE LOCKED BY HIGHWAY DEPARTMENT DURING WINTER MONTHS) GOING UPHILL, CIRCLING BUTTE FOR 1.8 KM (1.10 MI) TO TOP OF BUTTE AND STATION IN THE CENTER OF VIEWING AREA.  
STATION IS LOCATED 11.9 M (39.0 FT) WEST OF STONE MONUMENT PROJECTING 1.3 M (4.3 FT) ABOVE GROUND WITH PLAQUE HONORING TERRANCE FOLEY, 8.2 M (26.9 FT) NORTHWEST OF STONE MONUMENT PROJECTING 1.1 M (3.6 FT) ABOVE GROUND AND 6.1 M (20.0 FT) SOUTHEAST OF STONE MONUMENT WITH PLAQUE IDENTIFYING LOCAL MOUNTAIN PEAKS.

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**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

NAME: 17142600 GIS # 0026 ORDER C-1st. ( GPS )	HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88
<p align="center">STATION LOCATION</p>  <p align="center">T. 17 S.- R. 14 E., SEC.26</p>	----- EC CARTESIAN ----- X:           -2366562.236   METERS Y:           -3934415.386   METERS Z:           +4413842.595   METERS  ----- HEIGHT ----- ELLIPSOIDAL: 1010.726   METERS NGVD 29       : 1030.162   METERS NAVD 88       : 1031.309   METERS ---- SPC -- OREGON SOUTH ---- NORTH: 266358.002±.004 METERS EAST: 1457773.371±.004 METERS  SCALE FACTOR: 1.000016675 CONVERGENCE: - 0° 21' 38.04 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

**SURFACE MARKER:**  
 MARK IS STAMPED       - T 17 S R 14 S 27|26 34|35 1988 LS 1031  
 AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE  
 THE STATION IS LOCATED ABOUT 13.7 MILES EASTERLY OF BEND.

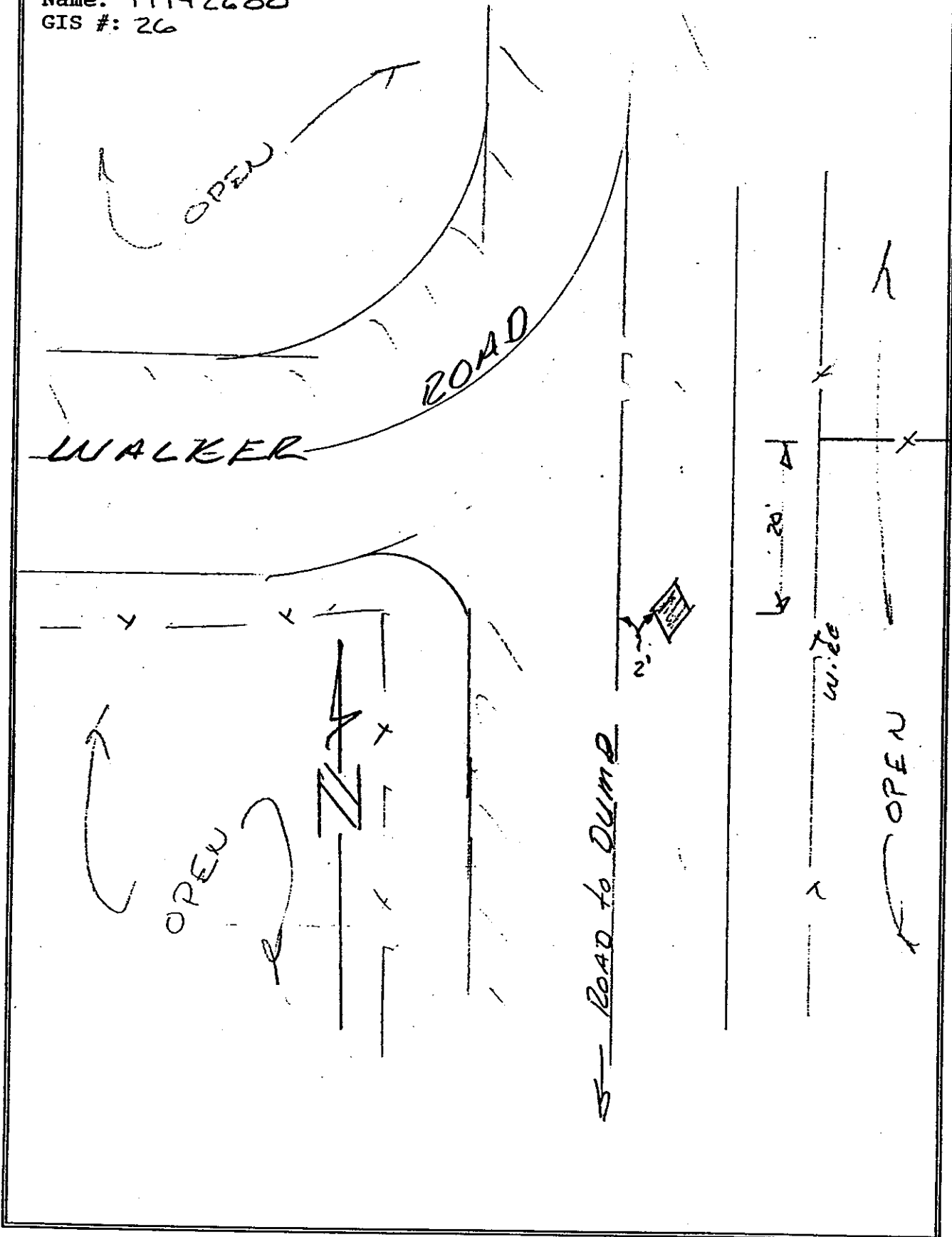
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 4.25 MI., TURN LEFT ON POWELL BUTTE HWY & PROCEED NORTEAST FOR 0.6 MI., TURN RIGHT ON ALFALFA MARKET RD. & PROCEED EASTERLY FOR 9.40 MILES, TURN RIGHT ON RIGHT ON WALKER ROAD AND PROCEED SOUTH FOR 1.0 MILES TO THE STATION IN A WATER VALVE BOX IN THE CENTER OF THE PAVED ROAD.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK ON AN IRON PIPE IN A MASS OF CONCRETE 1.2 FEET BELOW ROAD SURFACE IN A WATER VALVE BOX. 9 FEET WEST OF THE EAST EDGE OF PAVEMENT.

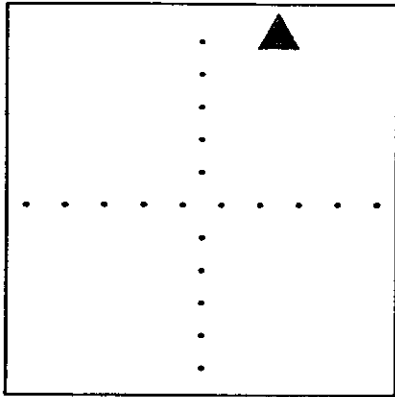
Location and reference sketch:

Name: 17142600

GIS #: 26



**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

<p>NAME: E 30 RESET 1969 GIS # 0030 ORDER C-1st. ( GPS )</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 &amp; NAVD 88</p>
<p align="center">STATION LOCATION</p>  <p align="center">T. 16 S.- R. 12 E., SEC.26</p>	<p>LATITUDE: 44° 09' 44.11872" N LONGITUDE: 121° 15' 05.57057" W</p> <p>----- EC CARTESIAN ----- X: -2377973.905 METERS Y: -3918541.092 METERS Z: +4421724.853 METERS</p> <p>----- HEIGHT ----- ELLIPSOIDAL: 979.148 METERS NGVD 29 : 998.970 METERS NAVD 88 : 1000.107 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 277502.617±.003 METERS EAST: 1439883.846±.003 METERS</p> <p>SCALE FACTOR: 1.000045293 CONVERGENCE: - 0° 30' 51.01 "</p>

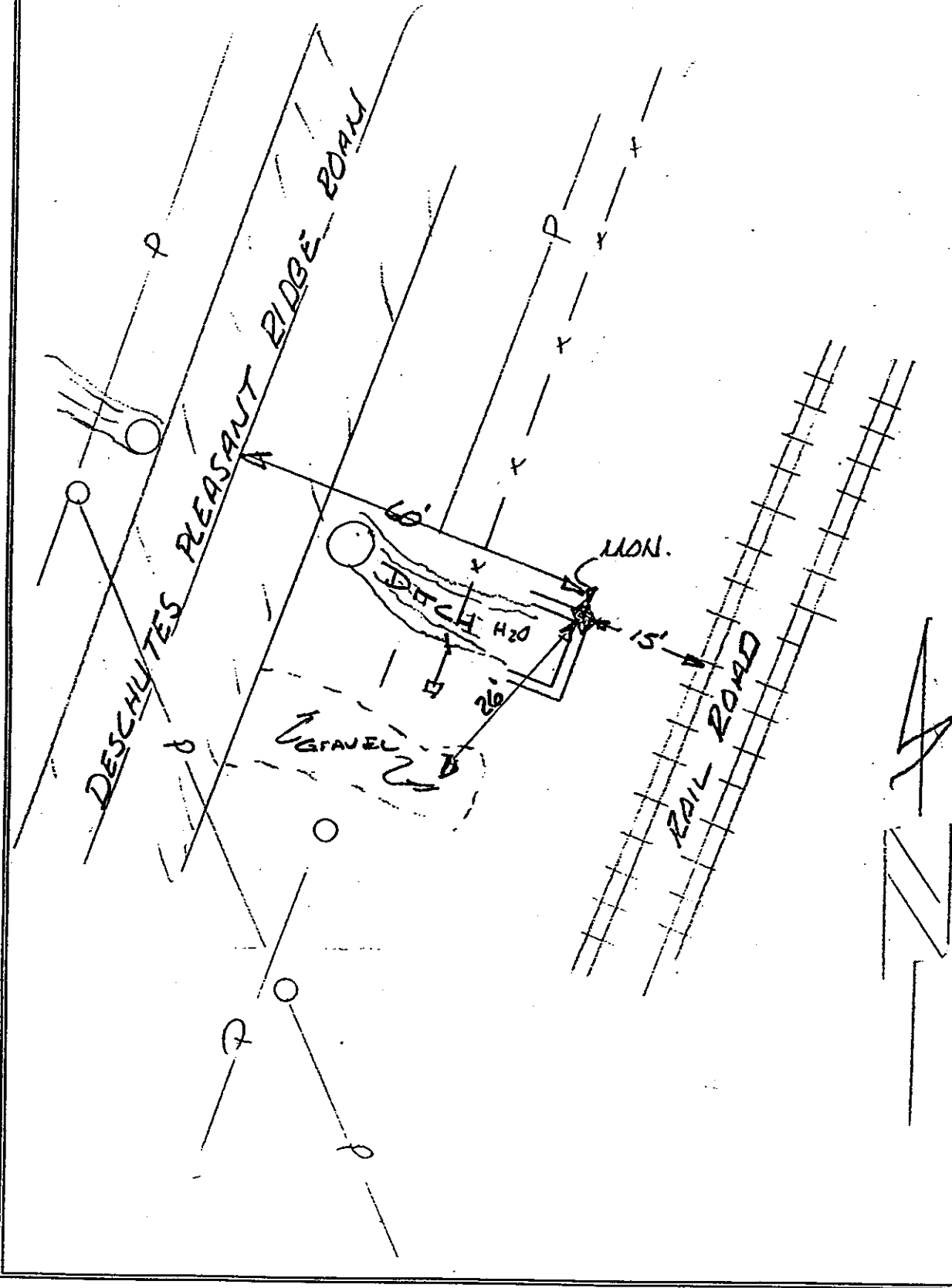
The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

**SURFACE MARKER:**  
MARK IS STAMPED - E 30 RESET 1969  
AGENCY INSCRIPTION - US COST & GEODITIC SURVEY  
THE STATION IS LOCATED ABOUT 7.8 MILES NORTHERLY OF BEND.

TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED NORTH ON HWY 97 FOR 7.47 MI., TURN RIGHT AT DESCHUTES JUNCTION AND PROCEED EAST FOR 0.24 MI., TURN LEFT ON PLEASANT RIDGE ROAD AND PROCEED NORTH FOR 0.27 FEET TO THE STATION ON THE RIGHT WHERE A IRRIGATION DITCH PASSES UNDER THE ROAD

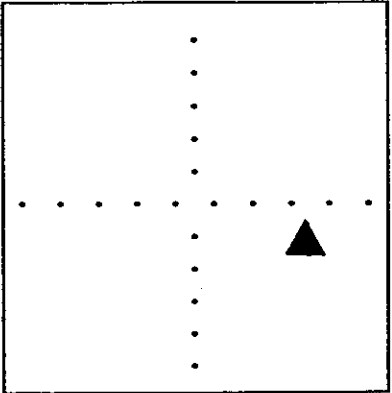
THE STATION MARK IS A 3 1/2 IN. STANDARD US GEODETIC SURVEY BRASS DISK IN GROUT IN THE NORTHEAST CORNER OF A CONCRETE IRRIGATION SIPHON HEADWALL THAT IS 16 FEET WEST OF THE CENTER OF THE WESTERLY SET OF RAILROAD TRACKS.

Location and reference sketch:  
Name: E-20 RESET 1969  
GIS #: 30



DESCHUTES COUNTY SURVEYOR'S OFFICE  
61150 S.E. 27th. St.  
Bend, Oregon. 97702  
(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

NAME: C-30 1921 GIS # 0034 ORDER C-1st. ( GPS )	HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88
<b>STATION LOCATION</b>  	LATITUDE: 44° 06' 53.97704" N LONGITUDE: 121° 17' 27.31060" W
T. 17 S.- R. 12 E., SEC.09	----- EC CARTESIAN ----- X: -2382584.114 METERS Y: -3920061.842 METERS Z: +4417989.709 METERS  ----- HEIGHT ----- ELLIPSOIDAL: 1028.261 METERS NGVD 29 : 1048.013 METERS NAVD 88 : 1049.170 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 272280.186±.003 METERS EAST: 1436684.962±.003 METERS  SCALE FACTOR: 1.000031262 CONVERGENCE: - 0° 32' 27.98 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

**SURFACE MARKER:**  
 MARK IS STAMPED - C 30 1921 ELEV. 3438.349  
 AGENCY INSCRIPTION - US COST & GEODITIC SURVEY  
 THE STATION IS LOCATED ABOUT 4.0 MILES NORTH OF BEND.

TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED NORTH ON HWY 97 FOR 4.00 MI., TURN RIGHT ON A DIRT ACCESS RD. LEADS TO RAILROAD CROSSING, PROCEED EAST FOR 144 FEET, WALK SOUTH 70 FEET TO THE STATION.

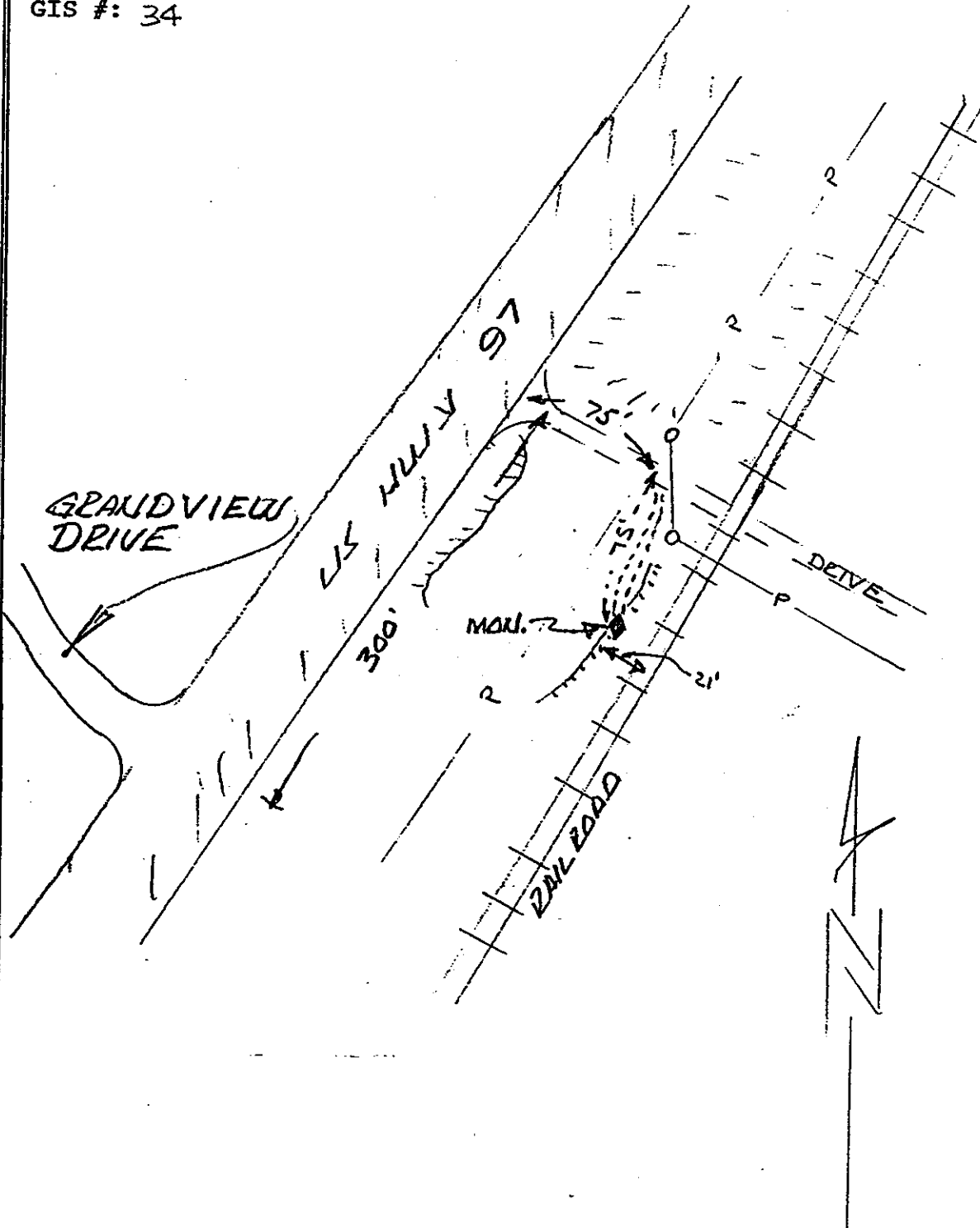
THE STATION MARK IS A 3 1/2 IN. STANDARD US GEODETIC SURVEY BRASS DISK IN GROUT IN A ROCK LEDGE, 2 FEET ABOVE RAILROAD GRADE. 1 FOOT NORTH OF A WITNESS POST. 25 FEET WEST OF THE CENTER OF RAILROAD TRACKS.



Location and reference sketch:

Name: C-30 1921

GIS #: 34



DESCHUTES COUNTY SURVEYOR'S OFFICE  
61150 S.E. 27th. St.  
Bend, Oregon. 97702  
(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

<p>NAME: GIS 0040 GIS # 0040 ORDER C-1st. ( GPS )</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 &amp; NAVD 88</p> <hr/> <p>LATITUDE: 43° 59' 56.97572" N LONGITUDE: 121° 06' 58.29775" W</p> <p>----- EC CARTESIAN -----</p> <p>X: -2375262.167 METERS Y: -3935002.092 METERS Z: +4408771.718 METERS</p> <p>----- HEIGHT -----</p> <p>ELLIPSOIDAL: 1075.734 METERS NGVD 29 : 1095.145 METERS NAVD 88 : 1096.307 METERS</p> <p>---- SPC -- OREGON SOUTH ----</p> <p>NORTH: 259292.162±.004 METERS EAST: 1450577.199±.003 METERS</p> <p>SCALE FACTOR: 0.999999787 CONVERGENCE: - 0° 25' 17.64 "</p>
<p align="center">STATION LOCATION</p> <div style="border: 1px solid black; width: 200px; height: 150px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);"> </div> </div> <p align="center">T. 18 S.- R. 13 E., SEC.24</p>	

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

**SURFACE MARKER:**  
 MARK IS STAMPED - GIS 0040 1990  
 AGENCY INSCRIPTION - NONE  
 THE STATION IS LOCATED ABOUT 10.0 MILES EASTERLY OF BEND.

TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 11.2 MI. TO THE STATION ON THE LEFT.

-----

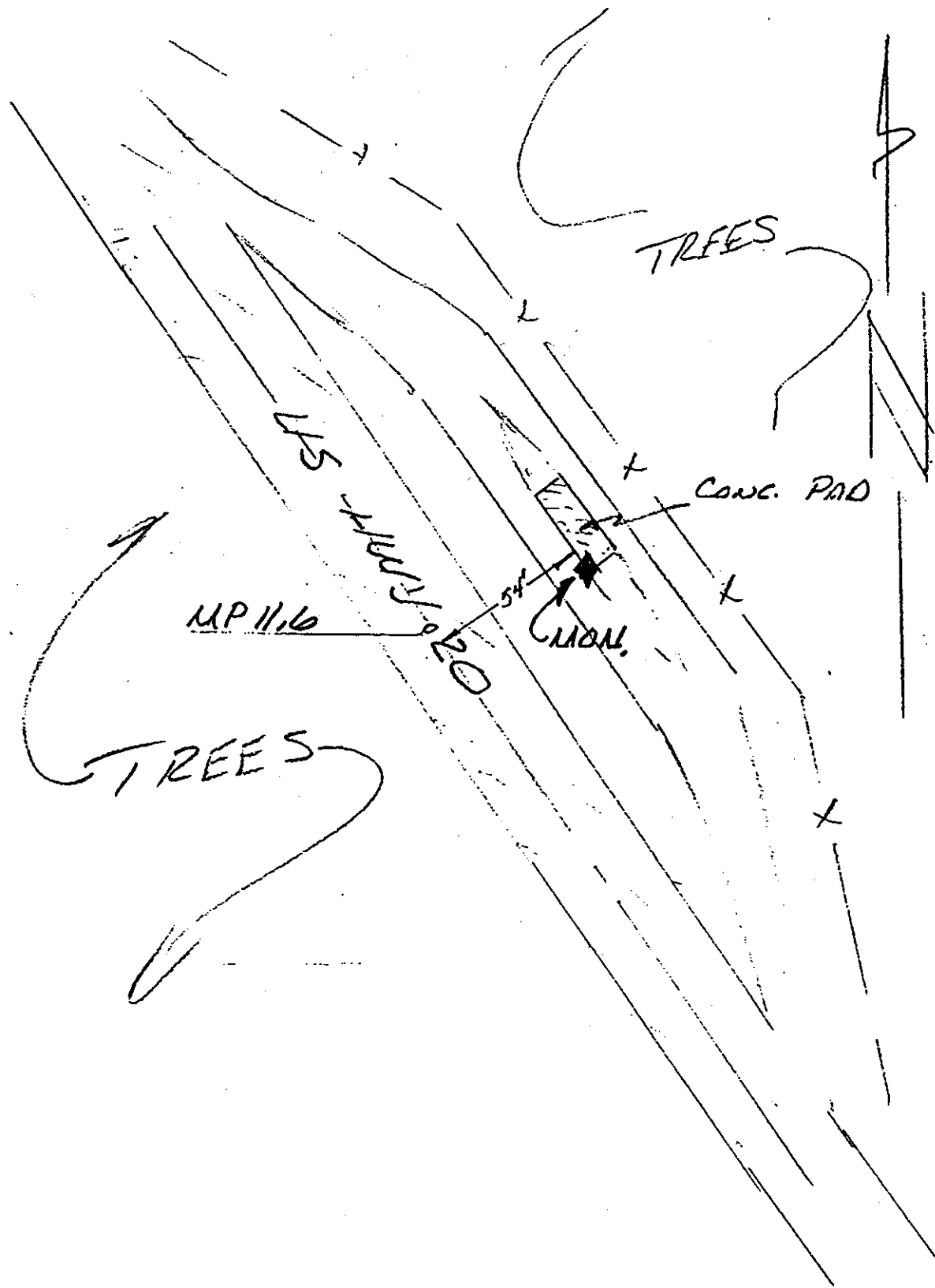
THE STATION MARK IS A 2 IN. BRASS CAP GROUTED IN CONCRETE AT THE SW CORNER OF A STATE HWY CONCRETE JUMP SCALE PAD AT GROUND LEVEL.

54 FEET NORTHEAST FROM THE CENTERLINE OF HWY 20.  
 30 FEET SOUTHWEST OF A WITNESS POST.

Location and reference sketch:

Name: GIS 40

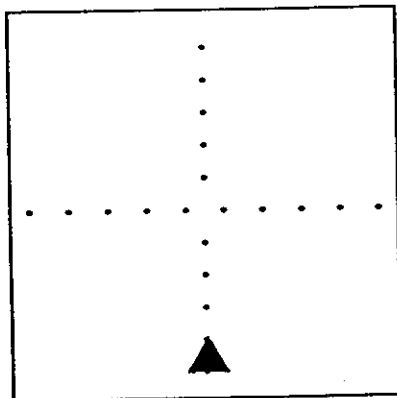
GIS #: 40



**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

NAME: GIS 0043  
GIS # 0043  
ORDER C-1st. ( GPS )

**STATION LOCATION**



T. 18 S.- R. 13 E., SEC. 3

HORIZONTAL DATUM: NAD 83 (1991)  
VERT. DATUM: NGVD 29 & NAVD 88

LATITUDE: 44° 02' 14.18867" N  
LONGITUDE: 121° 09' 11.29598" W

----- EC CARTESIAN -----  
X: -2376271.397 METERS  
Y: -3930942.789 METERS  
Z: +4411808.635 METERS

----- HEIGHT -----  
ELLIPSOIDAL: 1062.666 METERS  
NGVD 29 : 1082.159 METERS  
NAVD 88 : 1083.318 METERS  
---- SPC -- OREGON SOUTH ----  
NORTH: 263549.533±.003 METERS  
EAST: 1447647.137±.003 METERS

SCALE FACTOR: 1.000009687  
CONVERGENCE: - 0° 26' 48.63 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by GPS.

**SURFACE MARKER:**  
MARK IS STAMPED - GIS 0043 1988 LS 1031  
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE  
THE STATION IS LOCATED ABOUT 4.0 MILES EASTERLY OF BEND.

-----  
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 2.04 MI. TO THE INTERSECTION WITH 27th STREET; PROCEED EAST ON HWY 20 FOR 2.1 MI. TO THE STATION ON TRHE LEFT.

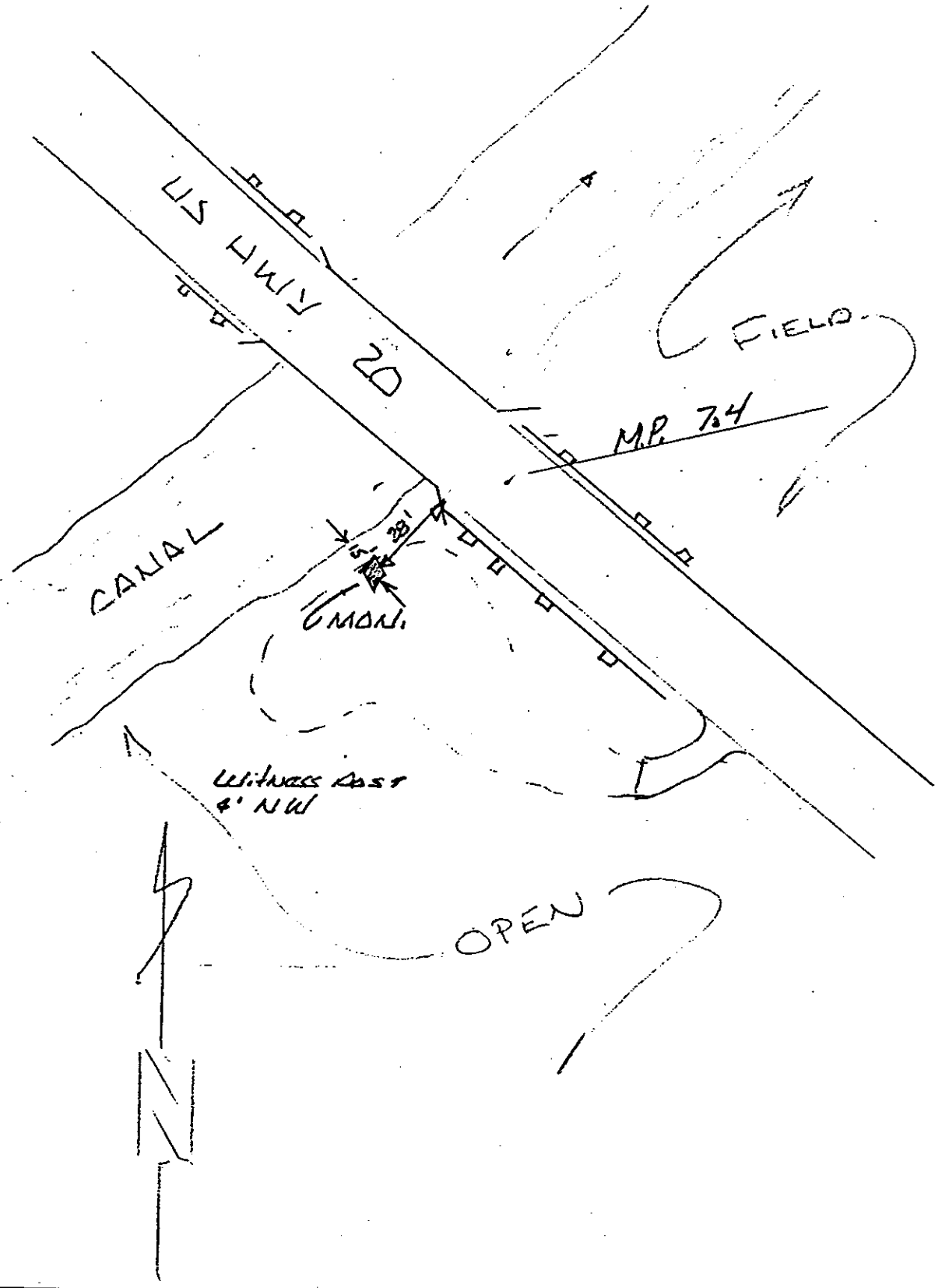
-----  
THE STATION MARK IS A 2 IN. BRASS CAP GROUTED IN A ROCK OUTCROP AT GROUND LEVEL 2 FEET ABOVE ROADWAY.  
13.0 FEET SOUTH OF A WIRE FENCE  
21 FEET NORTH FO THE NORTH EDGE OF PAVEMENT  
2 FEET NORTH OF A WITNESS POST.

DESCHUTES COUNTY SURVEYOR'S OFFICE  
61150 S.E. 27th St.  
Bend, Oregon. 97702  
(503) 383-4395

Location and reference sketch:

Name: GIS 43

GIS #: 43



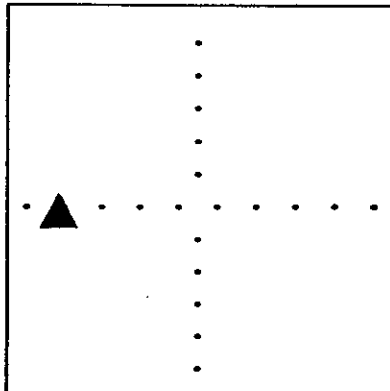
DESCHUTES COUNTY SURVEYOR'S OFFICE  
61150 S.E. 27th. St.  
Bend, Oregon. 97702  
(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

NAME: GIS 0044  
GIS # 0044  
ORDER C-1st. ( GPS )

HORIZONTAL DATUM: NAD 83 (1991)  
VERT. DATUM: NGVD 29 & NAVD 88

STATION LOCATION



LATITUDE: 44° 03' 29.05825" N  
LONGITUDE: 121° 13' 19.40628" W

----- EC CARTESIAN -----  
X: -2380168.828 METERS  
Y: -3926713.490 METERS  
Z: +4413476.698 METERS

----- HEIGHT -----  
ELLIPSOIDAL: 1072.514 METERS  
NGVD 29 : 1092.084 METERS  
NAVD 88 : 1093.258 METERS  
---- SPC -- OREGON SOUTH ----  
NORTH: 265905.664±.003 METERS  
EAST: 1442142.883±.003 METERS

T. 17 S.- R. 13 E., SEC.31

SCALE FACTOR: 1.000015278  
CONVERGENCE: - 0° 29' 38.38 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

**SURFACE MARKER:**  
MARK IS STAMPED - GIS 0044 1988 LS 1031  
AGENCY INSCRIPTION - DESCHUTES COUNTY SURVEYORS OFFICE  
THE STATION IS LOCATED ABOUT 4.0 MILES EASTERLY OF BEND.

TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 2.04 MI. TO THE INTERSECTION WITH 27th STREET; PROCEED EAST ON HWY 20 FOR 2.1 MI. TO THE STATION ON TRHE LEFT.

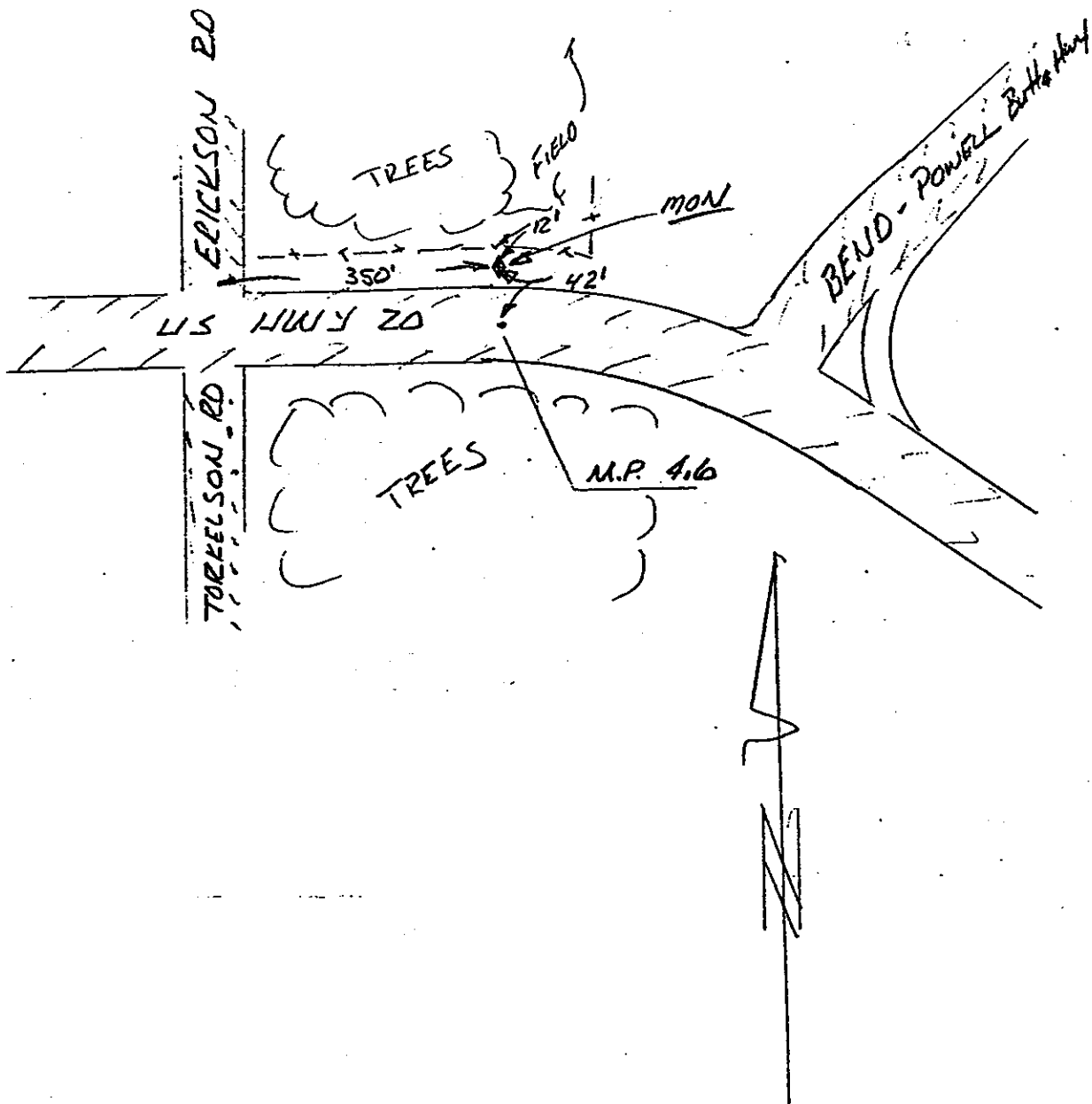
THE STATION MARK IS A 2 IN. BRASS CAP GROUTED IN A ROCK OUTCROP AT GROUND LEVEL 2 FEET ABOVE ROADWAY.  
13.0 FEET SOUTH OF A WIRE FENCE  
21 FEET NORTH FO THE NORTH EDGE OF PAVEMENT  
2 FEET NORTH OF A WITNESS POST.

DESCHUTES COUNTY SURVEYOR'S OFFICE  
61150 S.E. 27th St.  
Bend, Oregon. 97702  
(503) 383-4395

Location and reference sketch:

Name: GIS 44

GIS #: 44



**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

NAME: BEND AIRPORT GIS # 0046 ORDER C-1st. ( GPS )	HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 & NAVD 88
<p align="center">STATION LOCATION</p> <div style="border: 1px solid black; width: 150px; height: 150px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px dotted black;"></div> <div style="position: absolute; top: 10%; left: 10%; width: 10%; height: 10%; background-color: black; clip-path: polygon(50% 0%, 61% 35%, 98% 35%);"></div> </div> <p align="center">T. 17 S.- R. 13 E., SEC.20</p>	LATITUDE: 44° 05' 37.42982" N LONGITUDE: 121° 12' 11.98308" W  ----- EC CARTESIAN ----- X: -2377439.623 METERS Y: -3925104.769 METERS Z: +4416291.149 METERS  ----- HEIGHT ----- ELLIPSOIDAL: 1025.760 METERS NGVD 29 : 1045.411 METERS NAVD 88 : 1046.556 METERS ----- SPC -- OREGON SOUTH ----- NORTH: 269855.013±.003 METERS EAST: 1443676.815±.003 METERS  SCALE FACTOR: 1.000025174 CONVERGENCE: - 0° 28' 52.25 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

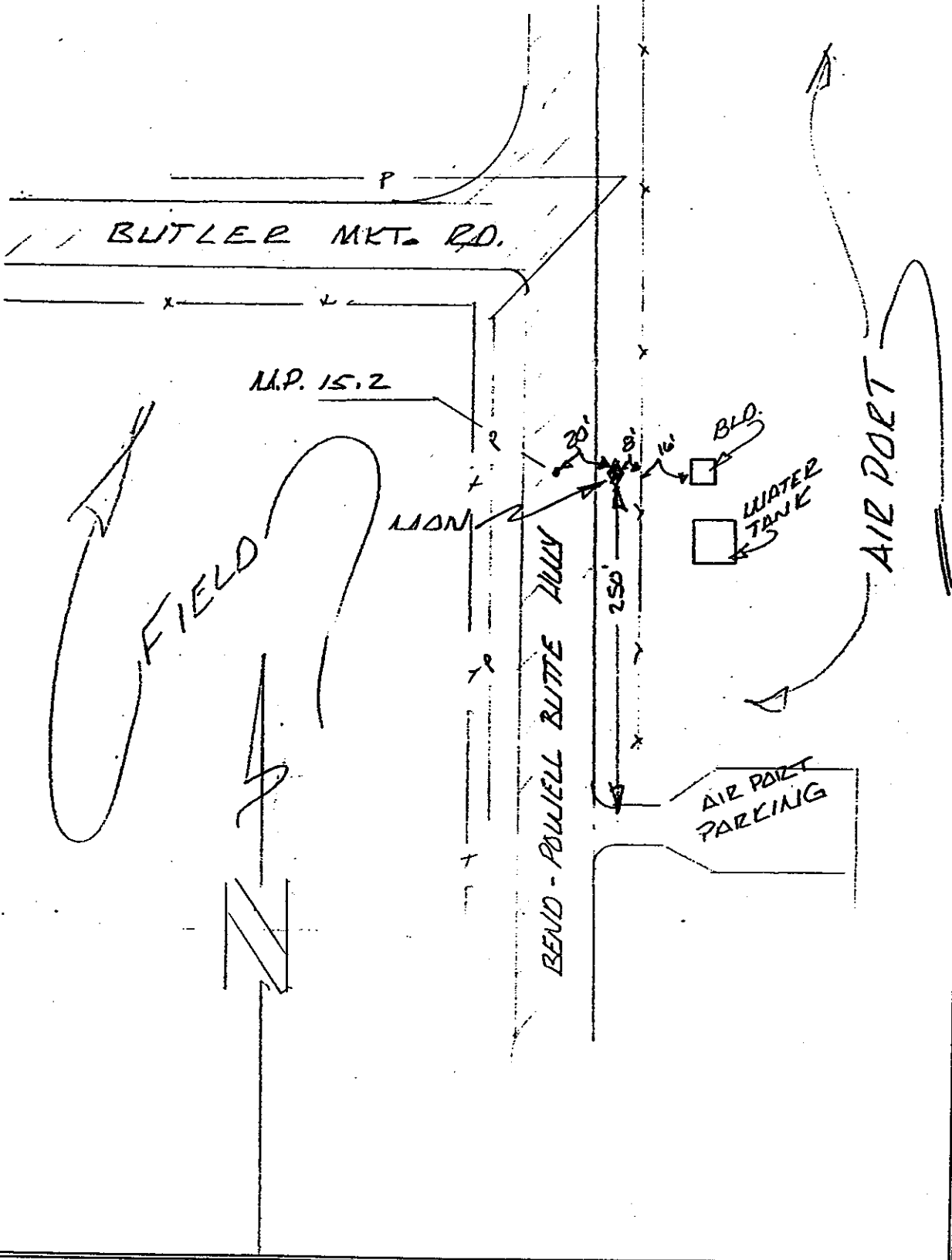
**SURFACE MARKER:**  
 MARK IS STAMPED - BEND AIRPORT 1978  
 AGENCY INSCRIPTION - DESCHUTES COUNTY CONTROL SURVEY  
 THE STATION IS LOCATED ABOUT 5.5 MILES EASTERLY OF BEND.

TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 4.35 MI. TO THE JUNCTION WITH THE POWELL BUTTE COUNTY HWY., TURN LEFT AND PROCEED ON SAID HWY FOR 2.86 MILES TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 3 IN. BRASS CAP GROUTED IN A 8 IN. PIPE IN A MASS OF CONCRETE 2 ABOVE GROUND LEVEL.  
 9.5 FEET EAST OF A WIRE FENCE  
 21 FEET WEST FO THE CENTER LINE OF THE HWY.  
 1 FEET SOUTH OF A WITNESS POST.  
 325 FEET SOUTH OF THE CENTER LINE OF BUTLER ROAD.

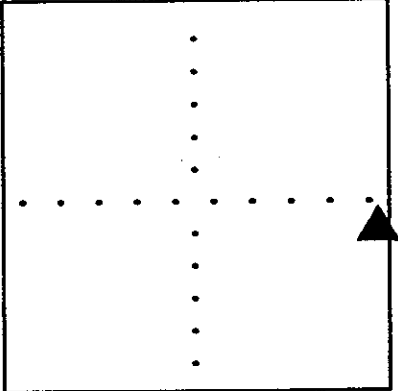


Location and reference sketch:  
Name: BEND AIRPORT 1978  
GIS #: 46



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61150 S.E. 27th. St.  
Bend, Oregon. 97702  
(503) 383-4395

**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

<p>NAME: T 463 1936 GIS # 0047 ORDER C-1st. ( GPS )</p>	<p>HORIZONTAL DATUM: NAD 83 (1991) VERT. DATUM: NGVD 29 &amp; NAVD 88</p> <hr/> <p>LATITUDE: 44° 10' 17.52483" N LONGITUDE: 121° 06' 08.35579" W</p> <hr/> <p>----- EC CARTESIAN ----- X: -2367384.984 METERS Y: -3924099.513 METERS Z: +4422457.257 METERS</p> <hr/> <p>----- HEIGHT ----- ELLIPSOIDAL: 968.632 METERS NGVD 29 : 988.231 METERS NAVD 88 : 989.356 METERS ---- SPC -- OREGON SOUTH ---- NORTH: 278437.248±.004 METERS EAST: 1451827.620±.004 METERS</p> <hr/> <p>SCALE FACTOR: 1.000048129 CONVERGENCE: - 0° 24' 43.47 "</p>
<p>STATION LOCATION</p>  <p>T. 16 S.- R. 13 E., SEC.24</p>	

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

**SURFACE MARKER:**  
MARK IS STAMPED - T 463 1936  
AGENCY INSCRIPTION - U S C & G S  
THE STATION IS LOCATED ABOUT 12.5 MILES NORTHEASTERLY OF BEND.

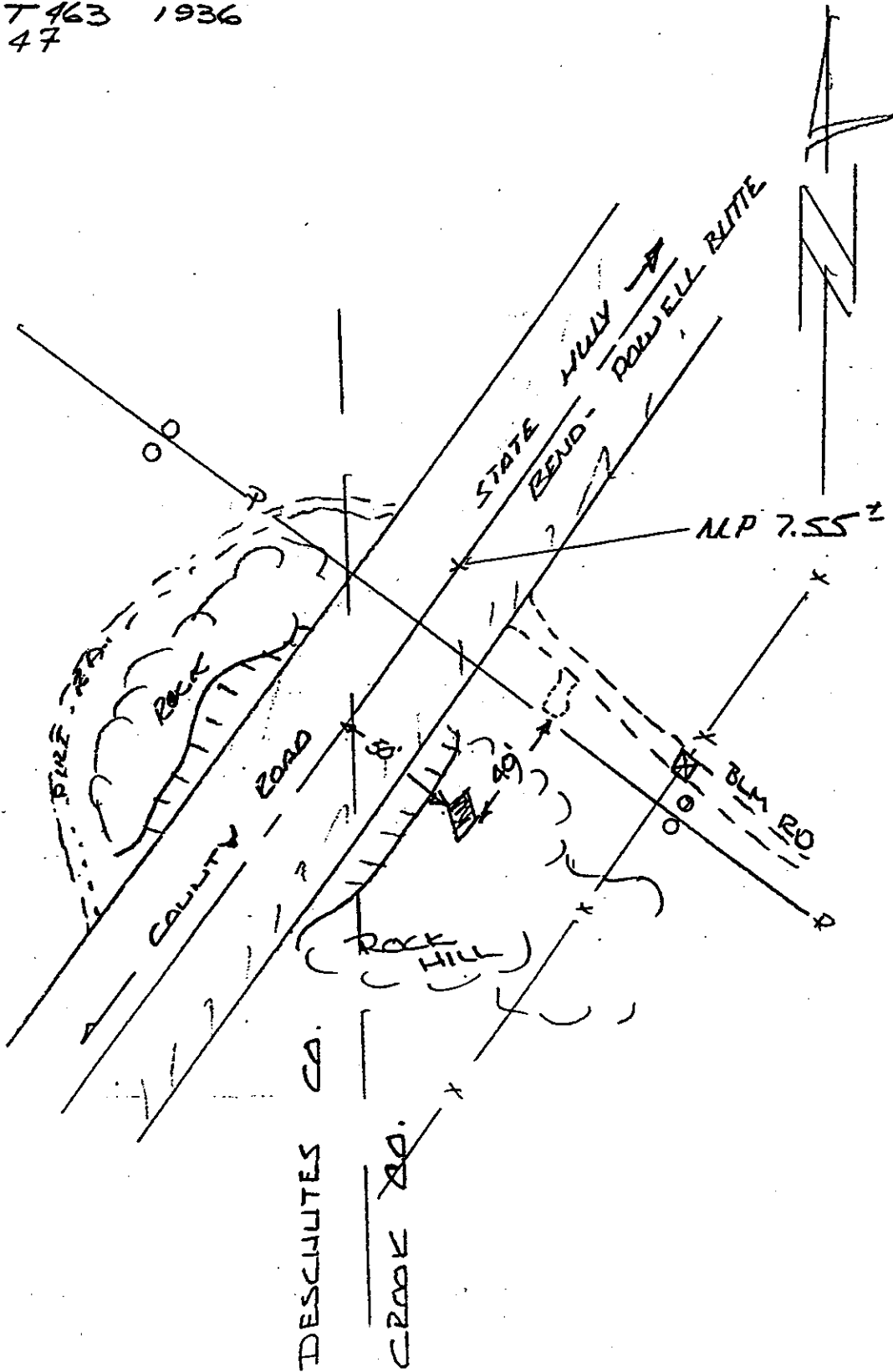
TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 4.35 MI. TO THE JUNCTION WITH THE POWELL BUTTE COUNTY HWY., TURN LEFT AND PROCEED ON SAID HWY FOR 10.50 MILES TO THE STATION ON THE RIGHT, 8 FEET ABOVE ROADWAY IN ROCK OUTCROP.

-----  
THE STATION MARK IS A 3 1/2 IN. BRASS CAP GROUTED IN ROCK AT GROUND LEVEL.  
61 FEET EAST OF A WIRE FENCE  
20 FEET WEST OF THE ROCK CUT.  
1 FEET SOUTH OF A WITNESS POST.  
100 FEET SOUTH OF A BPA POWERLINE.

Location and reference sketch:

Name: T 463 1936

GIS #: 47

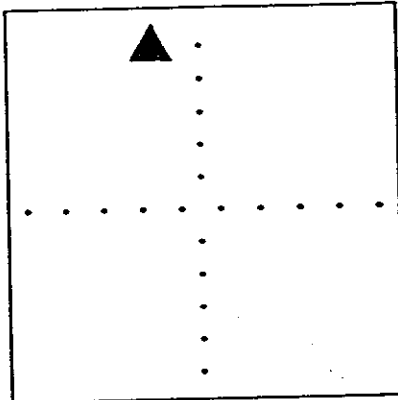


**DESCHUTES COUNTY PRIME CONTROL NETWORK  
CONTROL STATION DESCRIPTION**

NAME: STEVENS  
GIS # NONE  
ORDER C-1st. ( GPS )

HORIZONTAL DATUM: NAD 83 (1991)  
VERT. DATUM: NGVD 29 & NAVD 88

**STATION LOCATION**



T. 18 S.- R. 12 E., SEC.11

LATITUDE: 44° 02' 12.88309" N  
LONGITUDE: 121° 15' 27.11712" W

----- EC CARTESIAN -----  
X: -2383461.676 METERS  
Y: -3926659.215 METERS  
Z: +4411812.060 METERS

----- HEIGHT -----  
ELLIPSOIDAL: 1109.274 METERS  
NGVD 29 : 1128.816 METERS  
NAVD 88 : 1129.980 METERS  
---- SPC -- OREGON SOUTH ----  
NORTH: 263579.713±.003 METERS  
EAST: 1439279.126±.003 METERS

SCALE FACTOR: 1.000009591  
CONVERGENCE: - 0° 31' 05.75 "

The horizontal coordinates & ellipsoidal height was determined by GPS observations constrained by Oregon High Percision Network. Adjusted by Deschutes Co. Surveyor's Office in July 1991. The orthometric height was determined by differential leveling.

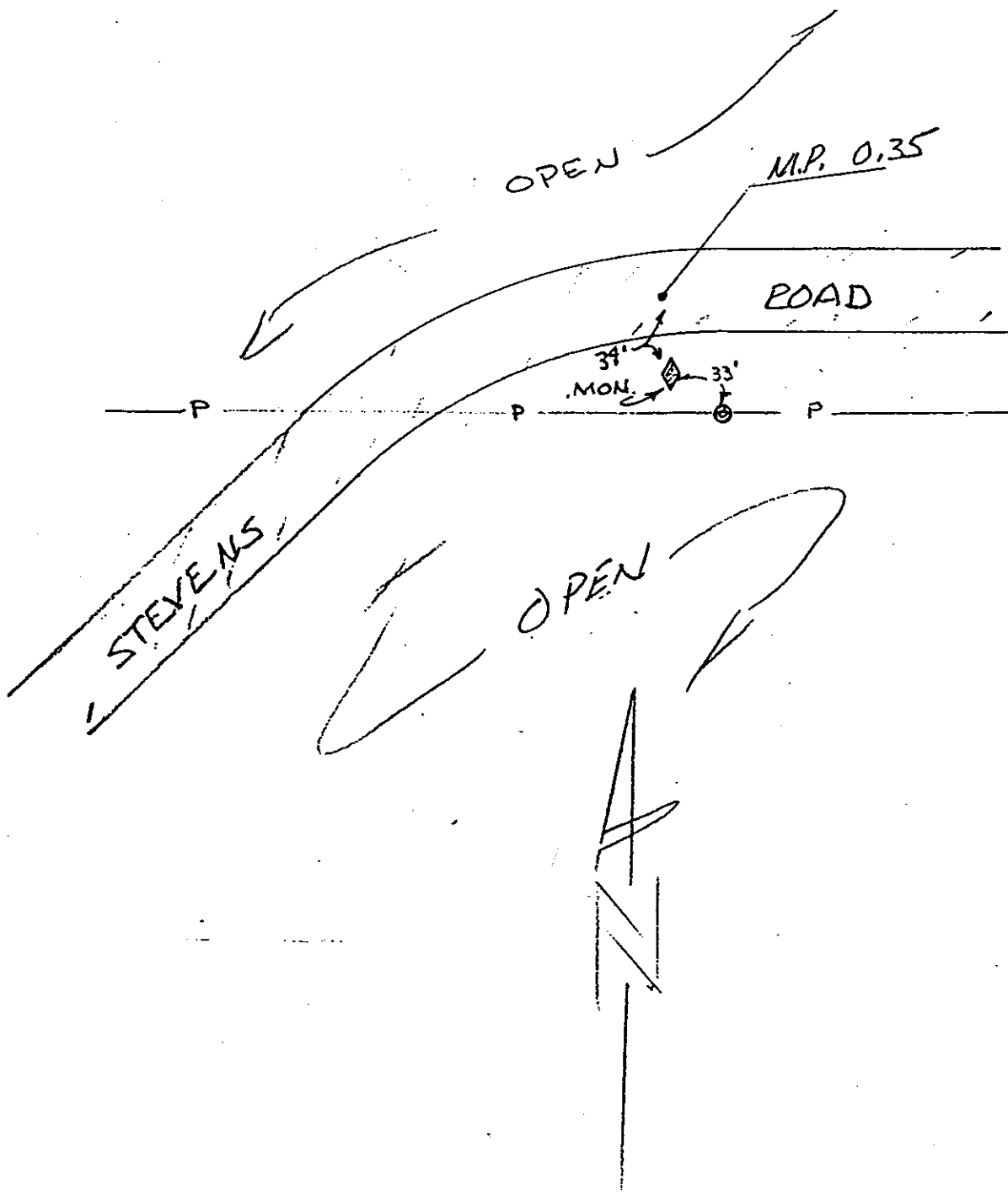
**SURFACE MARKER:**  
MARK IS STAMPED - STEVENS 1978  
AGENCY INSCRIPTION - DESCHUTES COUNTY CONTROL SURVEY  
THE STATION IS LOCATED ABOUT 2.6 MILES SOUTHEAST OF BEND

TO REACH THE STATION FROM BEND, START AT THE INTERSECTION OF US HWY 20 (GREENWOOD AV.) & US HWY 97 (3RD ST.), PROCEED EAST ON HWY 20 FOR 2.04 MI., TURN RIGHT ON SE 27TH STREET & PROCEED SOUTH FOR 1.35 MI., TURN LEFT AT STEVENS ROAD AND PROCEED FOR 0.3 MI. TO THE STATION ON THE RIGHT.

THE STATION MARK IS A 3 1/2 IN. STANDARD DESCHUTES COUNTY ALUMINUM DISK GROUTED IN BEDROCK AT GROUND LEVEL.  
27.34 FEET SOUTH OF THE SOUTH EDGE OF PAVEMENT OF STEVENS RD.  
39.6 FEET WESTERLY OF A POWER POLE.  
9.0 FEET SOUTH OF A WITNESS POST.

DESCHUTES COUNTY SURVEYOR'S OFFICE  
61150 S.E. 27th St.  
Bend, Oregon. 97702  
(503) 383-4395

Location and reference sketch:  
Name: STEVENS 1978  
GIS #: N/A



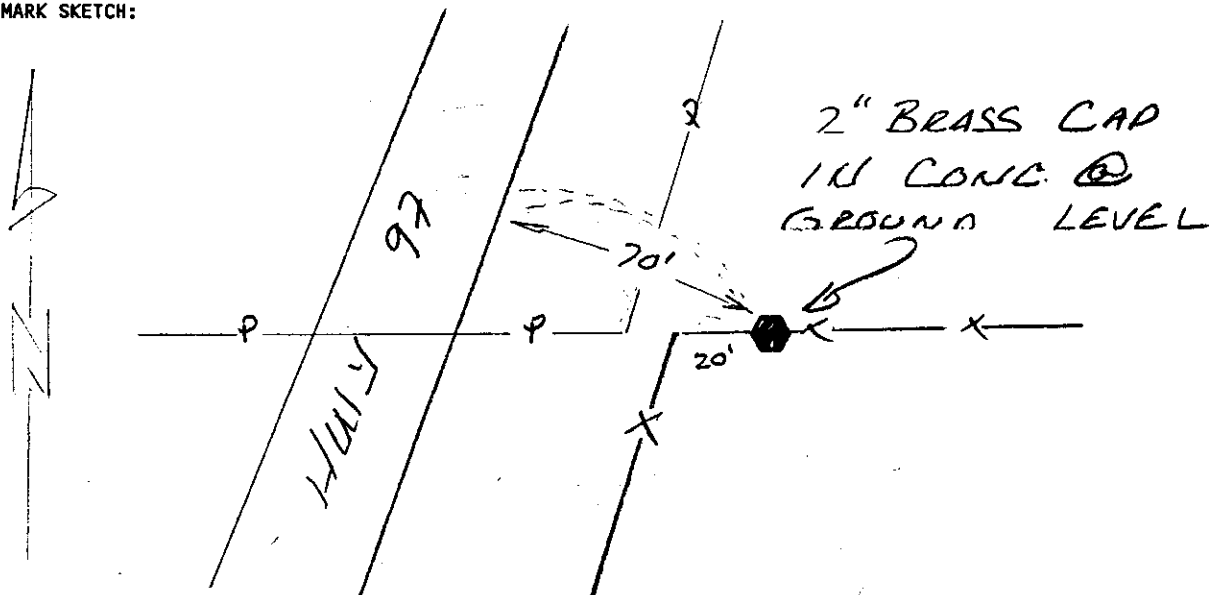
5

**ADJUSTED  
SURVEY POINTS  
IN  
DESCHUTES COUNTY  
PLANE COORDINATES**

### CONTROL MARK DATA

NAME OF MARK: 16122600 COUNTY: DESCHUTES  
 MARK SET BY: LS 0654 NORMAN NEWTON STATE: OREGON  
 DATE OF MARK: 3/15/67 COUNTRY: U.S.A.  
 LOCATION: SECTION 26 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 858

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993

FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

MARK: 16122600 HORIZONTAL ORDER: FIRST

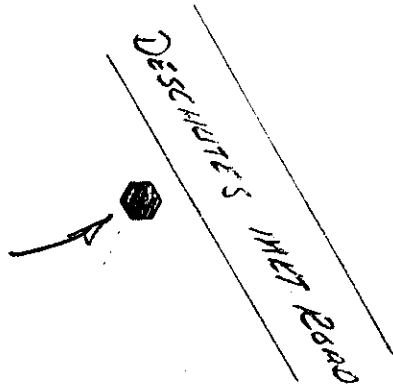
Latitude:	44°09'09.791988"	ONE
Longitude:	121°15'49.169051"	SIGMA
		ERROR
Northing:	420250.8344	0.011
Easting:	3305164.9486	0.011
Convergence:	+0°00'49.3389"	
Scale Factor:	1.000160030463	
Ellipsoid Height:	3205.9743	0.021
Orthometric Height:	3271.003	0.034
Geoid Height:	-65.0287	

## CONTROL MARK DATA

NAME OF MARK: 16122604 COUNTY: DESCHUTES  
 MARK SET BY: LS 1031 W. C. KAUFFMAN STATE: OREGON  
 DATE OF MARK: 1/20/78 COUNTRY: U.S.A.  
 LOCATION: SECTION 26 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 840

MARK SKETCH:

2" BRASS CAP  
 IN CONC., 1.5 FT.  
 BELOW GROUND  
 4' WEST OF EDGE  
 OF PAVEMENT



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

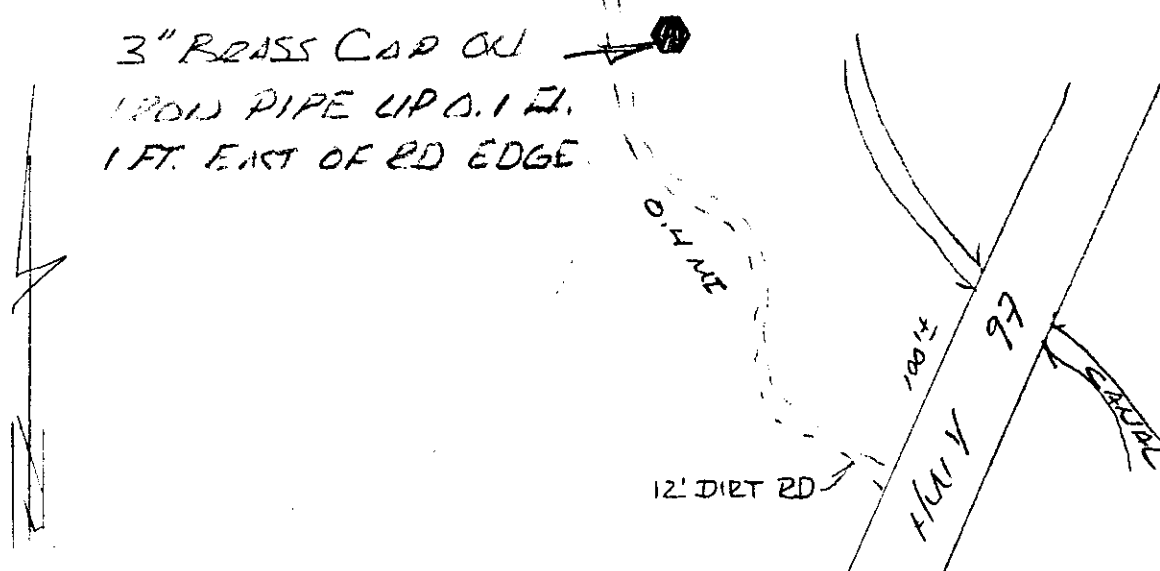
<u>MARK: 16122604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°09'09.824485"	ONE SIGMA ERROR
Longitude:	121°15'12.888232"	
Northing:	420254.9206	0.012
Easting:	3307810.5221	0.011
Convergence:	+0°01'14.6112"	
Scale Factor:	1.000160069662	
Ellipsoid Height:	3206.4917	0.020
Orthometric Height:	3271.4855	0.033
Geoid Height:	-64.9938	



## CONTROL MARK DATA

NAME OF MARK: 16123400 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1188

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

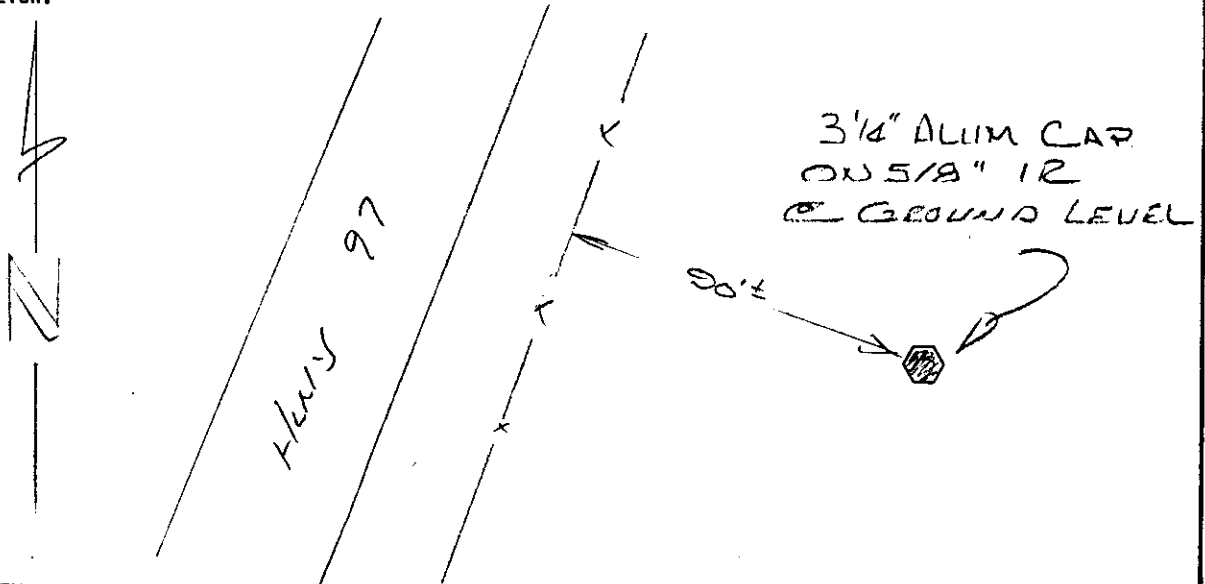
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 16123400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°08'17.463002"</u>	ONE SIGMA ERROR
Longitude:	<u>121°17'01.482564"</u>	
Northing:	<u>414950.321</u>	<u>0.015</u>
Easting:	<u>3299891.8658</u>	<u>0.013</u>
Convergence:	<u>-0°00'01.0324"</u>	
Scale Factor:	<u>1.000160000013</u>	
Ellipsoid Height:	<u>3280.0454</u>	<u>0.029</u>
Orthometric Height:	<u>3345.0343</u>	<u>0.040</u>
Geoid Height:	<u>-64.9889</u>	

## CONTROL MARK DATA

NAME OF MARK: 16123404 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 115

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

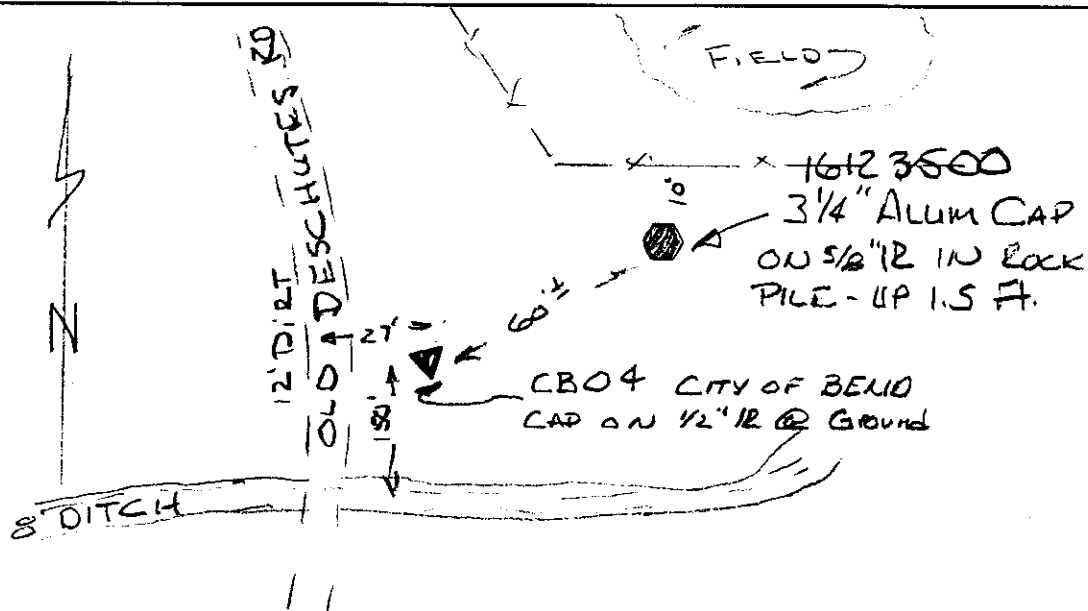
MARK: 16123404 HORIZONTAL ORDER: FIRST

Latitude:	44°08'17.514322"	ONE
Longitude:	121°16'25.179940"	SIGMA
Northing:	414955.6677	ERROR
Easting:	3302539.6796	0.020
Convergence:	+0°00'24.2484"	0.016
Scale Factor:	1.000160007365	
Ellipsoid Height:	3257.0281	0.036
Orthometric Height:	3321.9853	0.045
Geoid Height:	-64.9572	

## CONTROL MARK DATA

NAME OF MARK: 16123500 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 116

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 16123500 HORIZONTAL ORDER: SECOND

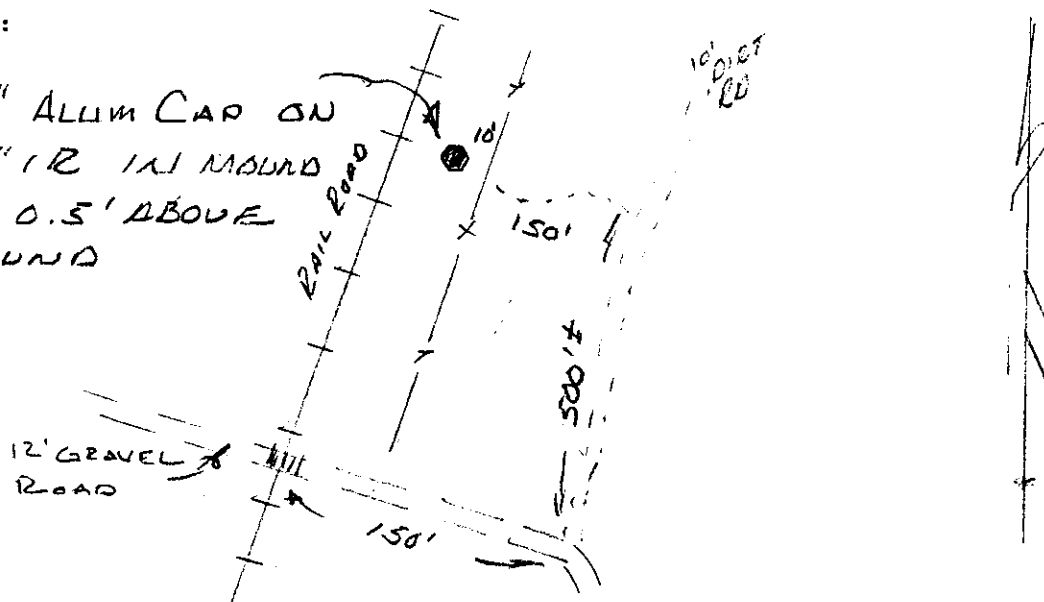
Latitude:	44°08'17.654016"	ONE
Longitude:	121°15'49.137469"	SIGMA
Northing:	414970.2849	ERROR
Easting:	3305168.5151	0.024
Convergence:	+0°00'49.3481"	0.041
Scale Factor:	1.000160030505	
Ellipsoid Height:	3248.0576	0.035
Orthometric Height:	3312.9831	0.035
Geoid Height:	-64.9255	

## CONTROL MARK DATA

NAME OF MARK: 16123540 COUNTY: DESCHUTES  
 MARK SET BY: LS 2208 GARY DEJARNATT STATE: OREGON  
 DATE OF MARK: 10/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 841

MARK SKETCH:

3 1/4" ALUM CAP ON  
 5/8" IR IN MOUND  
 UP 0.5' ABOVE  
 GROUND



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

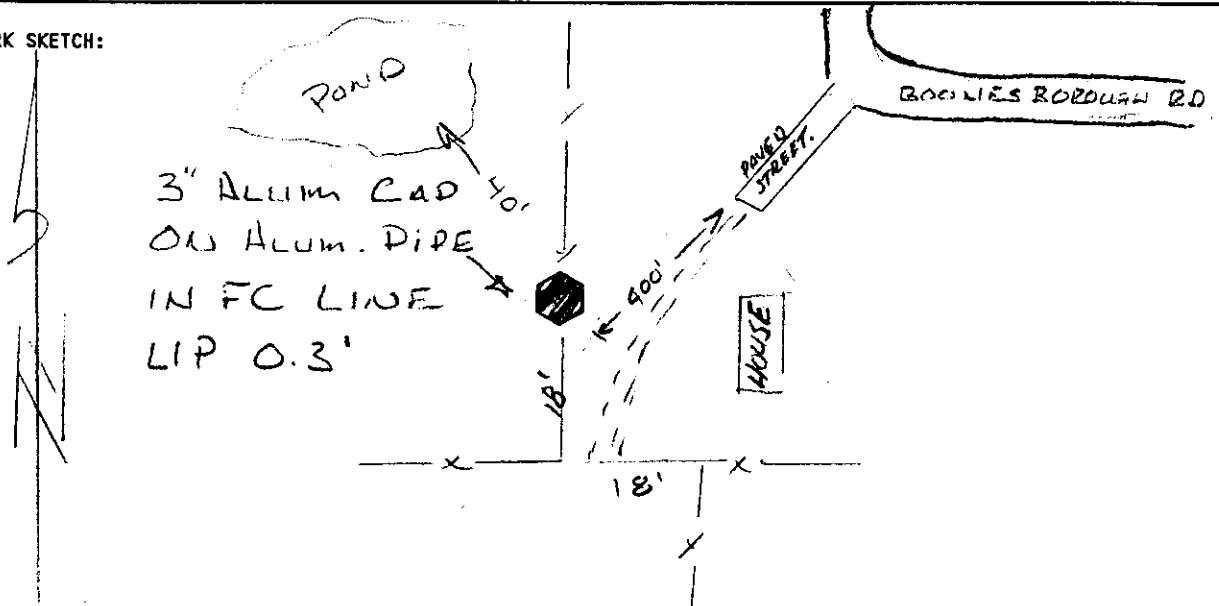
MARK: 16123540 HORIZONTAL ORDER: FIRST

Latitude:	44°08'43.724248"	ONE
Longitude:	121°15'49.156823"	SIGMA
Northing:	417610.6841	ERROR
Easting:	3305166.4719	0.013
Convergence:	+0°00'49.3410"	0.011
Scale Factor:	1.000160030481	
Ellipsoid Height:	3230.3694	0.023
Orthometric Height:	3295.3482	0.035
Geoid Height:	-64.9788	

## CONTROL MARK DATA

NAME OF MARK: 16123600 COUNTY: DESCHUTES  
 MARK SET BY: LS 0980 ED GRAVES STATE: OREGON  
 DATE OF MARK: 1990 COUNTRY: U.S.A.  
 LOCATION: SECTION 36 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 91

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

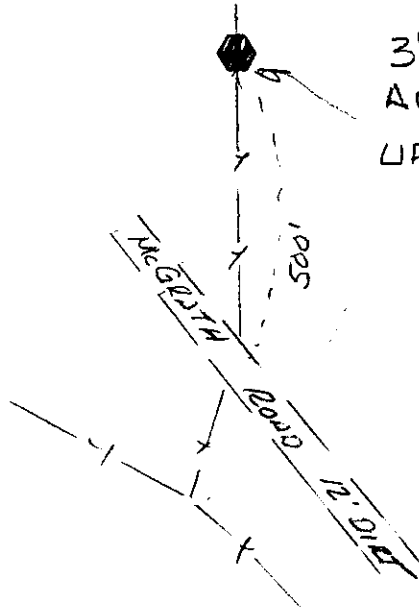
MARK: 16123600 HORIZONTAL ORDER: FIRST

Latitude:	44°08'17.831751"	ONE
Longitude:	121°14'36.583312"	SIGMA
Northing:	414990.2001	ERROR
Easting:	3310460.4038	0.013
Convergence:	+0°01'39.8743"	0.011
Scale Factor:	1.000160124949	
Ellipsoid Height:	3224.5499	0.025
Orthometric Height:	3289.412	0.036
Geoid Height:	-64.8621	

## CONTROL MARK DATA

NAME OF MARK: 16133100 COUNTY: DESCHUTES  
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 31 TOWNSHIP 16 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 93

MARK SKETCH:



3" ALUM CAP ON  
 ALUM. PIPE IN CONC.  
 UP 0.4 FT. & 1/2" FC. LINE

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

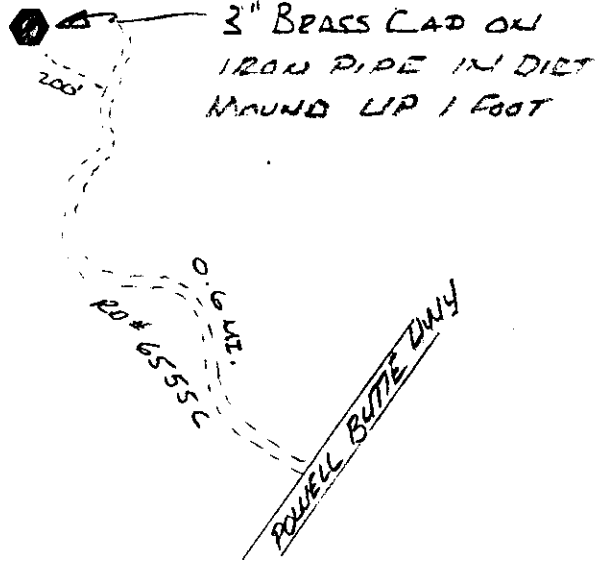
MARK: 16133100 HORIZONTAL ORDER: FIRST

Latitude:	44°08'17.402709"	ONE
Longitude:	121°13'24.292182"	SIGMA
Northing:	414949.9432	ERROR
Easting:	3315733.1442	0.017
Convergence:	+0°02'30.2170"	0.015
Scale Factor:	1.000160282661	
Ellipsoid Height:	3267.8611	0.035
Orthometric Height:	3332.6502	0.044
Geoid Height:	-64.789	

## CONTROL MARK DATA

NAME OF MARK: 16133400 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 16 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1194

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

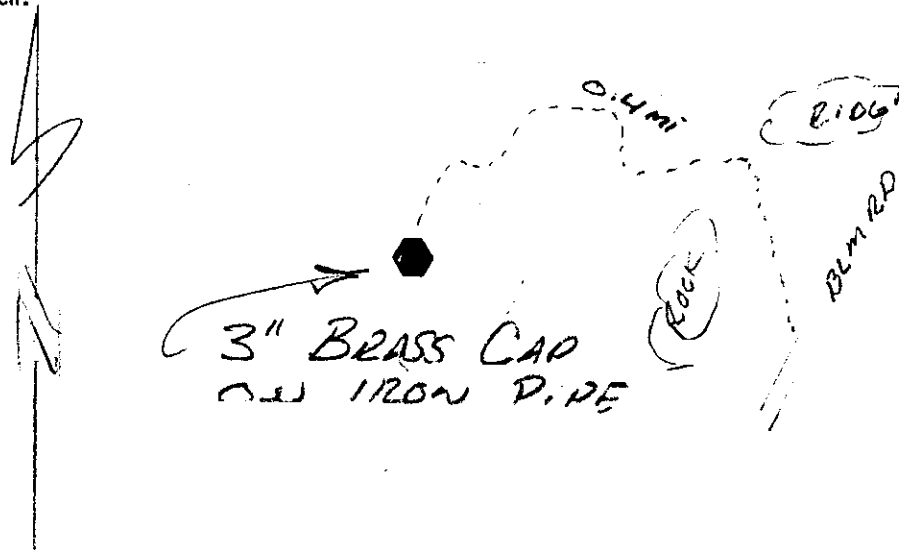
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 16133400</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°08'17.126968"</u>	ONE SIGMA ERROR
Longitude:	<u>121°09'47.412253"</u>	
Northing:	<u>414939.3278</u>	<u>0.020</u>
Easting:	<u>3331551.8204</u>	<u>0.015</u>
Convergence:	<u>+0°05'01.2500"</u>	
Scale Factor:	<u>1.000161136801</u>	
Ellipsoid Height:	<u>3268.6574</u>	<u>0.041</u>
Orthometric Height:	<u>3333.168</u>	<u>0.048</u>
Geoid Height:	<u>-64.5105</u>	

## CONTROL MARK DATA

NAME OF MARK: 16143100 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 31 TOWNSHIP 16 S. RANGE 14 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1193

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 16143100 HORIZONTAL ORDER: FIRST

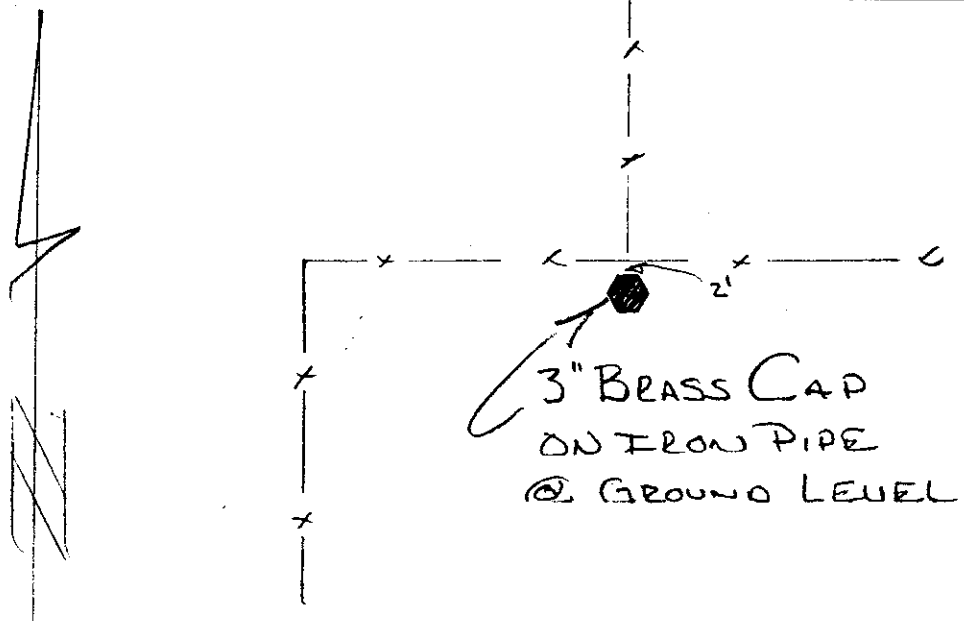
Latitude:	44°08'17.249921"	ONE
Longitude:	121°06'09.979261"	SIGMA
		ERROR
Northing:	414980.7637	0.021
Easting:	3347410.789	0.016
Convergence:	+0°07'32.6690"	
Scale Factor:	1.000162566791	
Ellipsoid Height:	3244.4849	0.043
Orthometric Height:	3308.6512	0.050
Geoid Height:	-64.1663	



## CONTROL MARK DATA

NAME OF MARK: 17120100 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 1 TOWNSHIP: 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1189

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

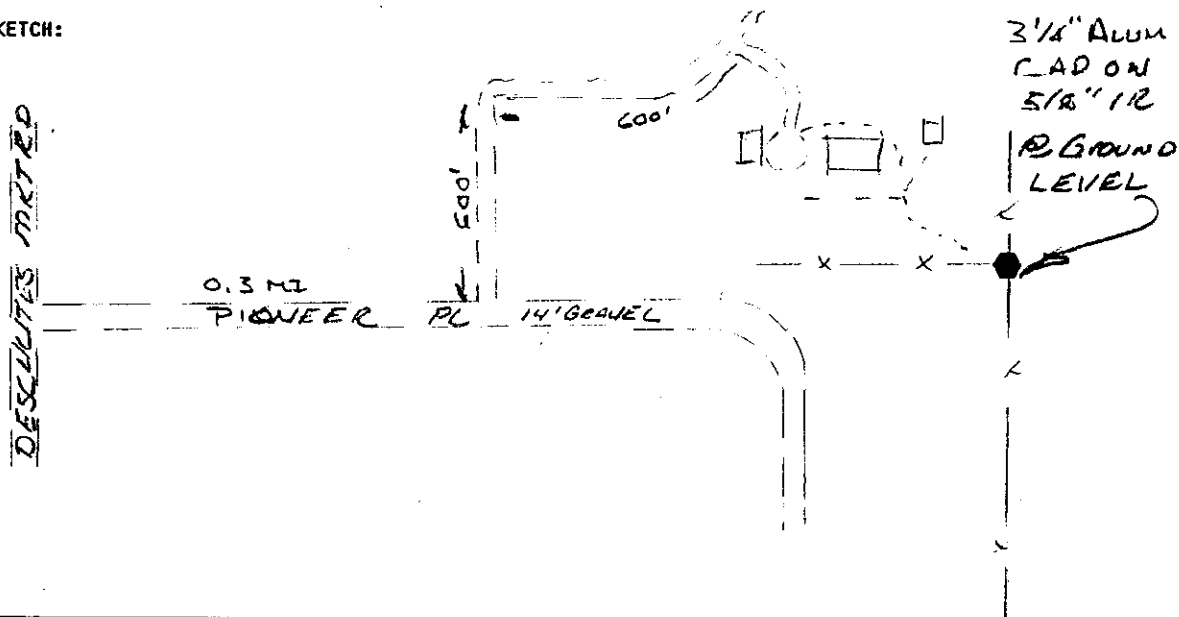
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120100</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°07'25.645051"	ONE SIGMA ERROR
Longitude:	121°14'36.350129"	
Northing:	409704.7365	0.019
Easting:	3310479.9746	0.017
Convergence:	+0°01'40.0106"	
Scale Factor:	1.000160125417	
Ellipsoid Height:	3308.2506	0.041
Orthometric Height:	3373.0029	0.049
Geoid Height:	-64.7523	

## CONTROL MARK DATA

NAME OF MARK: 17120140 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020.....GEORGE COLVIN. STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 122

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

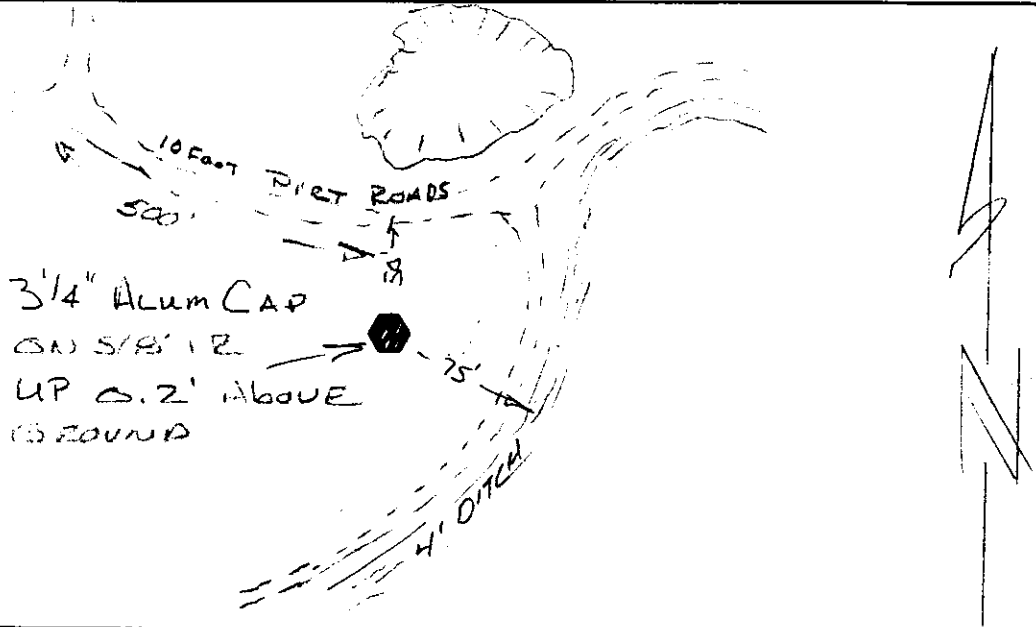
MARK: 17120140 HORIZONTAL ORDER: FIRST

Latitude:	44°07'51.703429"	ONE SIGMA ERROR
Longitude:	121°14'36.351442"	
Northing:	412343.9288	0.016
Easting:	3310478.5991	0.014
Convergence:	+0°01'40.0227"	
Scale Factor:	1.000160125384	
Ellipsoid Height:	3268.0065	0.032
Orthometric Height:	3332.8153	0.041
Geoid Height:	-64.8089	

## CONTROL MARK DATA

NAME OF MARK: 17120200 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 130

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

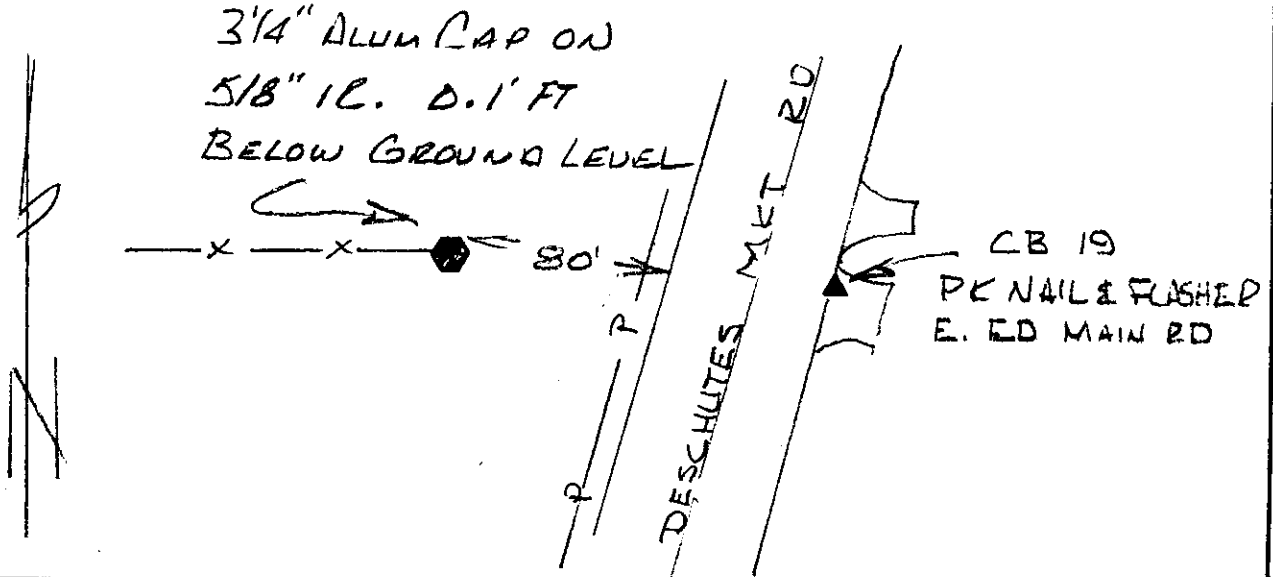
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120200</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°07'25.559331"	ONE SIGMA ERROR
Longitude:	121°15'49.677116"	
Northing:	409694.1229	0.013
Easting:	3305130.4072	0.012
Convergence:	+0°00'48.9595"	
Scale Factor:	1.000160030057	
Ellipsoid Height:	3297.1783	0.023
Orthometric Height:	3361.9908	0.034
Geoid Height:	-64.8125	

## CONTROL MARK DATA

NAME OF MARK: 17120204 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 131

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

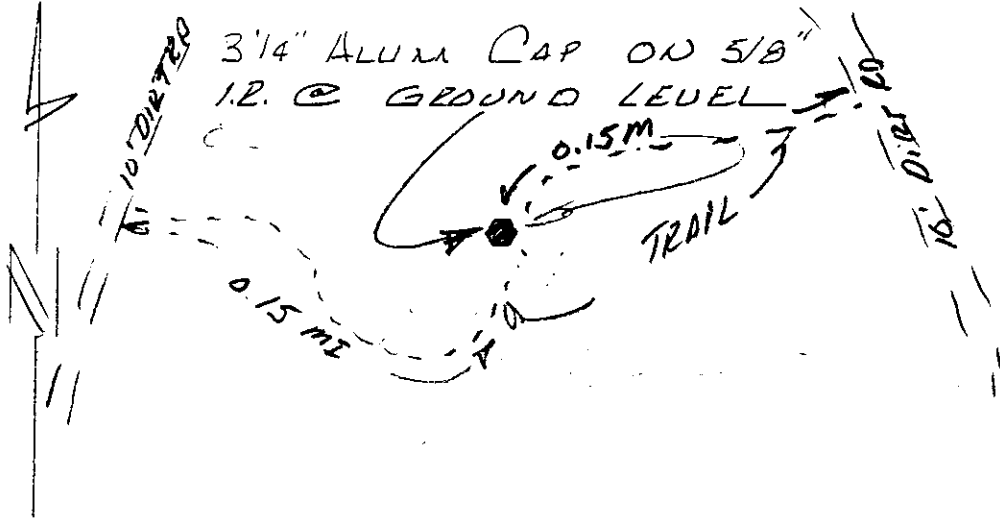
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17120204</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°07'25.620407"	ONE SIGMA ERROR
Longitude:	121°15'13.396292"	
Northing:	409701.0991	0.017
Easting:	3307777.2731	0.044
Convergence:	+0°01'14.2187"	
Scale Factor:	1.000160069070	
Ellipsoid Height:	3293.1636	0.036
Orthometric Height:	3357.9442	0.036
Geoid Height:	-64.7807	

## CONTROL MARK DATA

NAME OF MARK: 17120240 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 121

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

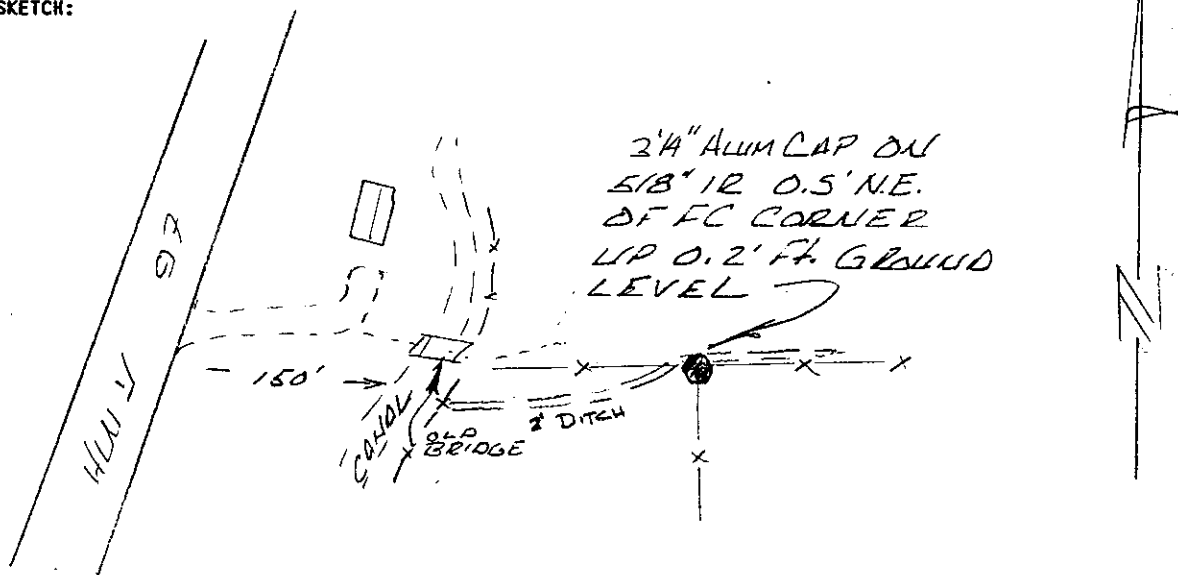
MARK: 17120240 HORIZONTAL ORDER: FIRST

	Latitude: <u>44°07'51.628024"</u>	ONE SIGMA ERROR
	Longitude: <u>121°15'49.482869"</u>	0.012
	Northing: <u>412334.3633</u>	0.010
	Easting: <u>3305143.9501</u>	0.021
	Convergence: <u>+0°00'49.1012"</u>	0.034
	Scale Factor: <u>1.000160030215</u>	
	Ellipsoid Height: <u>3255.7143</u>	-64.8723
	Orthometric Height: <u>3320.5865</u>	
	Geoid Height: <u>-64.8723</u>	

## CONTROL MARK DATA

NAME OF MARK: 17120300 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 3 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 128

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

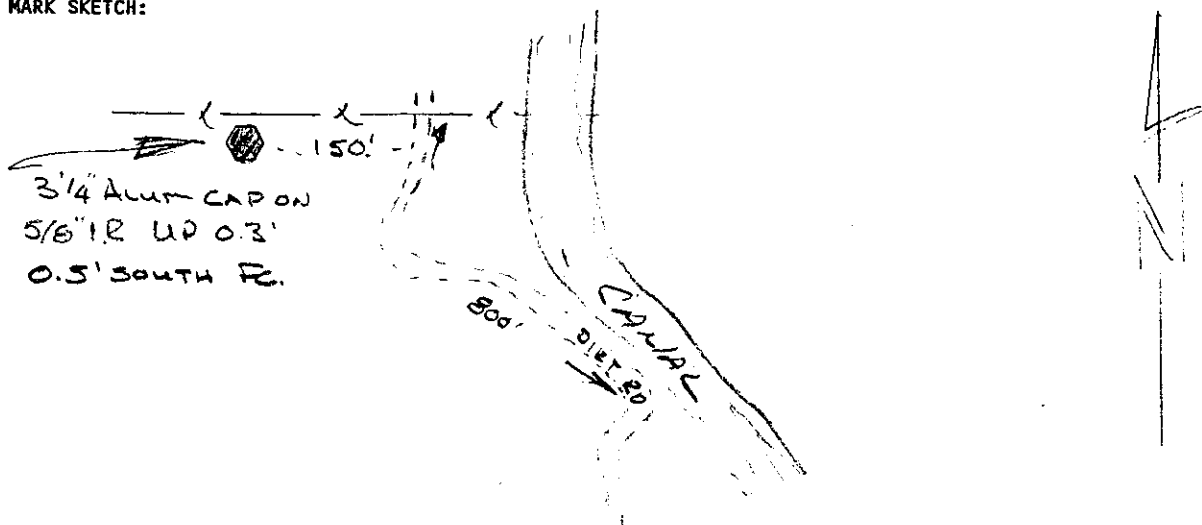
MARK: 17120300 HORIZONTAL ORDER: FIRST

Latitude:	44°07'25.326270"	ONE SIGMA ERROR
Longitude:	121°17'01.463160"	
Northing:	409669.91	0.010
Easting:	3299893.255	0.009
Convergence:	-0°00'01.0187"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3311.4293	0.019
Orthometric Height:	3376.2953	0.032
Geoid Height:	-64.866	

## CONTROL MARK DATA

NAME OF MARK: 17120304 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 3 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 129

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

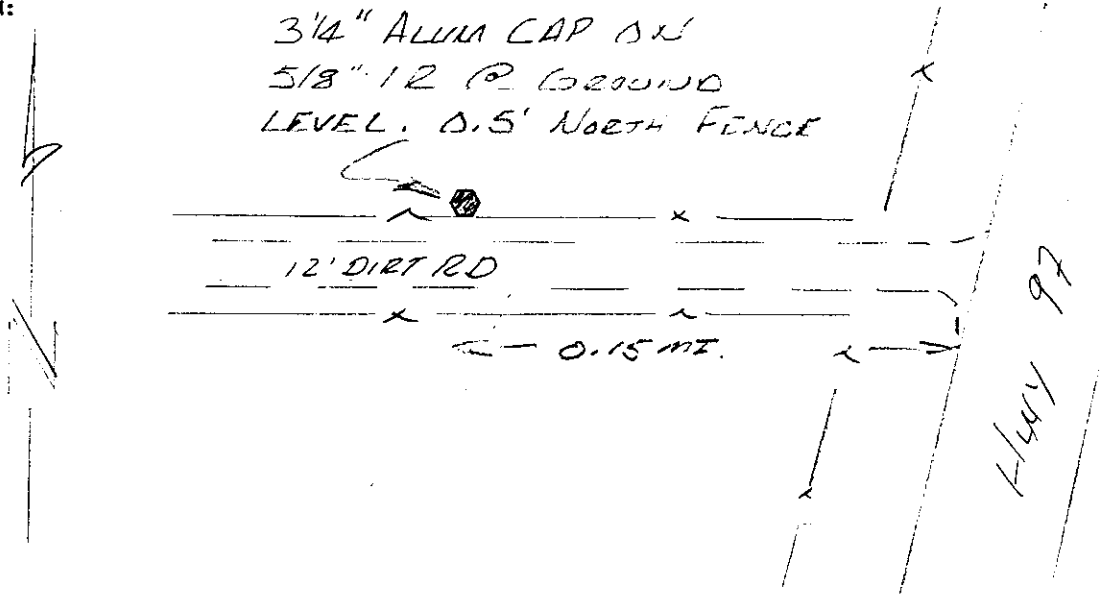
MARK: 17120304 HORIZONTAL ORDER: FIRST

Latitude:	44°07'25.492537"	ONE SIGMA ERROR
Longitude:	121°16'25.542991"	
Northing:	409686.8953	0.012
Easting:	3302513.8125	0.010
Convergence:	+0°00'23.9893"	
Scale Factor:	1.000160007216	
Ellipsoid Height:	3323.391	0.021
Orthometric Height:	3388.2286	0.033
Geoid Height:	-64.8376	

## CONTROL MARK DATA

NAME OF MARK: 17120340 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 3 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 120

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17120340 HORIZONTAL ORDER: FIRST

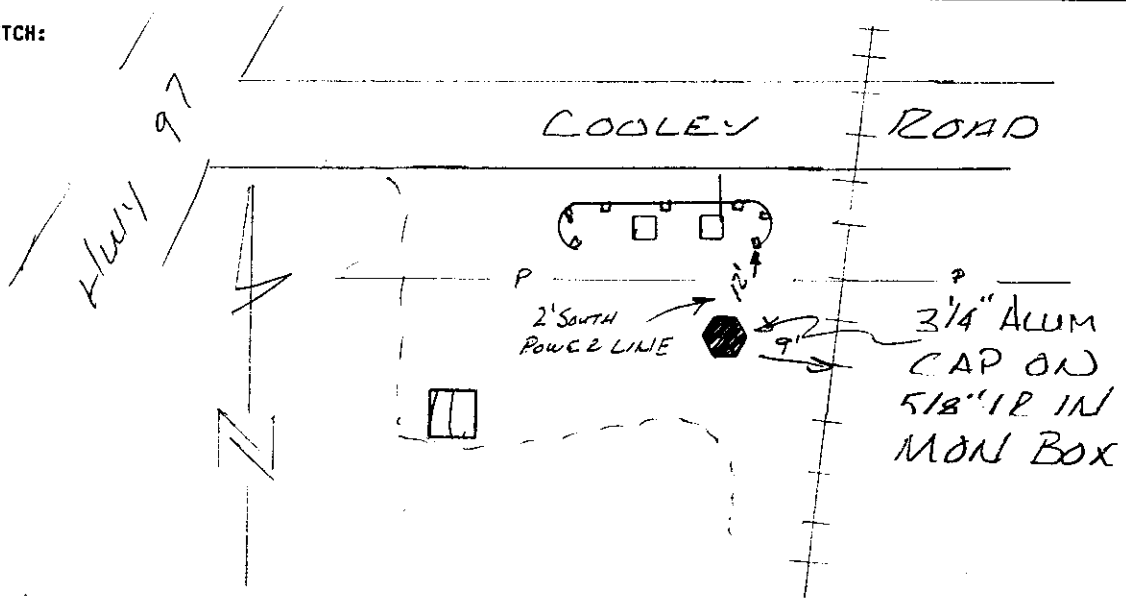
Latitude:	44°07'51.427460"	ONE
Longitude:	121°17'01.427270"	SIGMA
Northing:	412313.4382	ERROR
Easting:	3299895.8861	0.016
Convergence:	-0°00'00.9938"	0.014
Scale Factor:	1.000160000012	
Ellipsoid Height:	3311.0826	0.032
Orthometric Height:	3376.0182	0.042
Geoid Height:	-64.9356	



## CONTROL MARK DATA

NAME OF MARK: 17120904 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 9 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1196

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

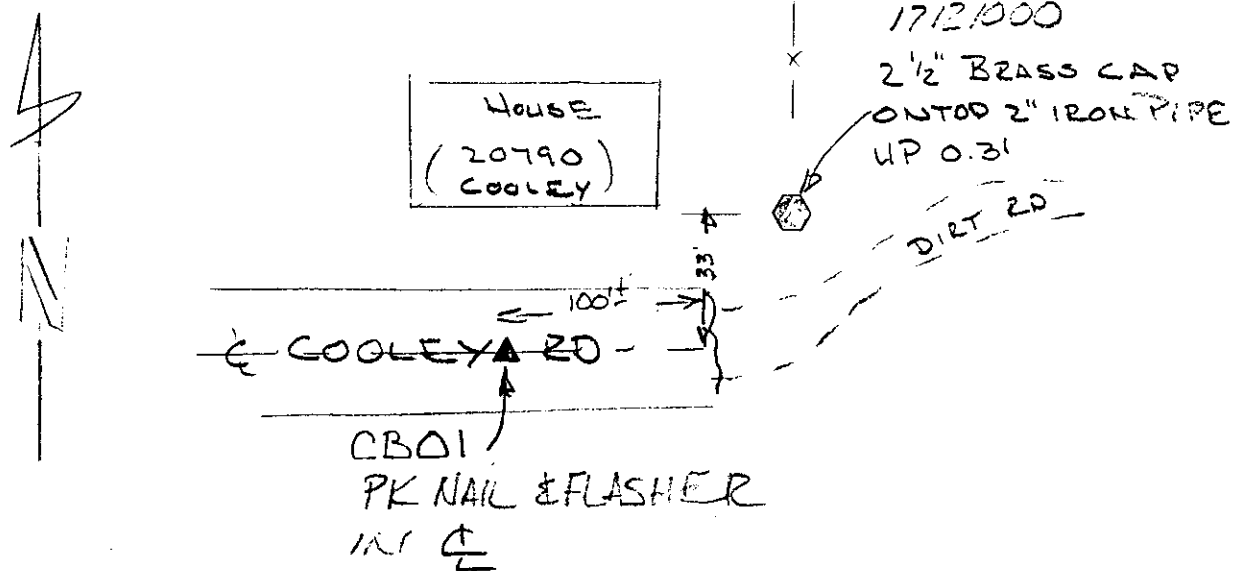
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17120904</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°06'33.120168"	ONE SIGMA ERROR
Longitude:	121°17'37.184347"	
Northing:	404382.6565	0.011
Easting:	3297286.5488	0.012
Convergence:	-0°00'25.8814"	
Scale Factor:	1.000160008408	
Ellipsoid Height:	3392.694	0.021
Orthometric Height:	3457.4622	0.034
Geoid Height:	-64.7682	

## CONTROL MARK DATA

NAME OF MARK: 17121000 COUNTY: DESCHUTES  
 MARK SET BY: LS 0540 GEORGE COOK STATE: OREGON  
 DATE OF MARK: 1976 COUNTRY: U.S.A.  
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 143

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

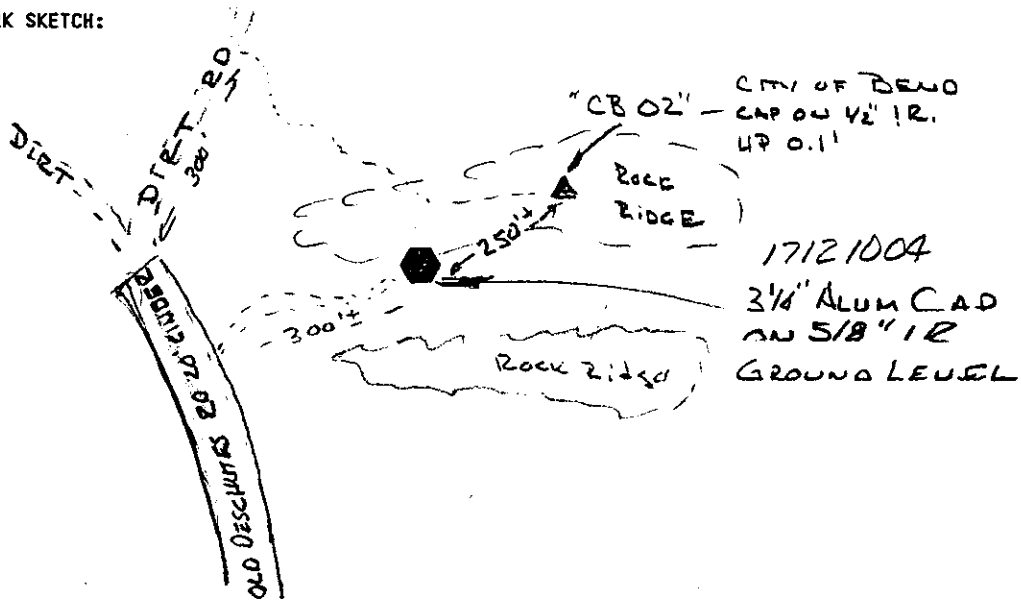
GEODITIC AND MAPPING COORDINATES

MARK: <u>17121000</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'33.108489"	ONE SIGMA ERROR
Longitude:	121°17'01.489783"	
Northing:	404381.3037	0.026
Easting:	3299891.2862	0.039
Convergence:	-0°00'01.0369"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3393.5818	0.048
Orthometric Height:	3458.3317	0.048
Geoid Height:	-64.7499	

## CONTROL MARK DATA

NAME OF MARK: 17121004 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 144

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

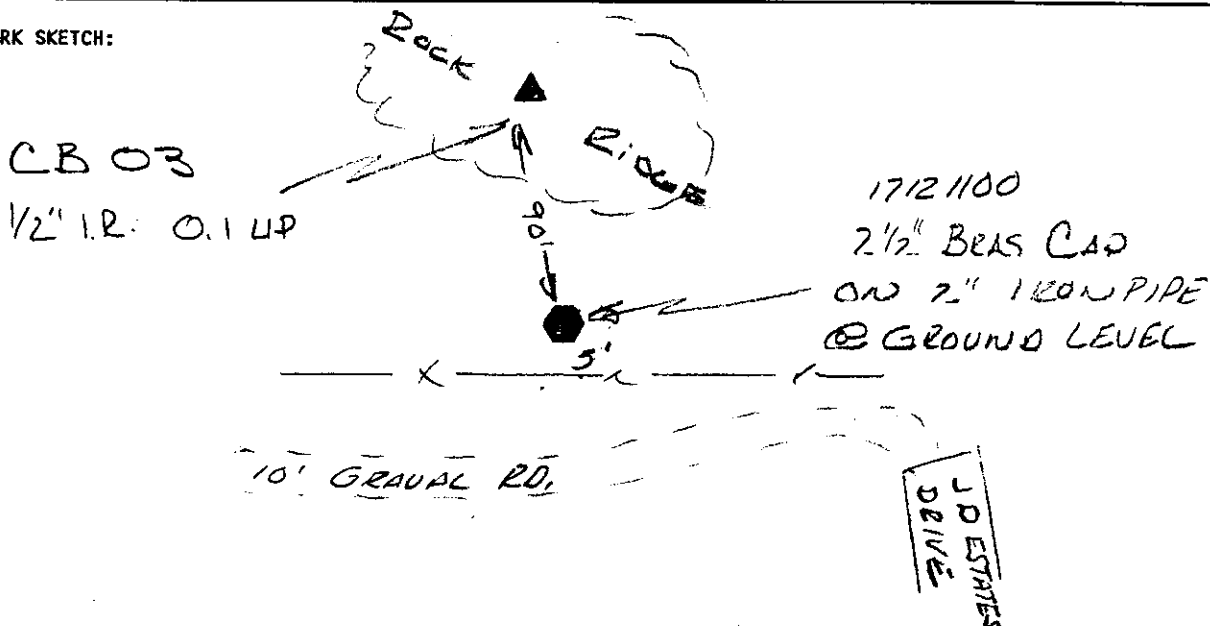
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121004</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	<u>44°06'33.287695"</u>	ONE SIGMA ERROR
Longitude:	<u>121°16'25.531619"</u>	
Northing:	<u>404399.5997</u>	<u>0.034</u>
Easting:	<u>3302515.2571</u>	<u>0.038</u>
Convergence:	<u>+0°00'23.9910"</u>	
Scale Factor:	<u>1.000160007224</u>	
Ellipsoid Height:	<u>3388.07</u>	<u>0.064</u>
Orthometric Height:	<u>3452.7941</u>	<u>0.064</u>
Geoid Height:	<u>-64.7241</u>	

## CONTROL MARK DATA

NAME OF MARK: 17121100 COUNTY: DESCHUTES  
 MARK SET BY: LS 1046 MICHAEL TYE STATE: OREGON  
 DATE OF MARK: 1978 COUNTRY: U.S.A.  
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 145

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

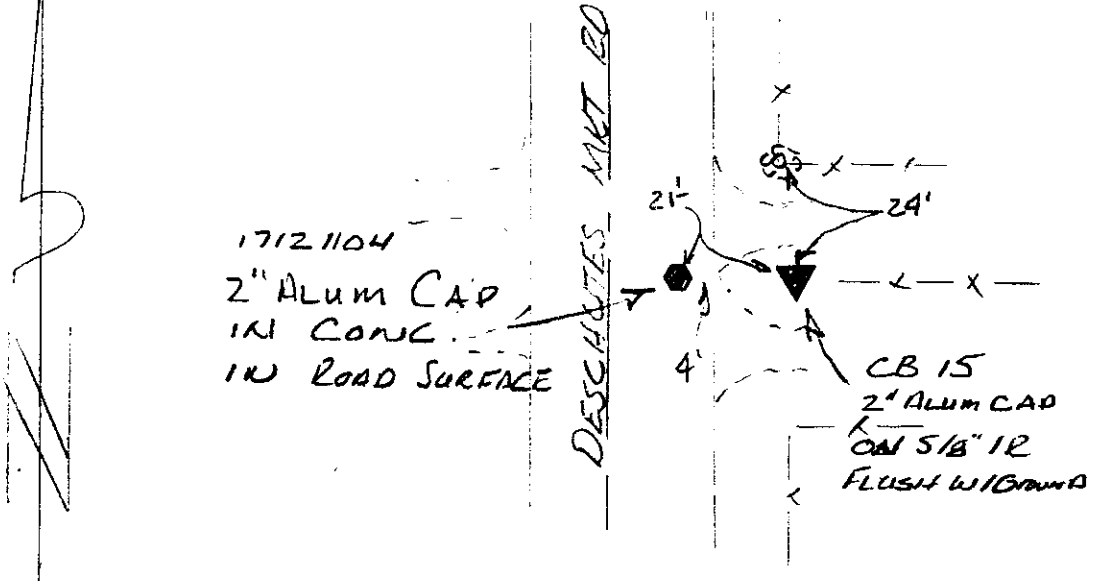
MARK: 17121100 HORIZONTAL ORDER: SECOND

Latitude:	44°06'33.405173"	ONE
Longitude:	121°15'49.676034"	SIGMA
		ERROR
Northing:	404411.9605	0.043
Easting:	3305131.7398	0.022
Convergence:	+0°00'48.9475"	
Scale Factor:	1.000160030072	
Ellipsoid Height:	3365.3568	0.050
Orthometric Height:	3430.0594	0.050
Geoid Height:	-64.7026	

## CONTROL MARK DATA

NAME OF MARK: 17121104 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON  
 DATE OF MARK: 1985 COUNTRY: U.S.A.  
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 101&360

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

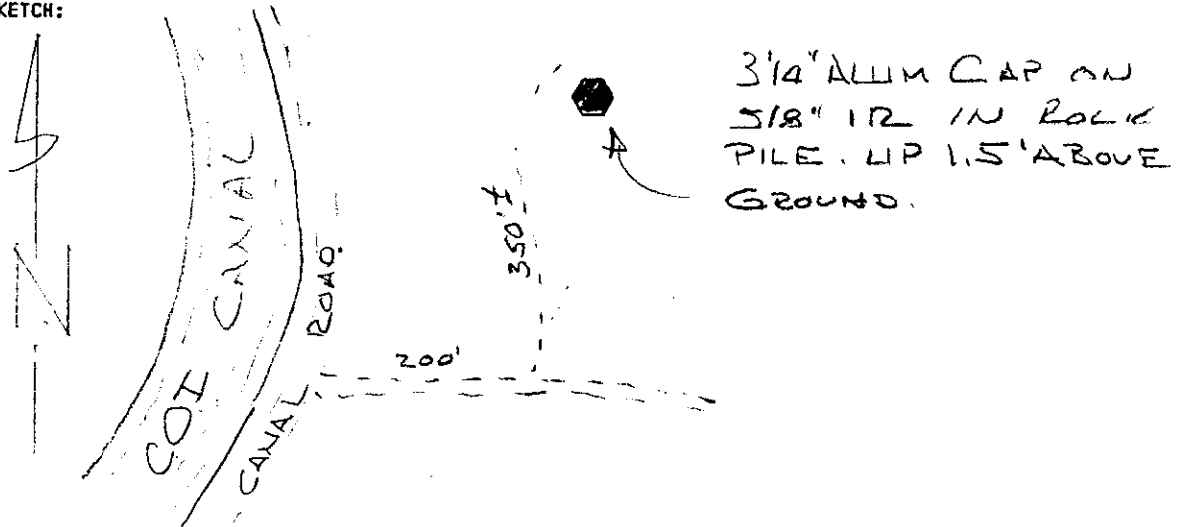
MARK: 17121104 HORIZONTAL ORDER: SECOND

Latitude:	44°06'33.433011"	ONE
Longitude:	121°15'13.190829"	SIGMA
Northing:	404415.5755	ERROR
Easting:	3307794.1679	0.013
Convergence:	+0°01'14.3423"	0.040
Scale Factor:	1.000160069371	
Ellipsoid Height:	3342.8826	0.046
Orthometric Height:	3407.5569	0.046
Geoid Height:	-64.6743	

## CONTROL MARK DATA

NAME OF MARK: 17121140 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 136

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

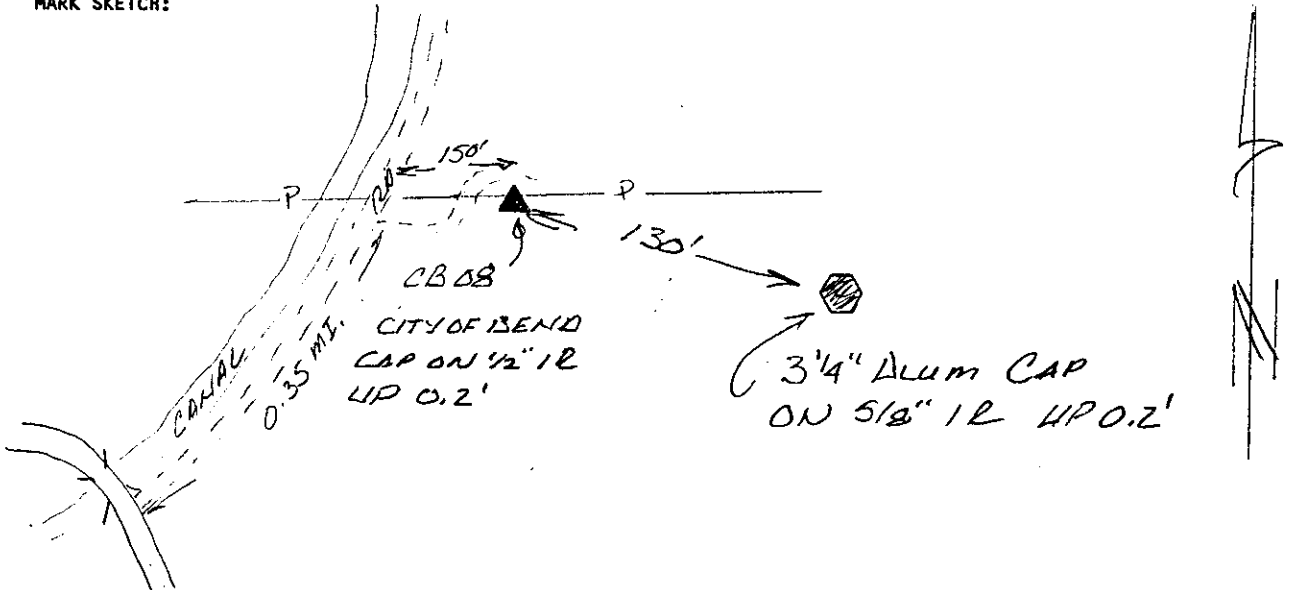
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121140</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'59.471028"	ONE SIGMA ERROR
Longitude:	121°15'49.673442"	
Northing:	407051.9033	0.012
Easting:	3305131.3024	0.011
Convergence:	+0°00'48.9557"	
Scale Factor:	1.000160030067	
Ellipsoid Height:	3326.7134	0.020
Orthometric Height:	3391.4694	0.033
Geoid Height:	-64.756	

## CONTROL MARK DATA

NAME OF MARK: 17121200 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 12 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 146

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

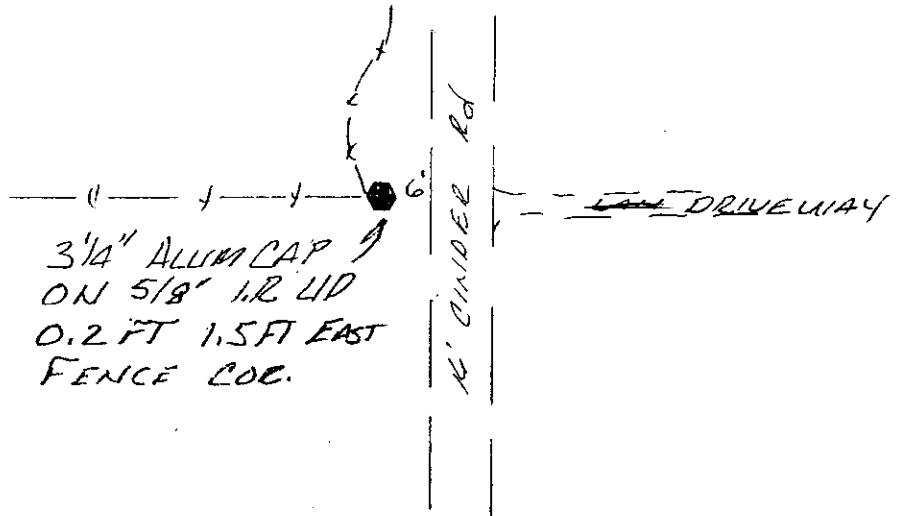
MARK: 17121200 HORIZONTAL ORDER: SECOND

Latitude:	44°06'33.517369"	ONE SIGMA ERROR
Longitude:	121°14'36.706180"	
Northing:	404425.2428	0.019
Easting:	3310456.5521	0.043
Convergence:	+0°01'39.7367"	
Scale Factor:	1.000160124858	
Ellipsoid Height:	3350.5964	0.052
Orthometric Height:	3415.2455	0.052
Geoid Height:	-64.6491	

## CONTROL MARK DATA

NAME OF MARK: 17121204 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 12 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 147

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17121204 HORIZONTAL ORDER: FIRST

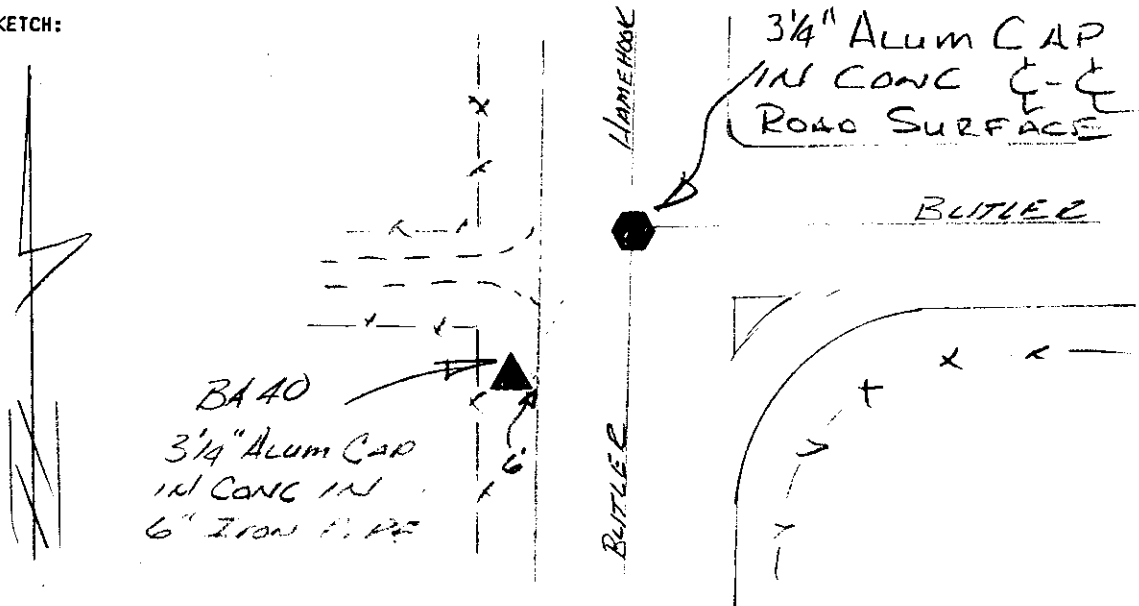
Latitude:	44°06'33.202046"	ONE
Longitude:	121°14'00.633209"	SIGMA
Northing:	404394.74	ERROR
Easting:	3313088.9174	0.011
Convergence:	+0°02'04.8444"	0.010
Scale Factor:	1.000160195635	
Ellipsoid Height:	3334.8884	0.021
Orthometric Height:	3399.506	0.032
Geoid Height:	-64.6176	



### CONTROL MARK DATA

NAME OF MARK: 17121300 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 161

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

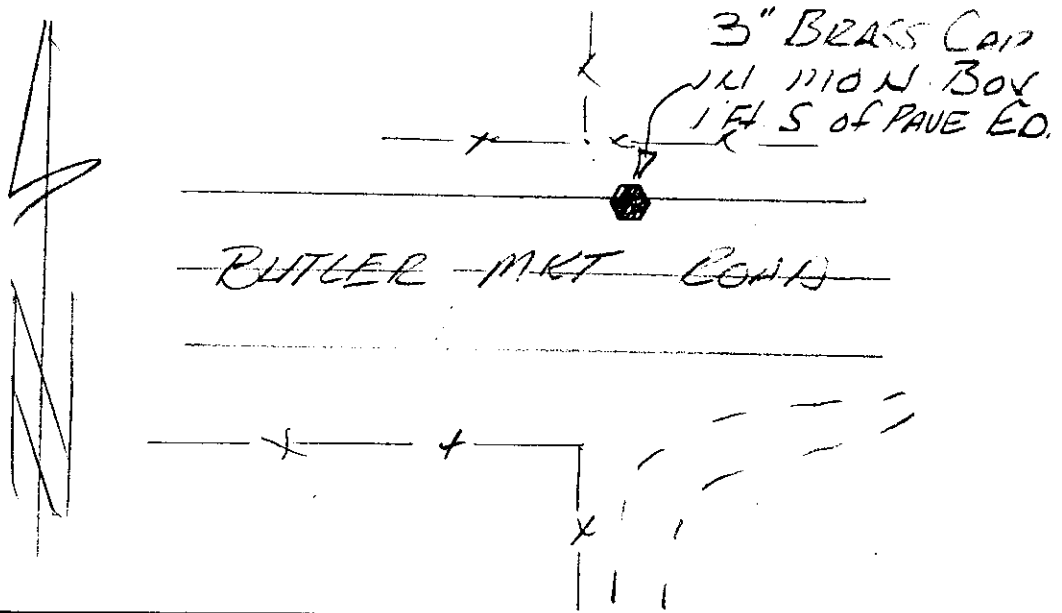
GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121300</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°05'41.073775"	ONE SIGMA ERROR
Longitude:	121°14'36.593970"	
Northing:	399113.7837	0.041
Easting:	3310467.3103	0.025
Convergence:	+0°01'39.7886"	
Scale Factor:	1.000160125115	
Ellipsoid Height:	3374.7631	0.051
Orthometric Height:	3439.2996	0.051
Geoid Height:	-64.5364	

## CONTROL MARK DATA

NAME OF MARK: 17121304 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1198

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

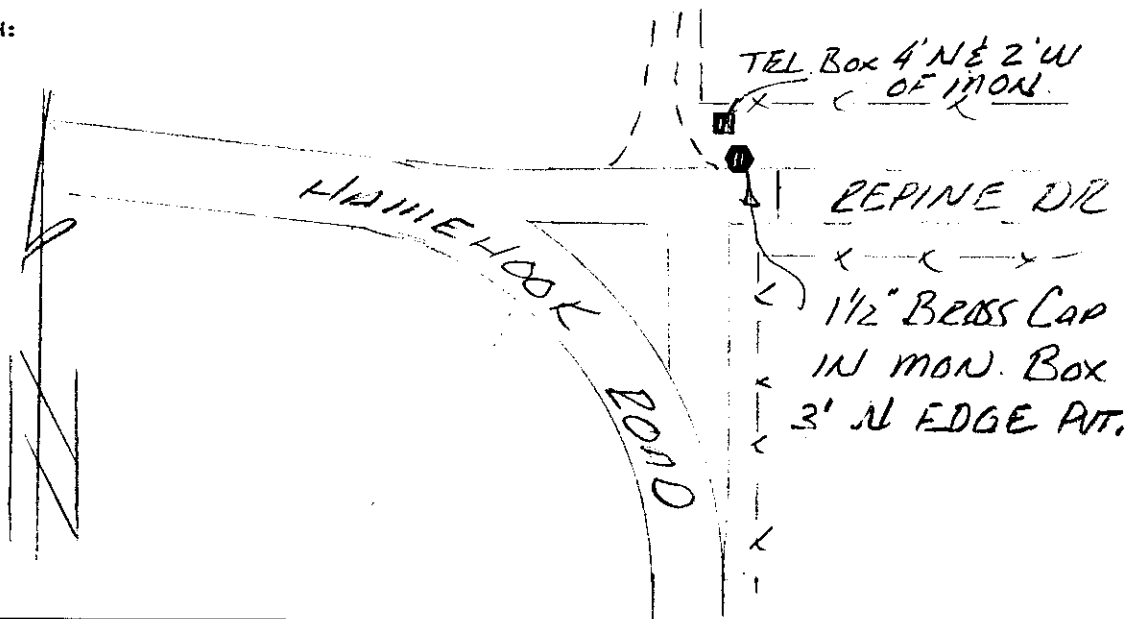
MARK: 17121304 HORIZONTAL ORDER: SECOND

Latitude:	44°05'40.879541"	ONE
Longitude:	121°14'00.700435"	SIGMA
		ERROR
Northing:	399095.5379	0.036
Easting:	3313087.2174	0.046
Convergence:	+0°02'04.7649"	
Scale Factor:	1.000160195585	
Ellipsoid Height:	3391.2204	0.065
Orthometric Height:	3455.7276	0.065
Geoid Height:	-64.5073	

**CONTROL MARK DATA**

NAME OF MARK: 17121340 COUNTY: DESCHUTES  
MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
DATE OF MARK: 1983 COUNTRY: U.S.A.  
LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 152

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

**GEODITIC AND MAPPING COORDINATES**

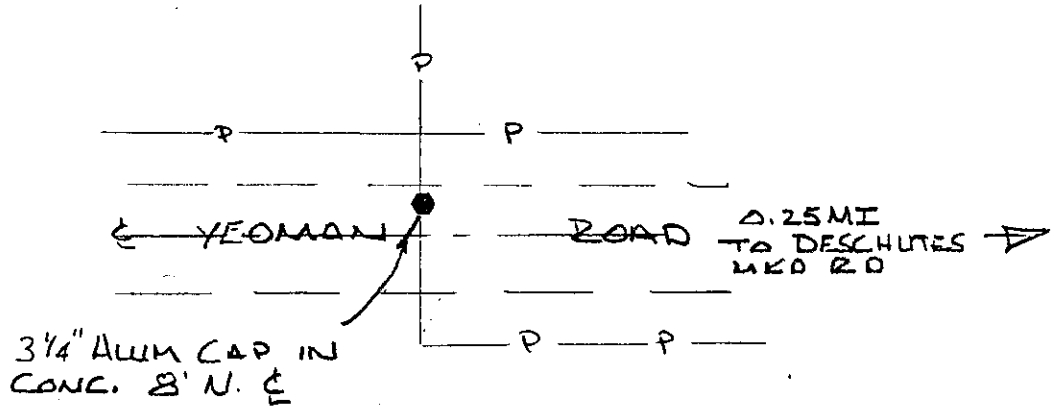
MARK: 17121340 HORIZONTAL ORDER: FIRST

Latitude:	44°06'07.352206"	ONE SIGMA ERROR
Longitude:	121°14'36.655076"	
Northing:	401775.2472	0.013
Easting:	3310461.5631	0.012
Convergence:	+0°01'39.7592"	
Scale Factor:	1.000160124978	
Ellipsoid Height:	3361.9365	0.023
Orthometric Height:	3426.5291	0.034
Geoid Height:	-64.5926	

### CONTROL MARK DATA

NAME OF MARK: 17121400 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 159

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

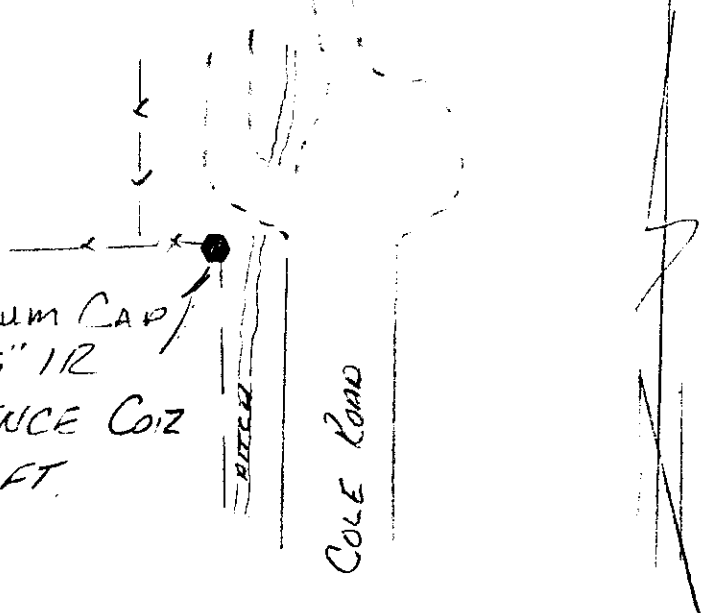
MARK: 17121400 HORIZONTAL ORDER: FIRST

Latitude:	44°05'41.120400"	ONE SIGMA ERROR
Longitude:	121°15'49.434738"	
Northing:	399116.5869	0.016
Easting:	3305150.6086	0.014
Convergence:	+0°00'49.1026"	
Scale Factor:	1.000160030294	
Ellipsoid Height:	3394.1307	0.028
Orthometric Height:	3458.7171	0.038
Geoid Height:	-64.5864	

## CONTROL MARK DATA

NAME OF MARK: 17121404 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 160

MARK SKETCH:



3 1/4" ALUM CAP  
 ON 5/8" IR  
 AT FENCE COIZ  
 LIP 0.1 FT.

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

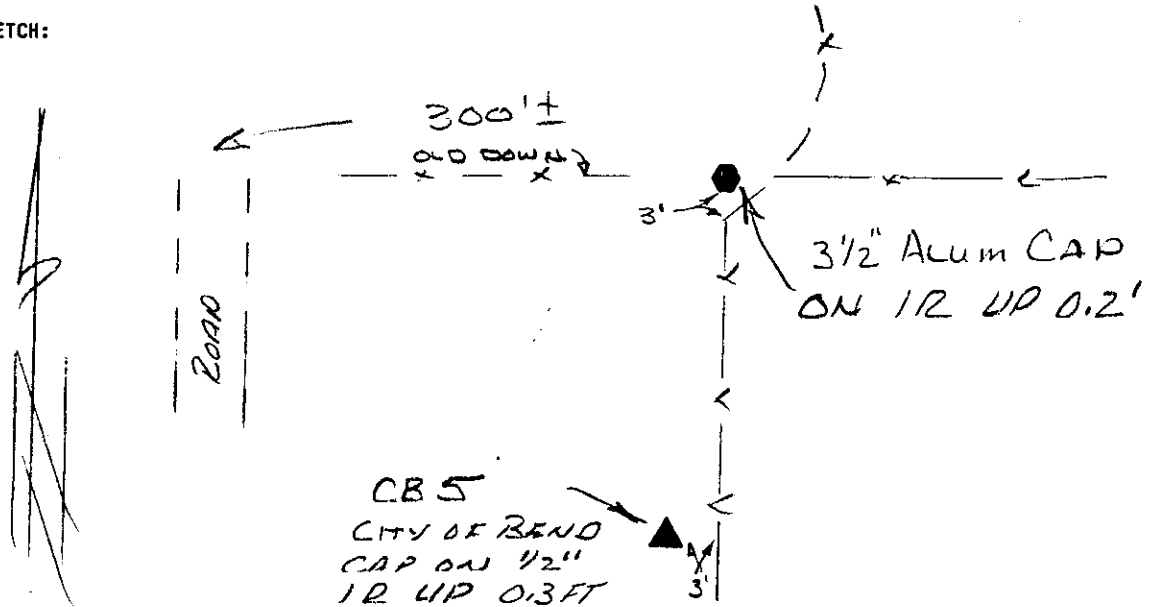
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17121404</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°05'41.104681"	ONE SIGMA ERROR
Longitude:	121°15'13.149045"	
Northing:	399115.7875	0.011
Easting:	3307799.1277	0.012
Convergence:	+0°01'14.3519"	
Scale Factor:	1.000160069460	
Ellipsoid Height:	3394.5555	0.019
Orthometric Height:	3459.1201	0.031
Geoid Height:	-64.5646	

## CONTROL MARK DATA

NAME OF MARK: 17121440 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 151

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

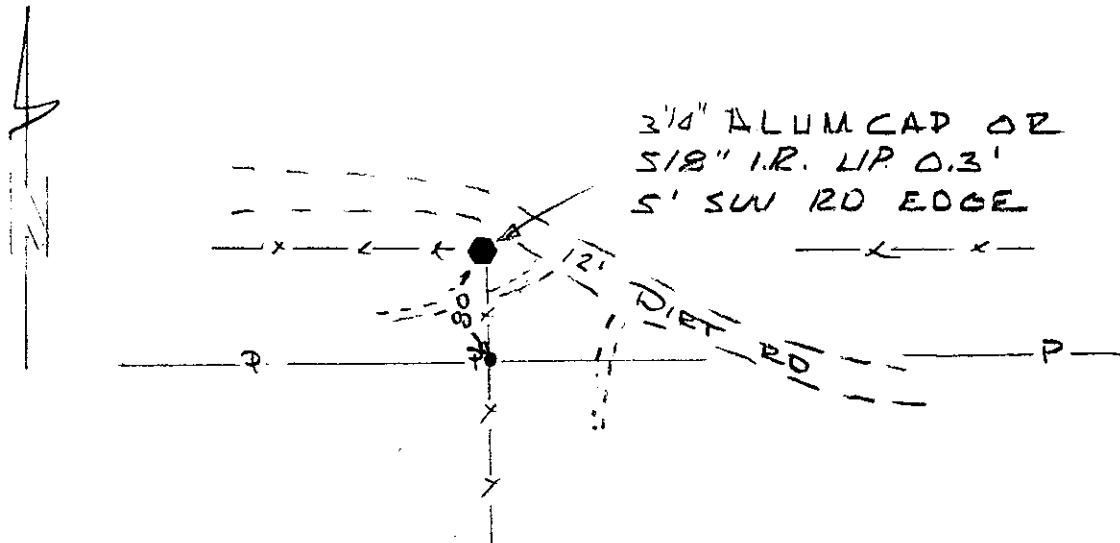
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121440</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°06'07.271518"	ONE SIGMA ERROR
Longitude:	121°15'49.554362"	
Northing:	401765.1563	0.044
Easting:	3305141.2477	0.016
Convergence:	+0°00'49.0258"	
Scale Factor:	1.000160030184	
Ellipsoid Height:	3388.7071	0.046
Orthometric Height:	3453.3502	0.046
Geoid Height:	-64.6431	

## CONTROL MARK DATA

NAME OF MARK: 17121500 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 157

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

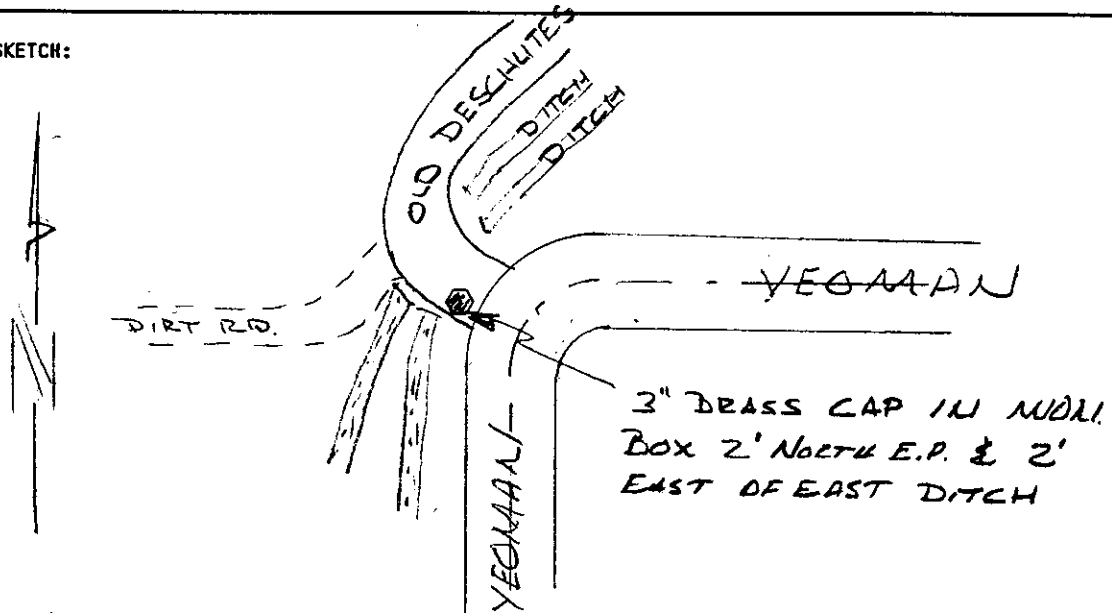
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17121500</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°05'40.886145"	ONE SIGMA ERROR
Longitude:	121°17'01.493902"	
Northing:	399092.2489	0.017
Easting:	3299890.9589	0.016
Convergence:	-0°00'01.0395"	
Scale Factor:	1.000160000014	
Ellipsoid Height:	3411.7102	0.030
Orthometric Height:	3476.3436	0.039
Geoid Height:	-64.6334	

## CONTROL MARK DATA

NAME OF MARK: 17121504 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 158

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

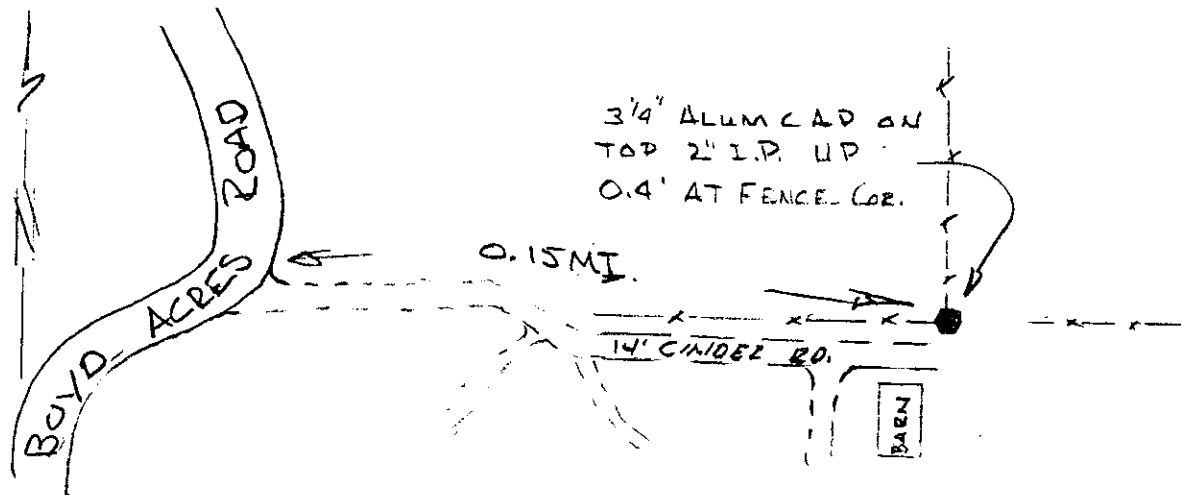
<u>MARK: 17121504</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.952307"	ONE SIGMA ERROR
Longitude:	121°16'25.450877"	
Northing:	399099.0964	0.013
Easting:	3302521.767	0.013
Convergence:	+0°00'24.0409"	
Scale Factor:	1.000160007262	
Ellipsoid Height:	3406.5612	0.024
Orthometric Height:	3471.1694	0.035
Geoid Height:	-64.6082	



## CONTROL MARK DATA

NAME OF MARK: 17121540 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 150

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

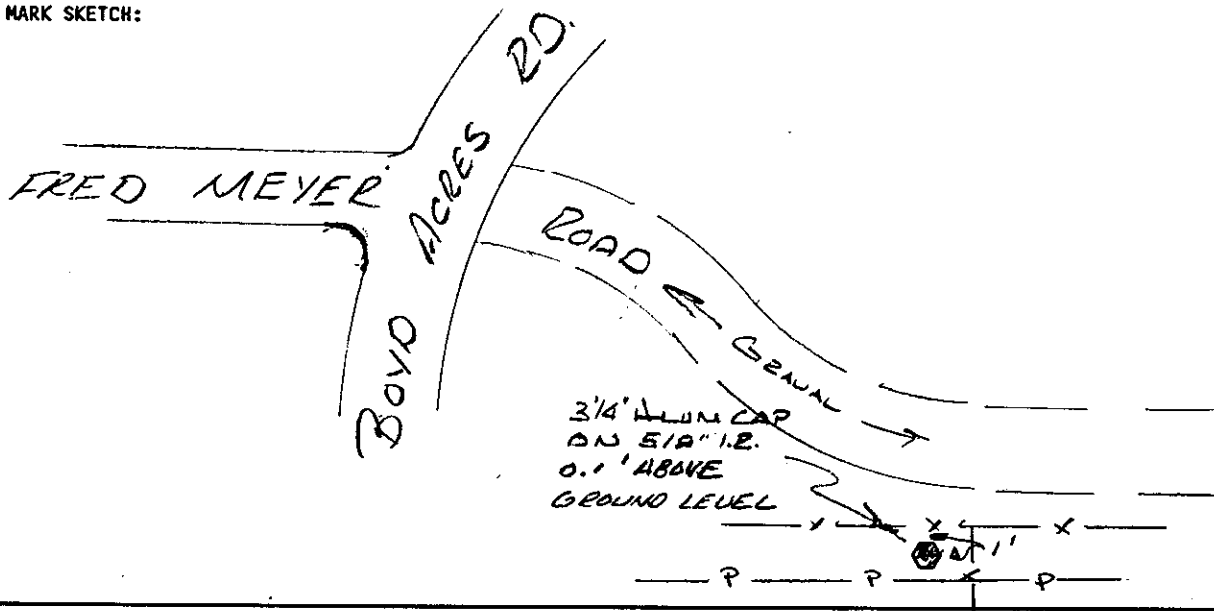
MARK: 17121540 HORIZONTAL ORDER: FIRST

Latitude:	44°06'06.998769"	ONE SIGMA ERROR
Longitude:	121°17'01.550836"	
Northing:	401736.9217	0.011
Easting:	3299886.8171	0.011
Convergence:	-0°00'01.0793"	
Scale Factor:	1.000160000015	
Ellipsoid Height:	3411.9506	0.020
Orthometric Height:	3476.6438	0.033
Geoid Height:	-64.6932	

## CONTROL MARK DATA

NAME OF MARK: 17121604 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 156

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

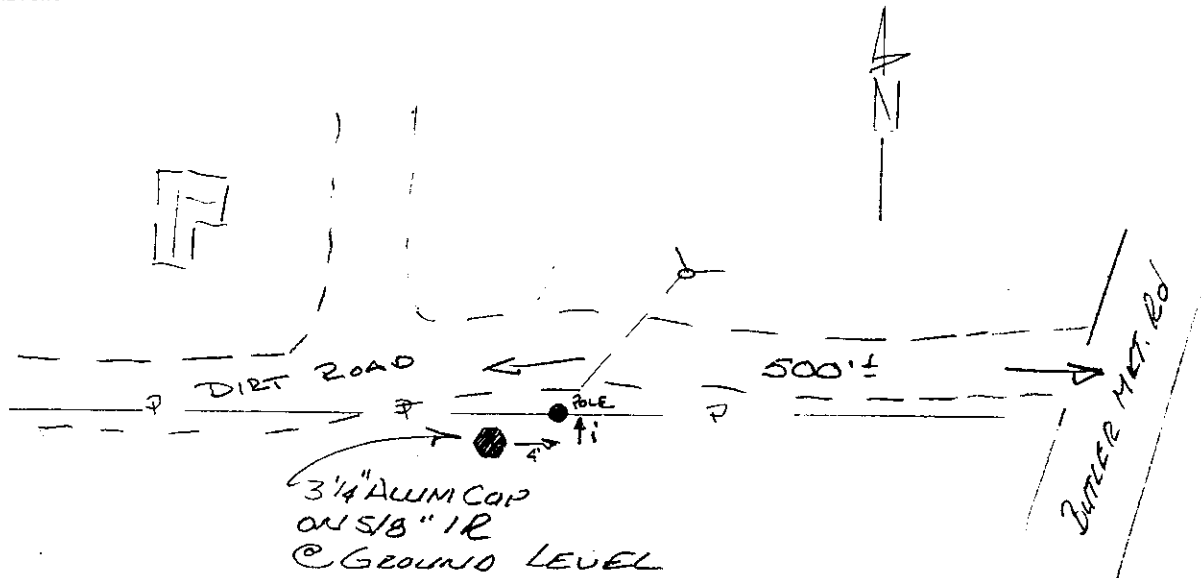
MARK: 17121604 HORIZONTAL ORDER: FIRST

Latitude:	44°05'40.908798"	ONE
Longitude:	121°17'37.506465"	SIGMA
Northing:	399094.7162	ERROR
Easting:	3297262.3737	0.014
Convergence:	-0°00'26.0987"	0.013
Scale Factor:	1.000160008558	
Ellipsoid Height:	3436.2545	0.026
Orthometric Height:	3500.9031	0.037
Geoid Height:	-64.6486	

## CONTROL MARK DATA

NAME OF MARK: 17122200 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 946

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

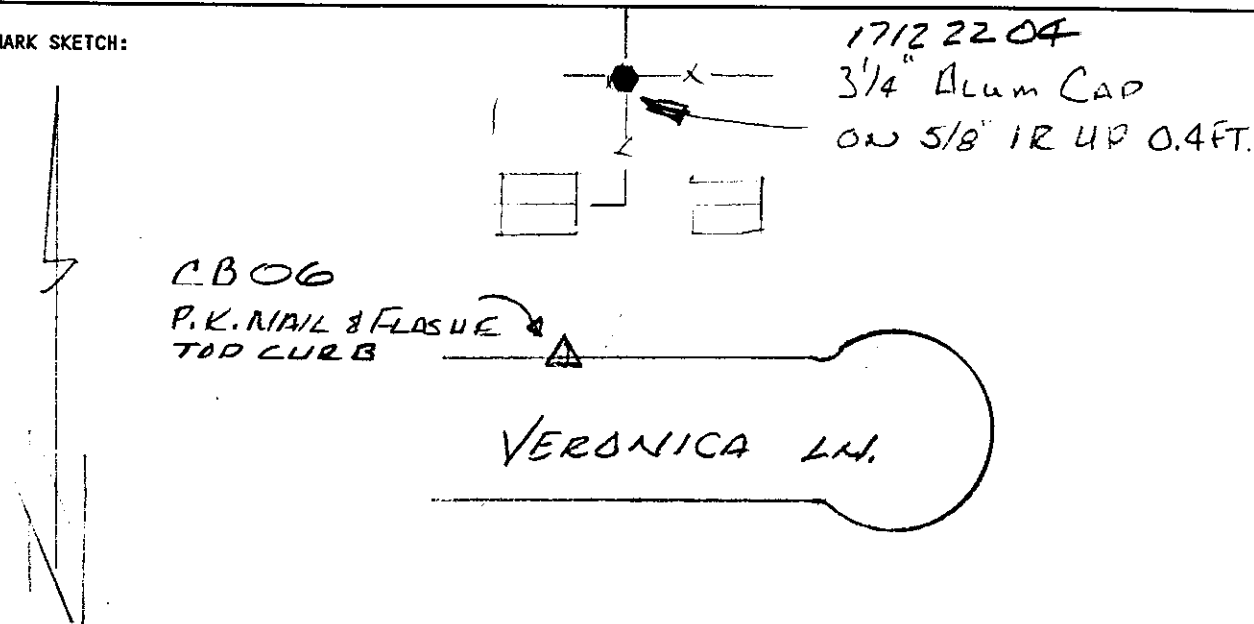
MARK: 17122200 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.548620"	ONE SIGMA ERROR
Longitude:	121°17'01.275820"	
Northing:	393791.5421	0.011
Easting:	3299906.8541	0.010
Convergence:	-0°00'00.8875"	
Scale Factor:	1.000160000010	
Ellipsoid Height:	3463.2985	0.020
Orthometric Height:	3527.8155	0.033
Geoid Height:	-64.5171	

**CONTROL MARK DATA**

NAME OF MARK: 17122204 COUNTY: DESCHUTES  
MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
DATE OF MARK: 12/13/88 COUNTRY: U.S.A.  
LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 947

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

**GEOIDIC AND MAPPING COORDINATES**

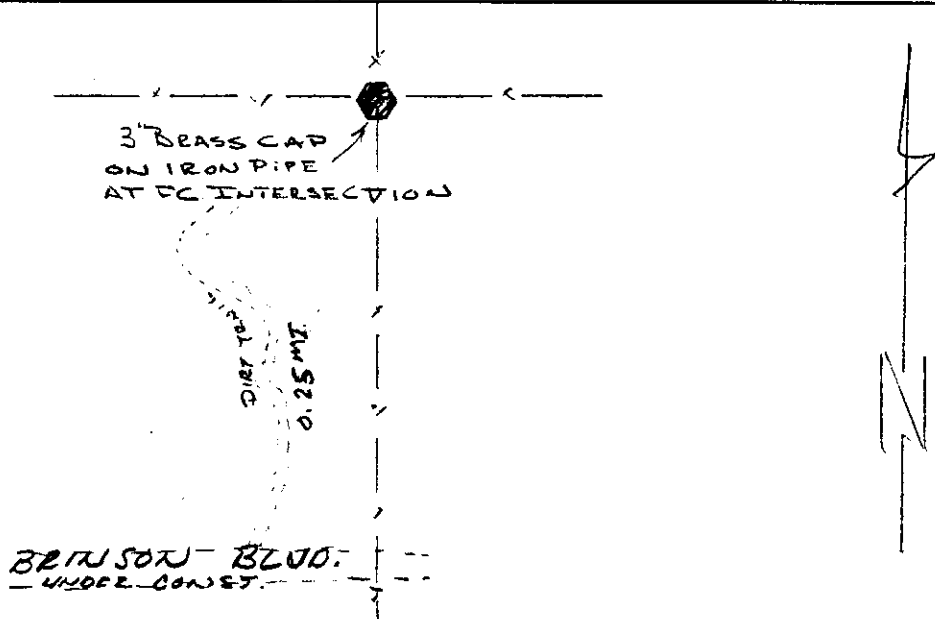
MARK: 17122204 HORIZONTAL ORDER: SECOND

Latitude:	44°04'48.674416"	ONE SIGMA ERROR
Longitude:	121°16'25.426718"	
Northing:	393804.4295	0.047
Easting:	3302524.1479	0.048
Convergence:	+0°00'24.0514"	
Scale Factor:	1.000160007276	
Ellipsoid Height:	3446.9982	0.052
Orthometric Height:	3511.4873	0.052
Geoid Height:	-64.4891	

## CONTROL MARK DATA

NAME OF MARK: 17122240 COUNTY: DESCHUTES  
 MARK SET BY: LS 1735 WILLIAM JABS STATE: OREGON  
 DATE OF MARK: 1980 +/- COUNTRY: U.S.A.  
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 942

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

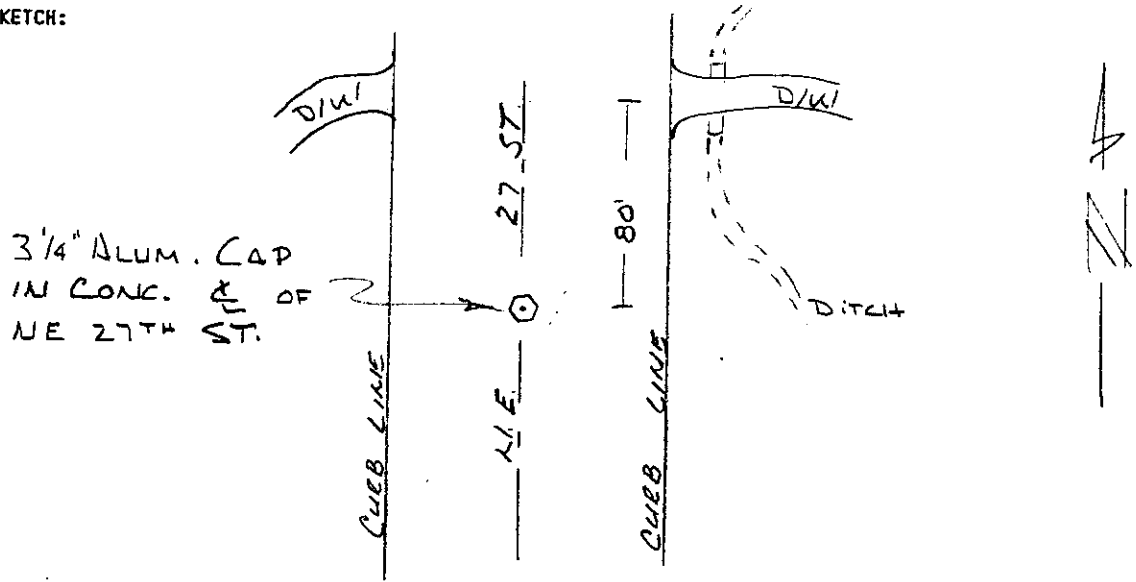
MARK: 17122240 HORIZONTAL ORDER: FIRST

Latitude:	44°05'14.719129"	ONE
Longitude:	121°17'01.442536"	SIGMA
Northing:	396442.0707	ERROR
Easting:	3299894.6953	0.017
Convergence:	-0°00'01.0037"	0.015
Scale Factor:	1.000160000013	
Ellipsoid Height:	3454.1557	0.030
Orthometric Height:	3518.7325	0.040
Geoid Height:	-64.5769	

## CONTROL MARK DATA

NAME OF MARK: 17122300 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/14/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 026&982 *1026 & 928*

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

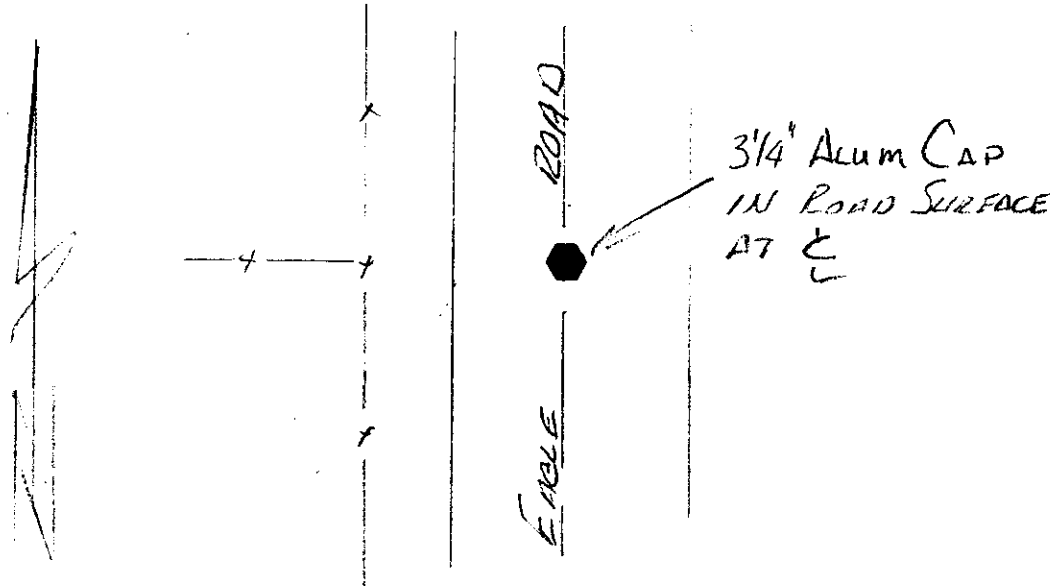
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122300</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'48.873259"	ONE SIGMA ERROR
Longitude:	121°15'49.556878"	
Northing:	393825.0319	0.013
Easting:	3305142.9509	0.011
Convergence:	+0°00'49.0048"	
Scale Factor:	1.000160030204	
Ellipsoid Height:	3455.3772	0.022
Orthometric Height:	3519.8506	0.034
Geoid Height:	-64.4734	

## CONTROL MARK DATA

NAME OF MARK: 17122304 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/09/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 940

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

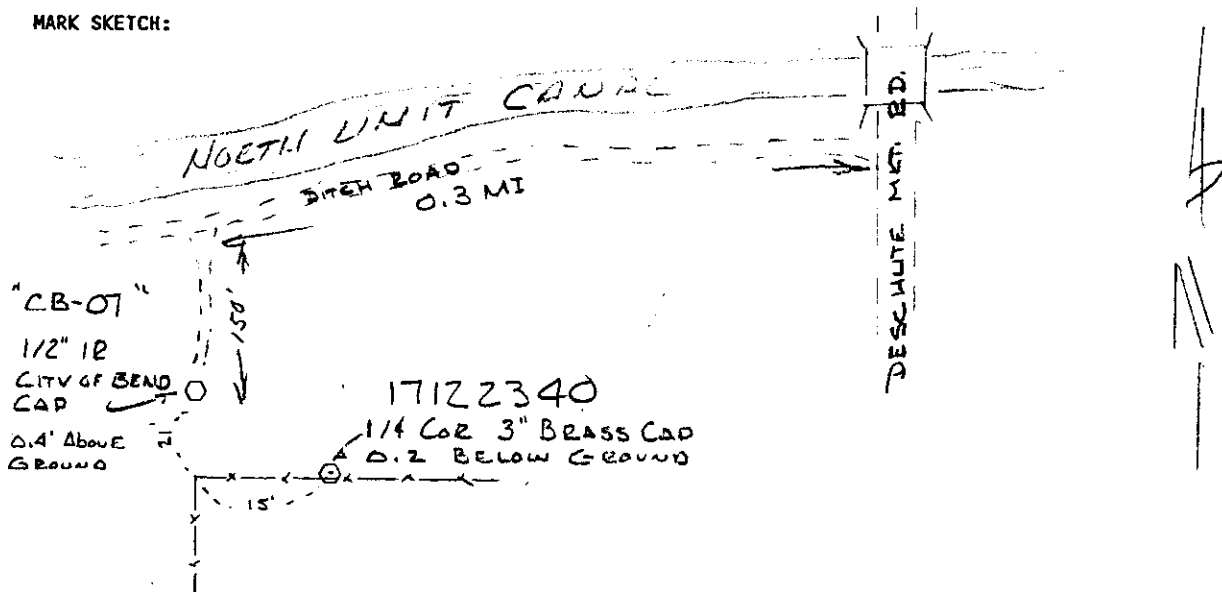
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122304</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'48.895194"	ONE SIGMA ERROR
Longitude:	121°15'13.246713"	
Northing:	393828.0456	0.013
Easting:	3307793.9029	0.010
Convergence:	+0°01'14.2645"	
Scale Factor:	1.000160069367	
Ellipsoid Height:	3454.7165	0.021
Orthometric Height:	3519.168	0.033
Geoid Height:	-64.4515	

## CONTROL MARK DATA

NAME OF MARK: 17122340 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 7/19/91 COUNTRY: U.S.A.  
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1068

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17122340 HORIZONTAL ORDER: SECOND

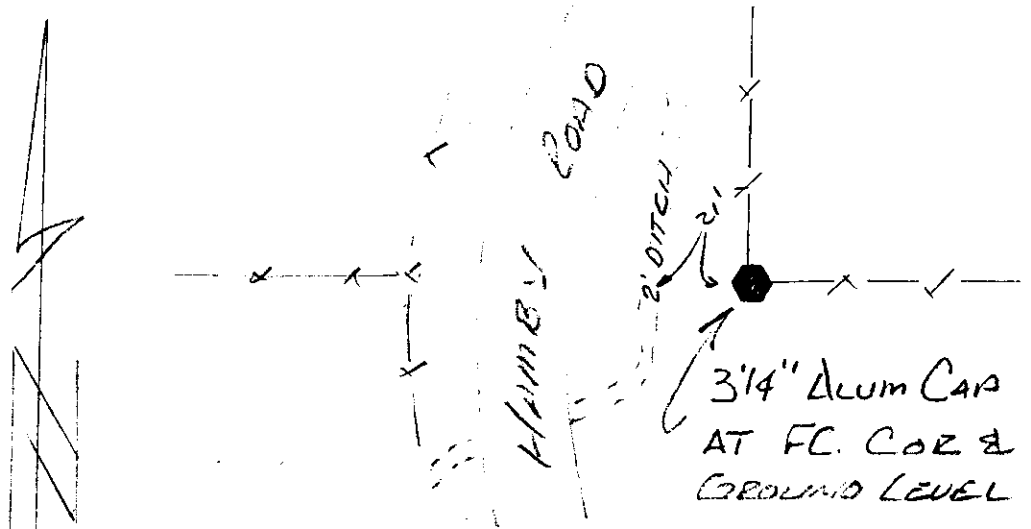
Latitude:	44°05'14.922566"	ONE
Longitude:	121°15'49.560655"	SIGMA
		ERROR
Northing:	396463.2853	0.034
Easting:	3305142.0483	0.032
Convergence:	+0°00'49.0086"	
Scale Factor:	1.000160030193	
Ellipsoid Height:	3413.7724	0.037
Orthometric Height:	3478.3025	0.037
Geoid Height:	-64.5301	



### CONTROL MARK DATA

NAME OF MARK: 17122400 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 945

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

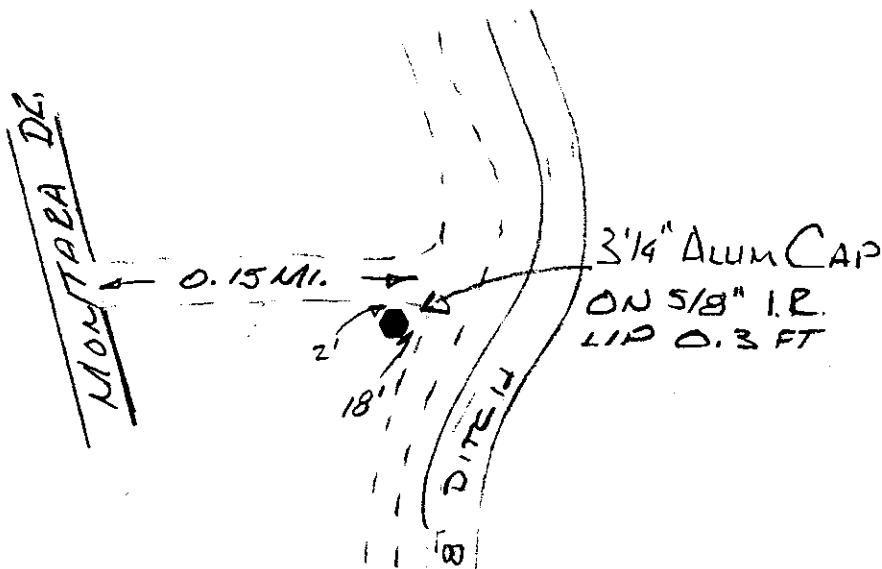
MARK: 17122400 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.921869"	ONE SIGMA ERROR
Longitude:	121°14'36.896336"	
Northing:	393831.8655	0.012
Easting:	3310447.79	0.010
Convergence:	+0°01'39.5523"	
Scale Factor:	1.000160124649	
Ellipsoid Height:	3438.0352	0.021
Orthometric Height:	3502.4649	0.032
Geoid Height:	-64.4297	

### CONTROL MARK DATA

NAME OF MARK: 17122404 COUNTY: DESCHUTES  
MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
DATE OF MARK: 12/15/88 COUNTRY: U.S.A.  
LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 935

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEOIDIC AND MAPPING COORDINATES

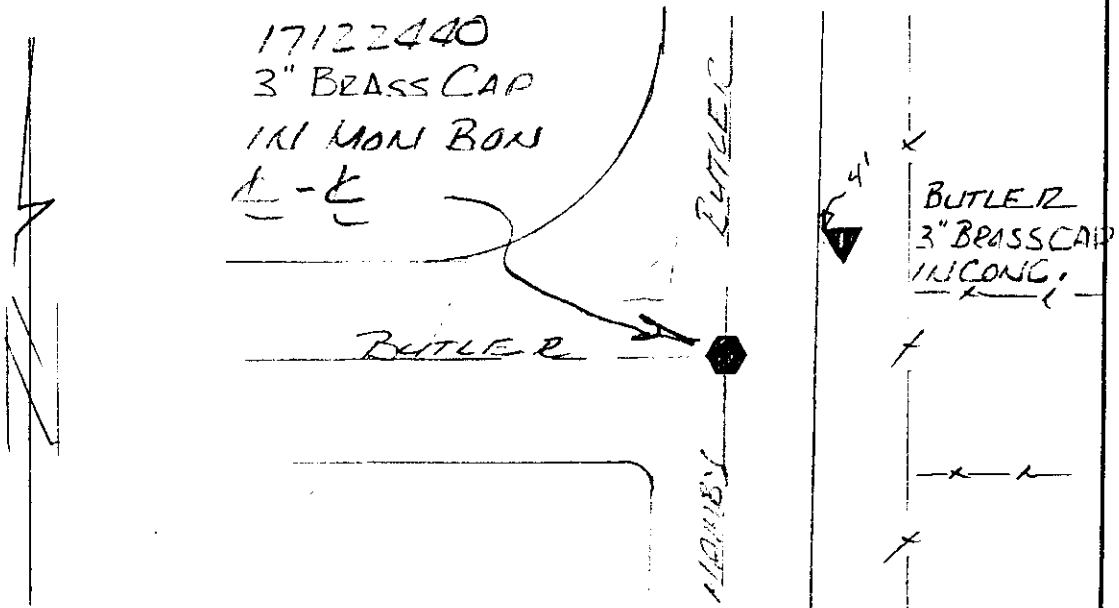
MARK: 17122404 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.717173"	ONE
Longitude:	121°14'00.627122"	SIGMA
Northing:	393812.574	ERROR
Easting:	3313095.7651	0.009
Convergence:	+0°02'04.7834"	0.008
Scale Factor:	1.000160195841	
Ellipsoid Height:	3461.2096	0.017
Orthometric Height:	3525.6143	0.030
Geoid Height:	-64.4046	

## CONTROL MARK DATA

NAME OF MARK: 17122440 COUNTY: DESCHUTES  
 MARK SET BY: UNKNOWN STATE: OREGON  
 DATE OF MARK: 1975+- COUNTRY: U.S.A.  
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 941

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

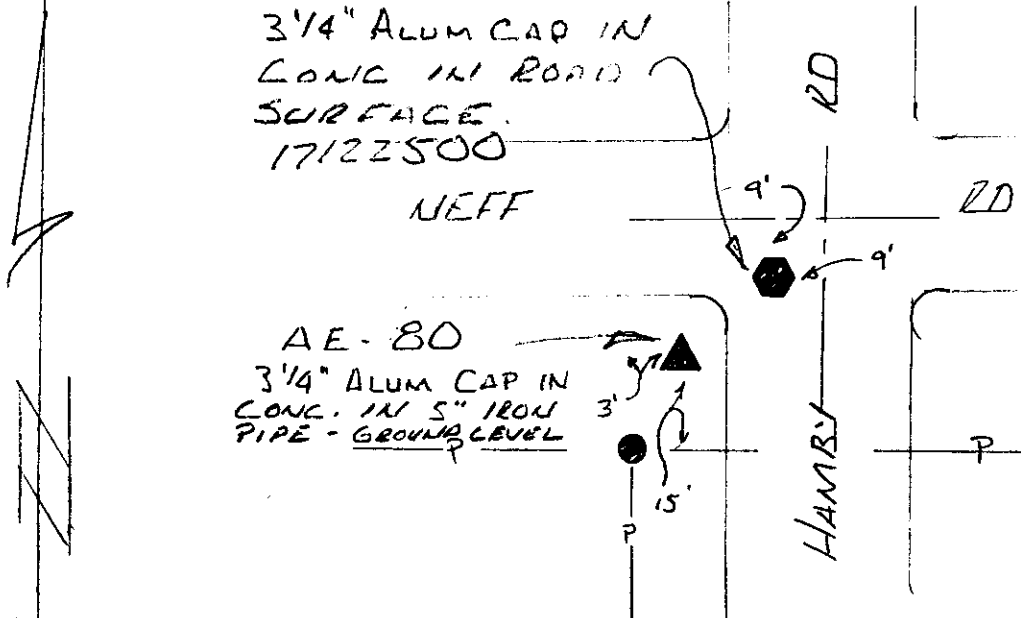
MARK: 17122440 HORIZONTAL ORDER: SECOND

Latitude:	44°05'15.002784"	ONE
Longitude:	121°14'36.685461"	SIGMA
Northing:	396473.3275	ERROR
Easting:	3310461.9089	0.039
Convergence:	+0°01'39.7120"	0.029
Scale Factor:	1.000160124986	
Ellipsoid Height:	3410.6433	0.039
Orthometric Height:	3475.1295	0.039
Geoid Height:	-64.4861	

## CONTROL MARK DATA

NAME OF MARK: 17122500 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 925

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

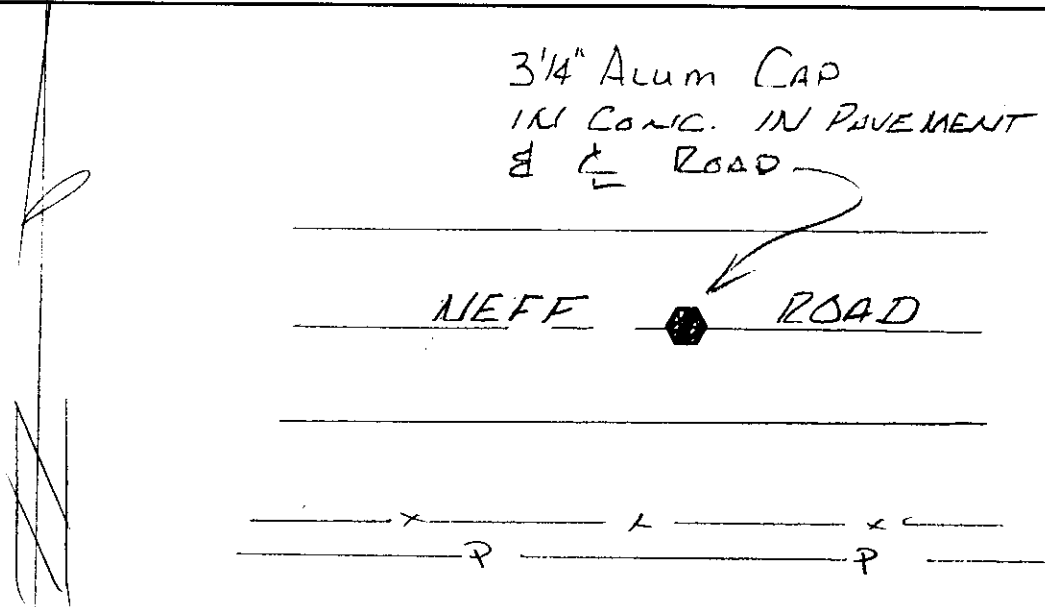
MARK: 17122500 HORIZONTAL ORDER: SECOND

Latitude:	44°03'56.743214"	ONE
Longitude:	121°14'37.127028"	SIGMA
Northing:	388547.2541	ERROR
Easting:	3310433.4937	0.019
Convergence:	+0°01'39.3658"	0.036
Scale Factor:	1.000160124309	
Ellipsoid Height:	3520.8722	0.044
Orthometric Height:	3585.1956	0.044
Geoid Height:	-64.3234	

**CONTROL MARK DATA**

NAME OF MARK: 17122504 COUNTY: DESCHUTES  
MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 924

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

**GEOIDITIC AND MAPPING COORDINATES**

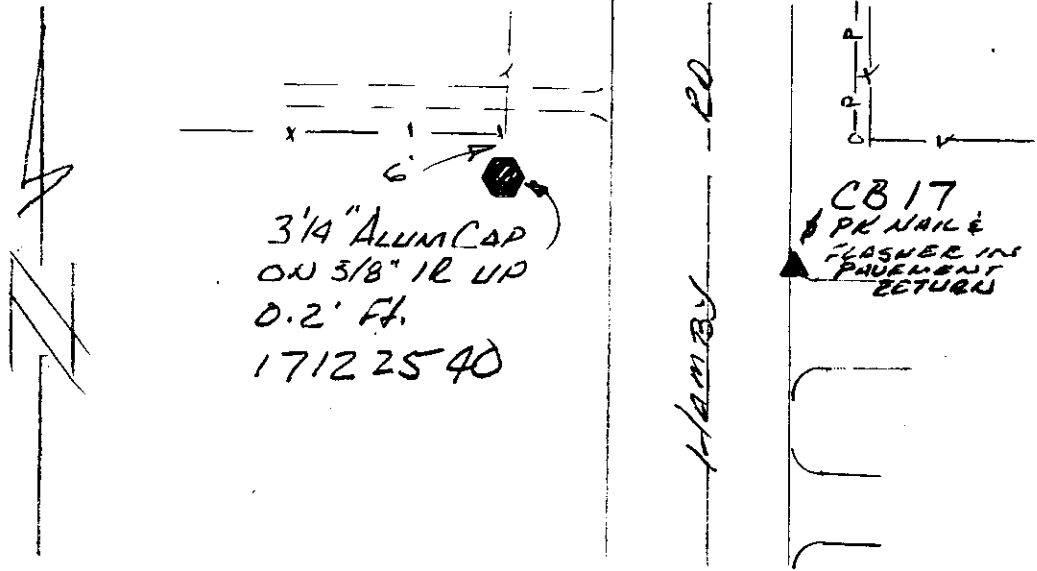
MARK: 17122504 HORIZONTAL ORDER: SECOND

Latitude:	<u>44°03'56.601846"</u>	ONE
Longitude:	<u>121°14'00.711646"</u>	SIGMA
Northing:	<u>388534.3808</u>	ERROR
Easting:	<u>3313092.7853</u>	0.028
Convergence:	<u>+0°02'04.6920"</u>	0.039
Scale Factor:	<u>1.000160195752</u>	
Ellipsoid Height:	<u>3511.0576</u>	0.048
Orthometric Height:	<u>3575.3555</u>	0.048
Geoid Height:	<u>-64.298</u>	

## CONTROL MARK DATA

NAME OF MARK: 17122540 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 943

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

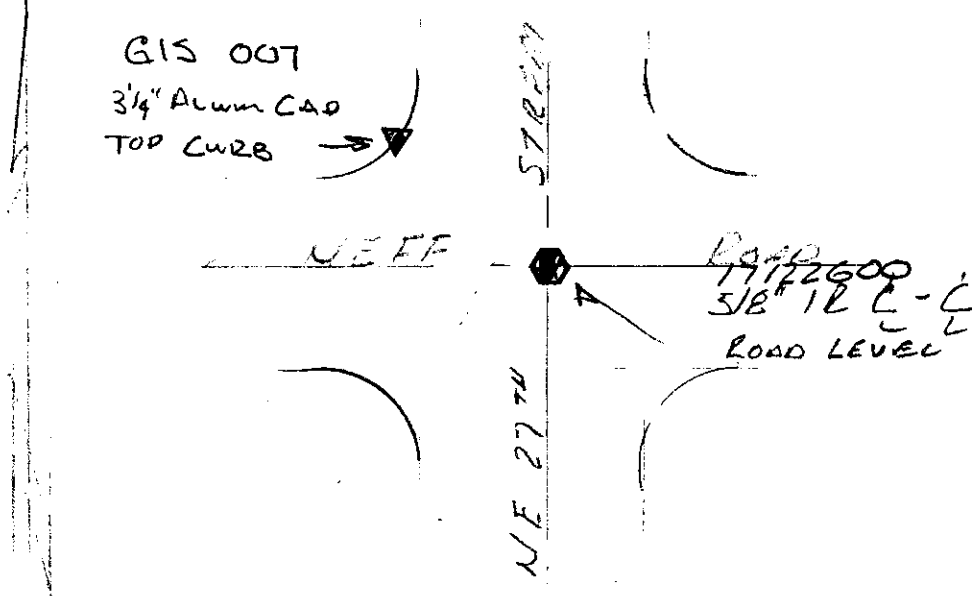
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122540</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	<u>44°04'22.838087"</u>	ONE SIGMA ERROR
Longitude:	<u>121°14'37.007264"</u>	
Northing:	<u>391190.1199</u>	<u>0.035</u>
Easting:	<u>3310440.9653</u>	<u>0.030</u>
Convergence:	<u>+0°01'39.4621"</u>	
Scale Factor:	<u>1.000160124487</u>	
Ellipsoid Height:	<u>3472.4028</u>	<u>0.035</u>
Orthometric Height:	<u>3536.7794</u>	<u>0.035</u>
Geoid Height:	<u>-64.3766</u>	

## CONTROL MARK DATA

NAME OF MARK: 17122600 COUNTY: DESCHUTES  
 MARK SET BY: UNKNOWN STATE: OREGON  
 DATE OF MARK: 1982 COUNTRY: U.S.A.  
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 732

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

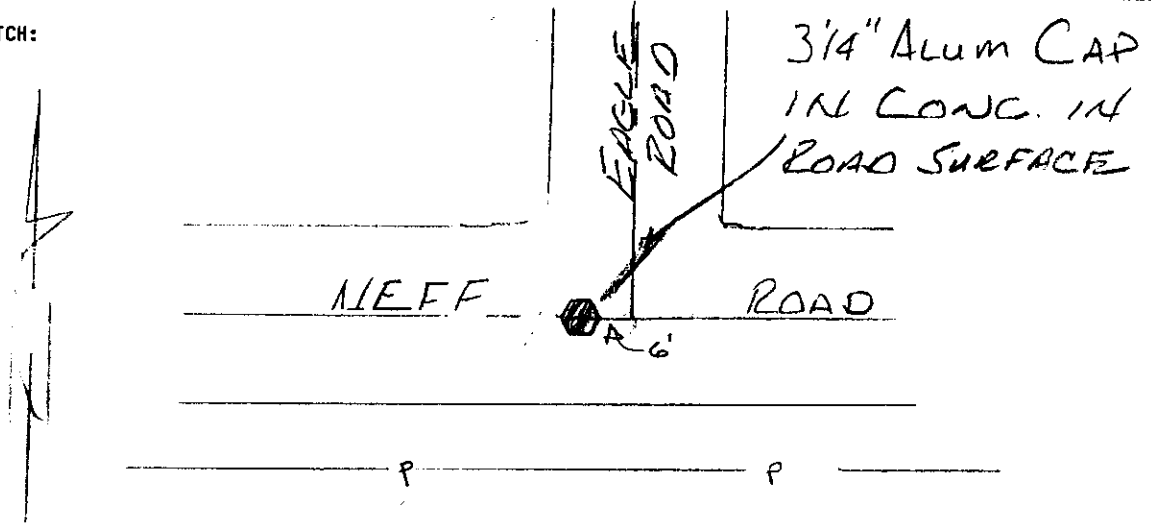
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122600</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'56.754748"	ONE SIGMA ERROR
Longitude:	121°15'49.498693"	
Northing:	388546.5211	0.015
Easting:	3305148.4538	0.014
Convergence:	+0°00'49.0325"	
Scale Factor:	1.000160030269	
Ellipsoid Height:	3518.2522	0.022
Orthometric Height:	3582.6124	0.022
Geoid Height:	-64.3602	

## CONTROL MARK DATA

NAME OF MARK: 17122604 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 926

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17122604 HORIZONTAL ORDER: FIRST

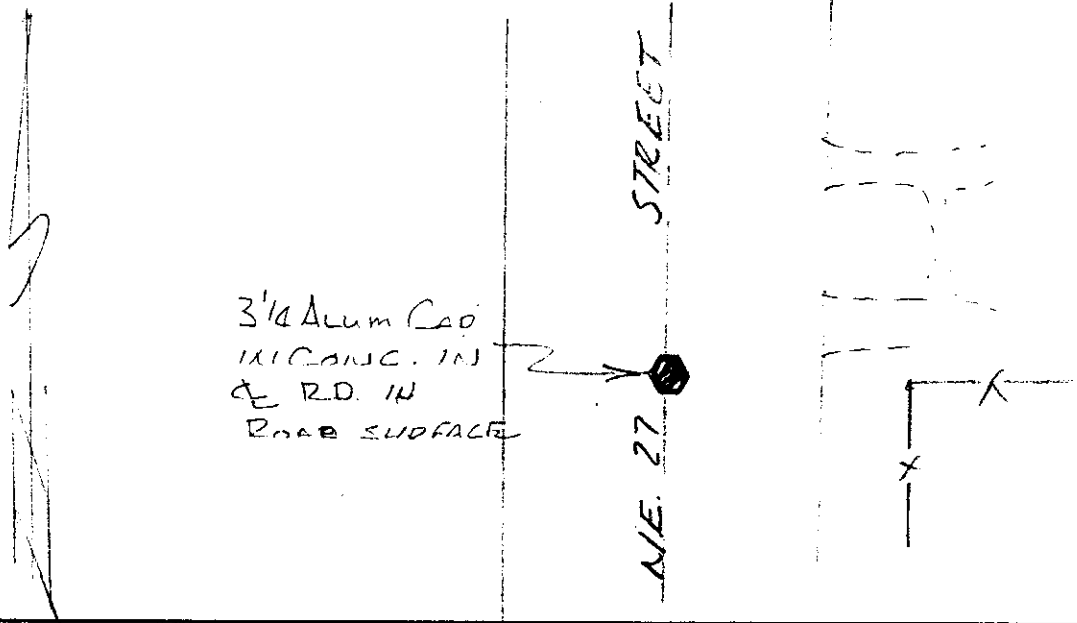
Latitude:	44°03'56.743481"	ONE SIGMA ERROR
Longitude:	121°15'13.443577"	
Northing:	388546.1659	0.015
Easting:	3307781.4281	0.013
Convergence:	+0°01'14.1082"	
Scale Factor:	1.000160069145	
Ellipsoid Height:	3524.4452	0.028
Orthometric Height:	3588.787	0.038
Geoid Height:	-64.3418	



## CONTROL MARK DATA

NAME OF MARK: 17122640 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/15/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 933

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

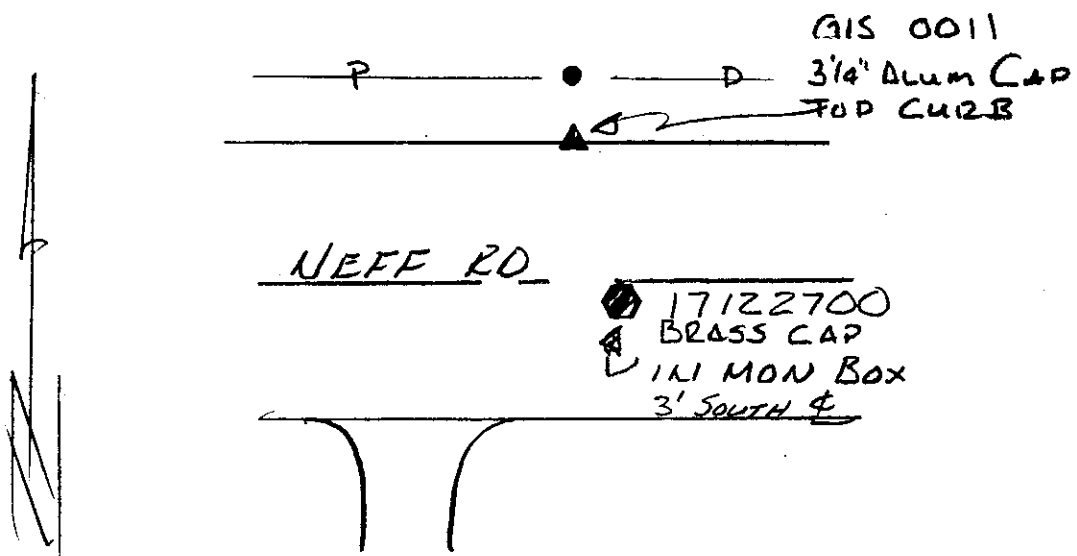
MARK: 17122640 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.775083"	ONE
Longitude:	121°15'49.518736"	SIGMA
Northing:	391181.8331	ERROR
Easting:	3305146.3638	0.016
Convergence:	+0°00'49.0250"	0.014
Scale Factor:	1.000160030244	
Ellipsoid Height:	3482.4707	0.027
Orthometric Height:	3546.8875	0.037
Geoid Height:	-64.4168	

## CONTROL MARK DATA

NAME OF MARK: 17122700 COUNTY: DESCHUTES  
 MARK SET BY: UNKNOWN STATE: OREGON  
 DATE OF MARK: 1975+- COUNTRY: U.S.A.  
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 734

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

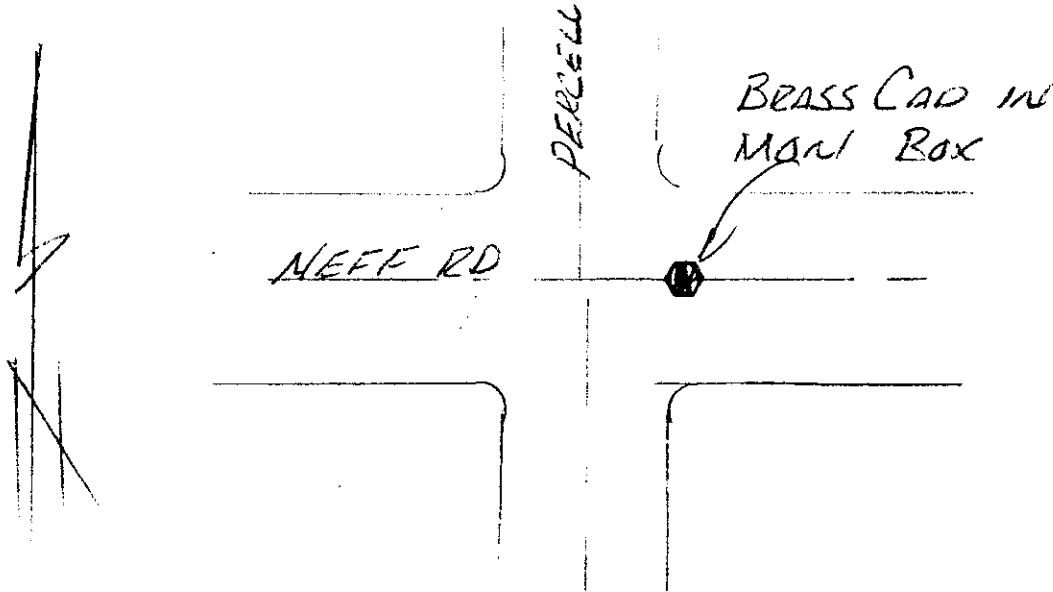
### GEODITIC AND MAPPING COORDINATES

MARK: <u>17122700</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'56.423836"	ONE SIGMA ERROR
Longitude:	121°17'01.534756"	
Northing:	388512.395	0.010
Easting:	3299887.9222	0.003
Convergence:	-0°00'01.0653"	
Scale Factor:	1.000160000014	
Ellipsoid Height:	3610.3859	0.007
Orthometric Height:	3674.7902	0.007
Geoid Height:	-64.4043	

## CONTROL MARK DATA

NAME OF MARK: 17122704 COUNTY: DESCHUTES  
 MARK SET BY: UNKNOWN STATE: OREGON  
 DATE OF MARK: 1975+- COUNTRY: U.S.A.  
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 733

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

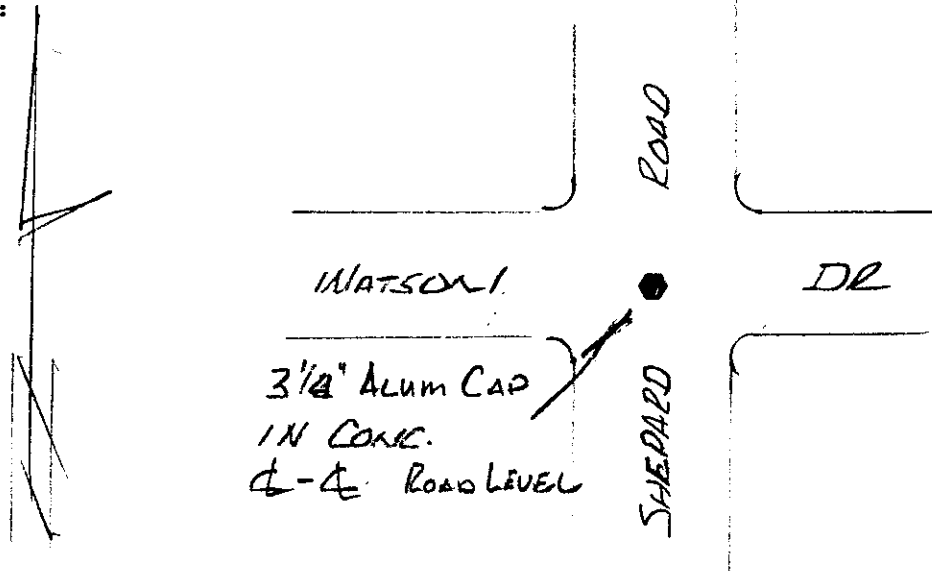
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17122704</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'56.611844"	ONE SIGMA ERROR
Longitude:	121°16'25.535991"	
Northing:	388531.5822	0.013
Easting:	3302516.7828	0.020
Convergence:	+0°00'23.9691"	
Scale Factor:	1.000160007233	
Ellipsoid Height:	3517.9622	0.025
Orthometric Height:	3582.3425	0.025
Geoid Height:	-64.3802	

## CONTROL MARK DATA

NAME OF MARK: 17122740 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/15/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 938

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

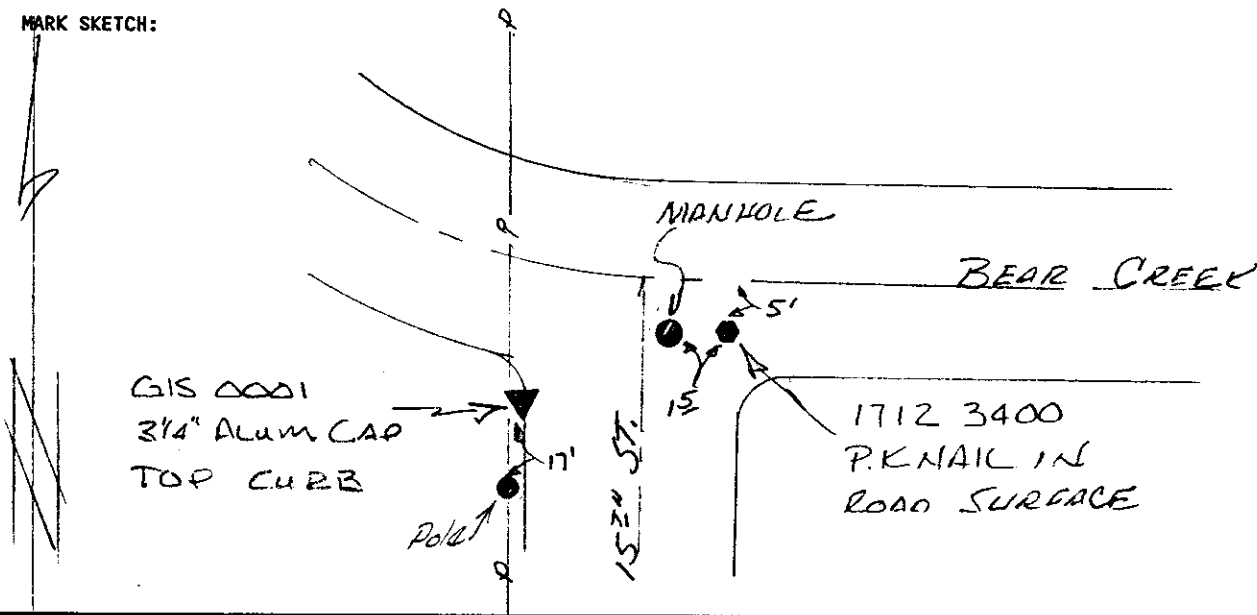
MARK: 17122740 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.437633"	ONE SIGMA ERROR
Longitude:	121°17'01.423791"	
Northing:	391147.0453	0.012
Easting:	3299896.0382	0.011
Convergence:	-0°00'00.9904"	
Scale Factor:	1.000160000012	
Ellipsoid Height:	3491.9368	0.022
Orthometric Height:	3556.3974	0.034
Geoid Height:	-64.4605	

## CONTROL MARK DATA

NAME OF MARK: 17123400 COUNTY: DESCHUTES  
 MARK SET BY: LS 1068 DAVID BATEMAN STATE: OREGON  
 DATE OF MARK: 8/10/87 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 737

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

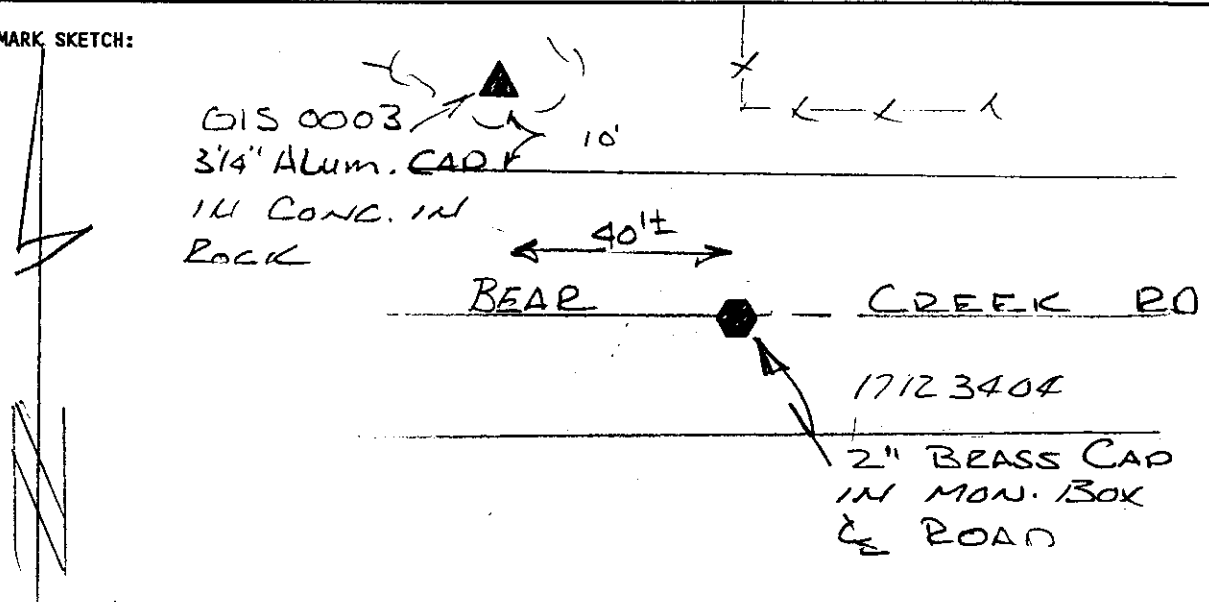
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17123400</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'04.823275"	ONE SIGMA ERROR
Longitude:	121°17'01.465510"	
Northing:	383286.354	0.013
Easting:	3299892.9531	0.016
Convergence:	-0°00'01.0190"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3592.6757	0.017
Orthometric Height:	3657.4567	0.017
Geoid Height:	-64.781	

## CONTROL MARK DATA

NAME OF MARK: 17123404 COUNTY: DESCHUTES  
 MARK SET BY: UNKNOWN STATE: OREGON  
 DATE OF MARK: 1970+- COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 739

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

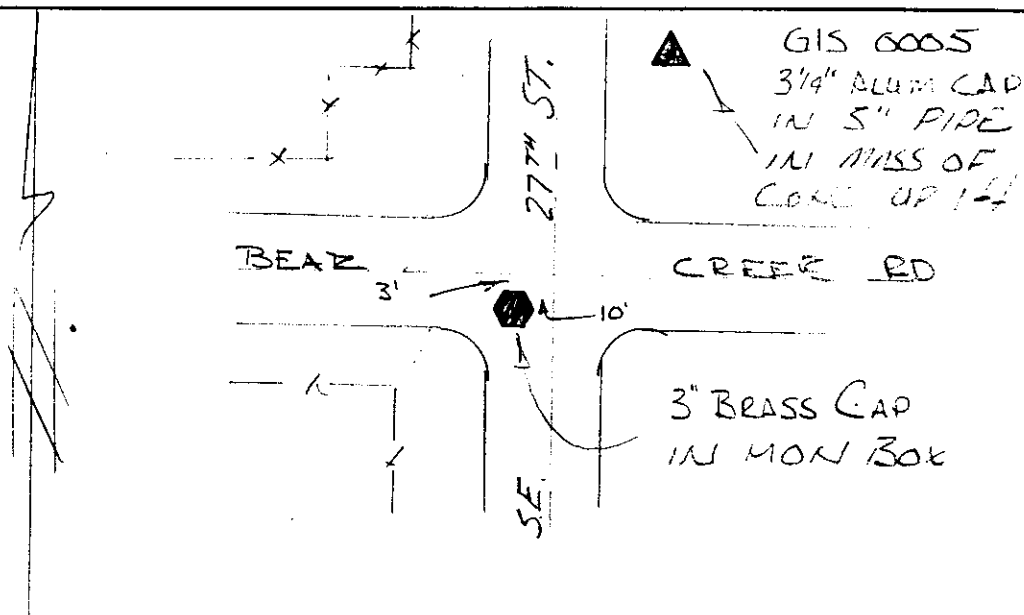
MARK: 17123404 HORIZONTAL ORDER: SECOND

Latitude:	44°03'04.844655"	ONE
Longitude:	121°16'25.208153"	SIGMA
		ERROR
Northing:	383288.668	0.014
Easting:	3302541.3386	0.023
Convergence:	+0°00'24.1909"	
Scale Factor:	1.000160007375	
Ellipsoid Height:	3601.7434	0.019
Orthometric Height:	3666.0028	0.019
Geoid Height:	-64.2594	

## CONTROL MARK DATA

NAME OF MARK: 17123500 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 12/1976 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 731

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

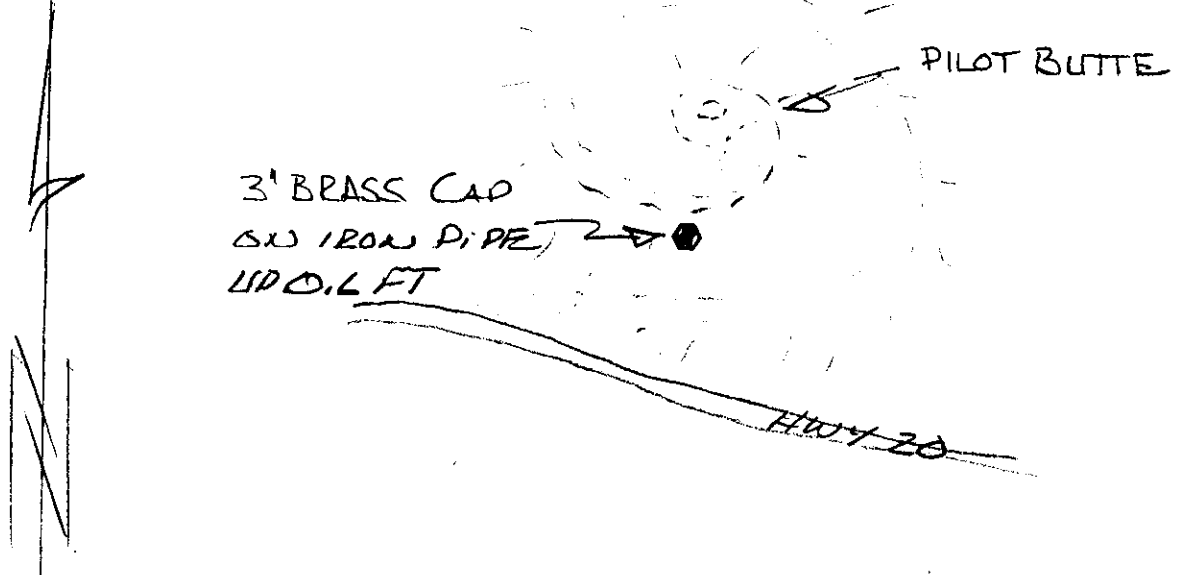
MARK: 17123500 HORIZONTAL ORDER: SECOND

Latitude:	44°03'04.956448"	ONE
Longitude:	121°15'48.929718"	SIGMA
		ERROR
Northing:	383300.4631	0.018
Easting:	3305191.261	0.011
Convergence:	+0°00'49.4154"	
Scale Factor:	1.000160030774	
Ellipsoid Height:	3589.0212	0.018
Orthometric Height:	3653.265	0.018
Geoid Height:	-64.2438	

## CONTROL MARK DATA

NAME OF MARK: 17123440 COUNTY: DESCHUTES  
 MARK SET BY: CENTURY WEST CORP. STATE: OREGON  
 DATE OF MARK: 1975+- COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 735

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17123440 HORIZONTAL ORDER: FIRST

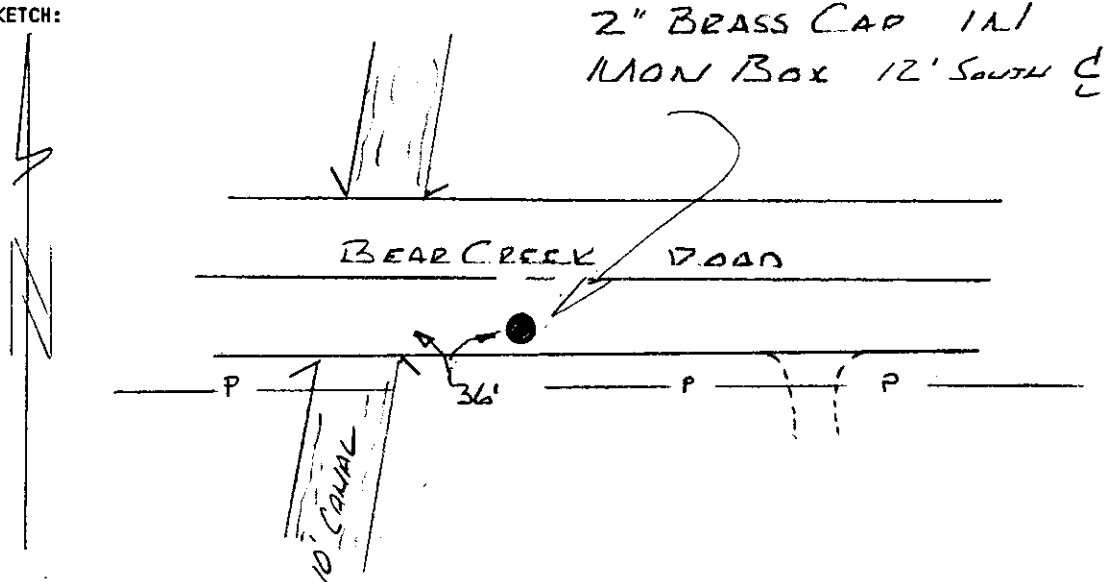
Latitude:	44°03'30.930802"	ONE SIGMA ERROR
Longitude:	121°17'01.460548"	
Northing:	385930.4904	0.011
Easting:	3299893.3286	0.010
Convergence:	-0°00'01.0157"	
Scale Factor:	1.000160000013	
Ellipsoid Height:	3923.0177	0.020
Orthometric Height:	3987.3618	0.033
Geoid Height:	-64.3441	



## CONTROL MARK DATA

NAME OF MARK: 17123504 COUNTY: DESCHUTES  
 MARK SET BY: UNKNOWN STATE: OREGON  
 DATE OF MARK: 1975+- COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 961

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

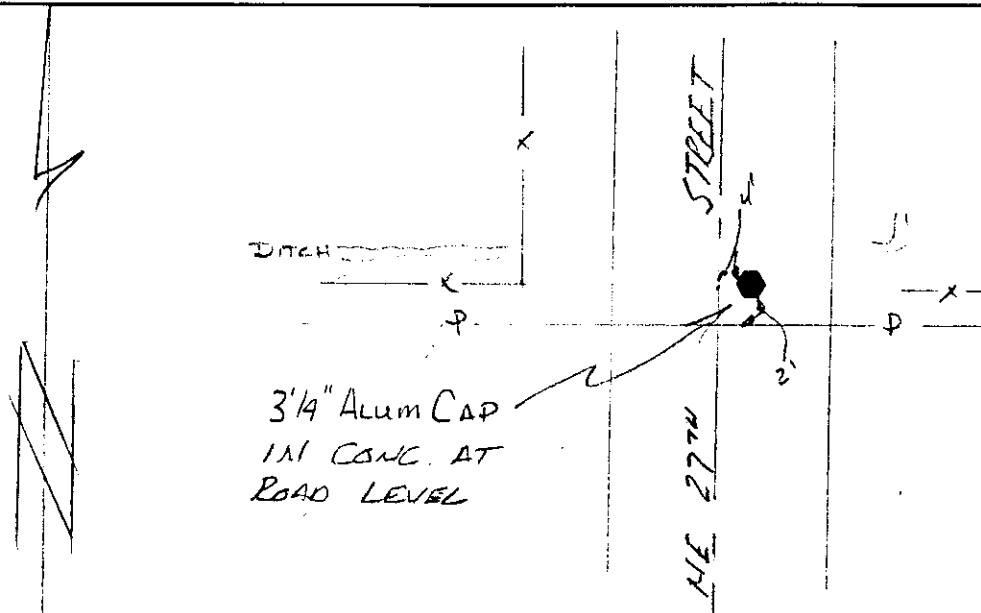
MARK: 17123504 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.803464"	ONE
Longitude:	121°15'12.636731"	SIGMA
		ERROR
Northing:	383285.7664	0.013
Easting:	3307842.2532	0.010
Convergence:	+0°01'14.6500"	
Scale Factor:	1.000160070231	
Ellipsoid Height:	3588.6095	0.019
Orthometric Height:	3652.8348	0.032
Geoid Height:	-64.2253	

## CONTROL MARK DATA

NAME OF MARK: 17123540 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. PUBLIC WORKS STATE: OREGON  
 DATE OF MARK: 4/05/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 738

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.600000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

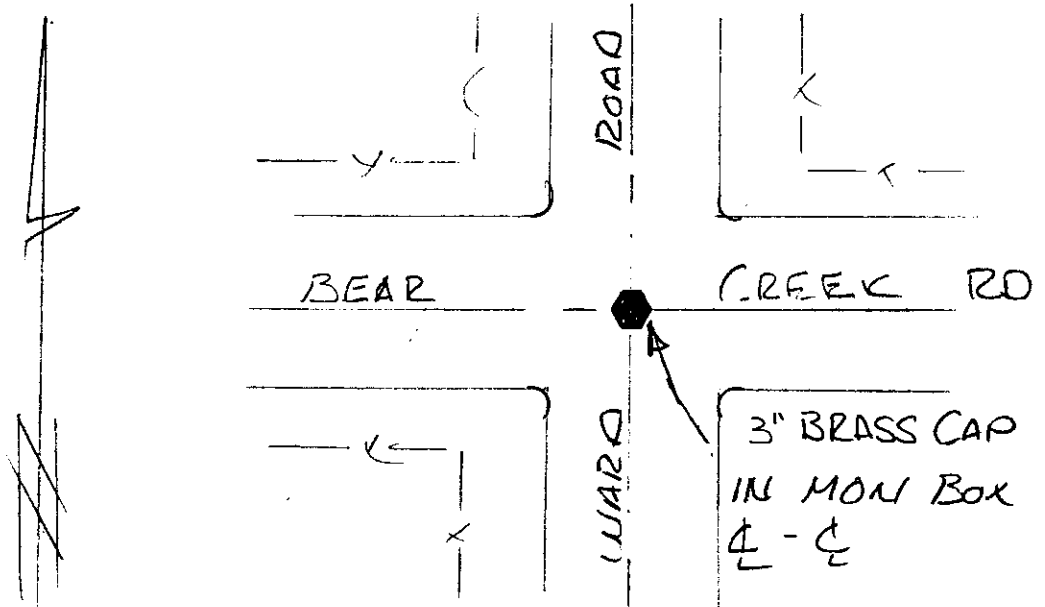
MARK: 17123540 HORIZONTAL ORDER: SECOND

Latitude:	44°03'30.751084"	ONE
Longitude:	121°15'49.523986"	SIGMA
		ERROR
Northing:	385912.9	0.016
Easting:	3305147.2326	0.013
Convergence:	+0°00'49.0085"	
Scale Factor:	1.000160030255	
Ellipsoid Height:	3546.8667	0.023
Orthometric Height:	3611.1706	0.023
Geoid Height:	-64.3039	

## CONTROL MARK DATA

NAME OF MARK: 17123600 COUNTY: DESCHUTES  
 MARK SET BY: LS 2140 THOMAS BLUST STATE: OREGON  
 DATE OF MARK: 8/08/91 COUNTRY: U.S.A.  
 LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1070

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

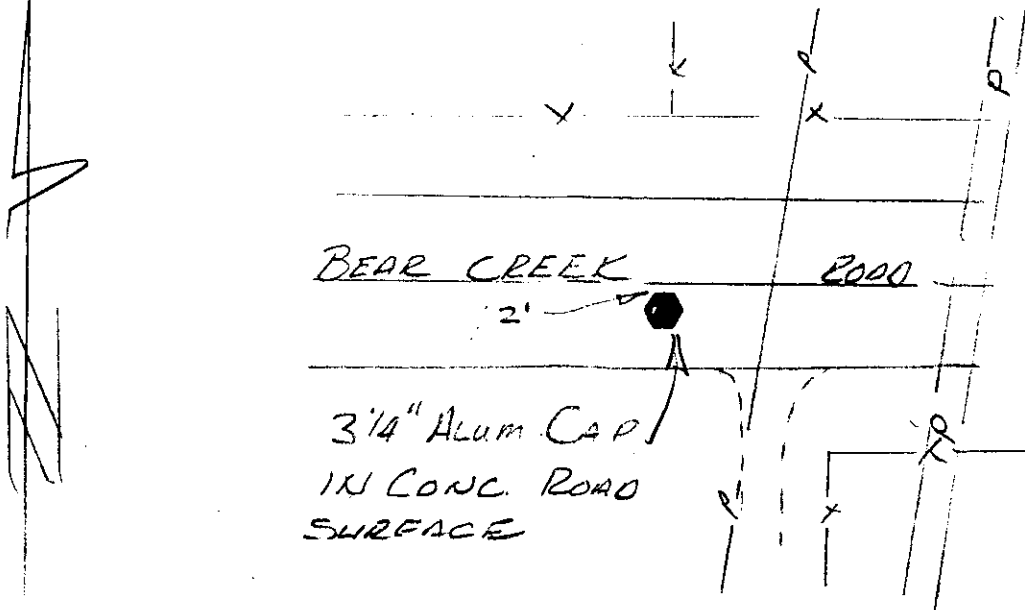
MARK: 17123600 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.661235"	ONE
Longitude:	121°14'36.379111"	SIGMA
Northing:	383272.482	ERROR
Easting:	3310490.6654	0.014
Convergence:	+0°01'39.8599"	0.010
Scale Factor:	1.000160125675	
Ellipsoid Height:	3556.5736	0.020
Orthometric Height:	3620.7837	0.032
Geoid Height:	-64.2101	

## CONTROL MARK DATA

NAME OF MARK: 17123604 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: QCRR 919

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

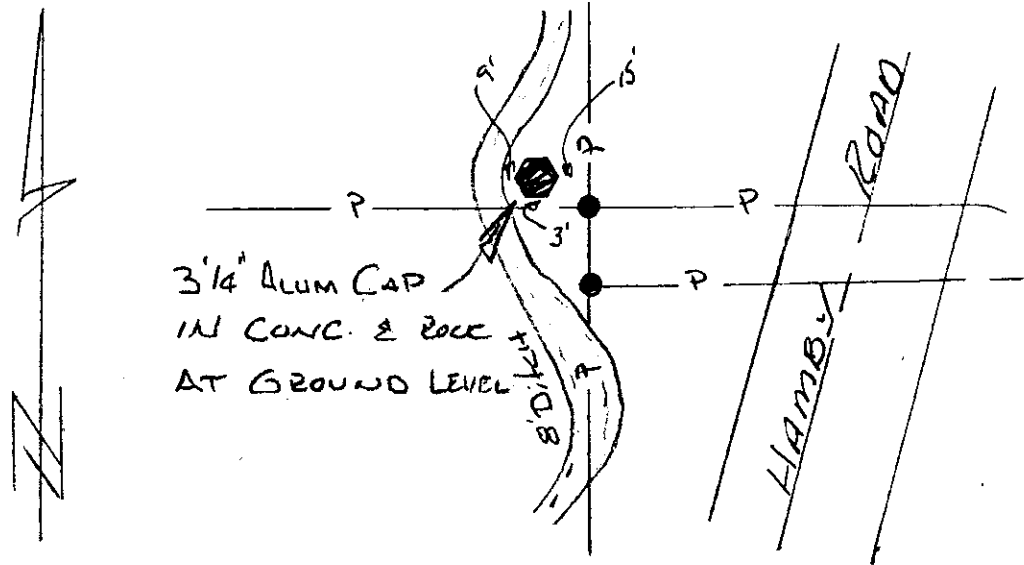
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17123604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.431192"	ONE SIGMA ERROR
Longitude:	121°14'00.494161"	
Northing:	383250.6111	0.015
Easting:	3313111.8651	0.011
Convergence:	+0°02'04.8107"	
Scale Factor:	1.000160196324	
Ellipsoid Height:	3564.7298	0.021
Orthometric Height:	3628.9214	0.033
Geoid Height:	-64.1916	

## CONTROL MARK DATA

NAME OF MARK: 17123640 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/09/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 36 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 962

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17123640 HORIZONTAL ORDER: FIRST

Latitude:	44°03'30.704989"	ONE SIGMA ERROR
Longitude:	121°14'36.753349"	
Northing:	385910.1463	0.008
Easting:	3310462.0558	0.007
Convergence:	+0°01'39.6127"	
Scale Factor:	1.000160124991	
Ellipsoid Height:	3547.9498	0.015
Orthometric Height:	3612.2165	0.029
Geoid Height:	-64.2667	

## CONTROL MARK DATA

NAME OF MARK: 17130600 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 6 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1195

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

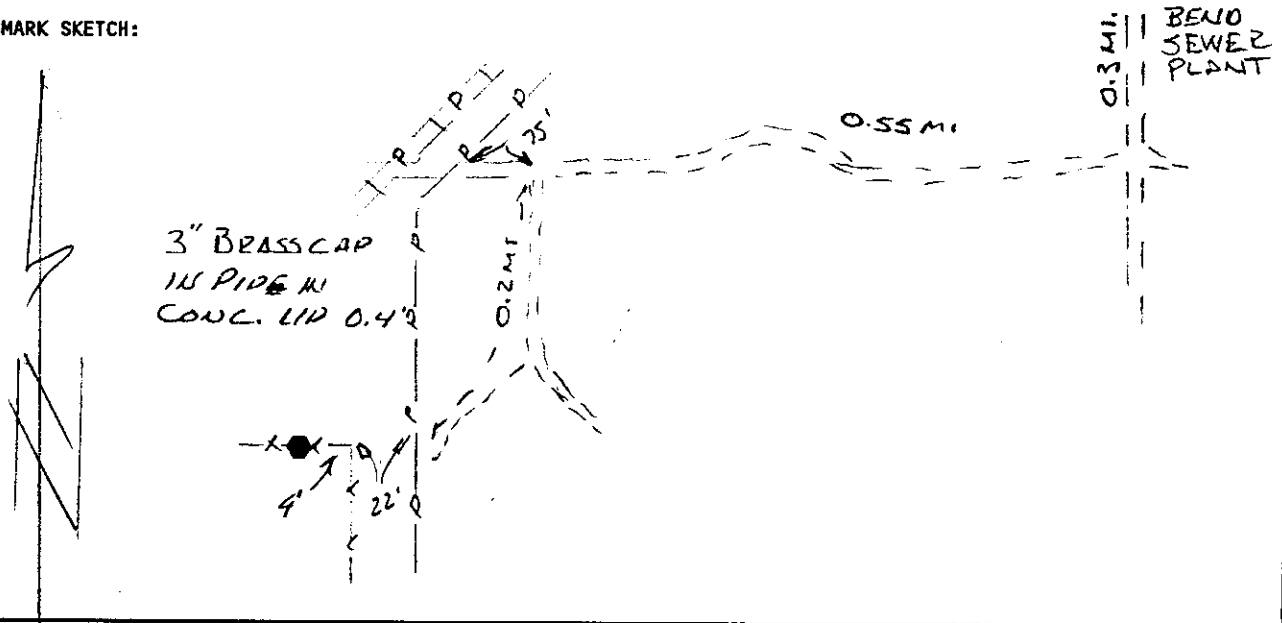
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17130600</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°07'24.905868"	ONE SIGMA ERROR
Longitude:	121°13'24.394975"	
Northing:	409633.0549	0.016
Easting:	3315729.5166	0.014
Convergence:	+0°02'30.1060"	
Scale Factor:	1.000160282532	
Ellipsoid Height:	3307.7161	0.033
Orthometric Height:	3372.3987	0.042
Geoid Height:	-64.6826	

## CONTROL MARK DATA

NAME OF MARK: 17130700 COUNTY: DESCHUTES  
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 7 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 102

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

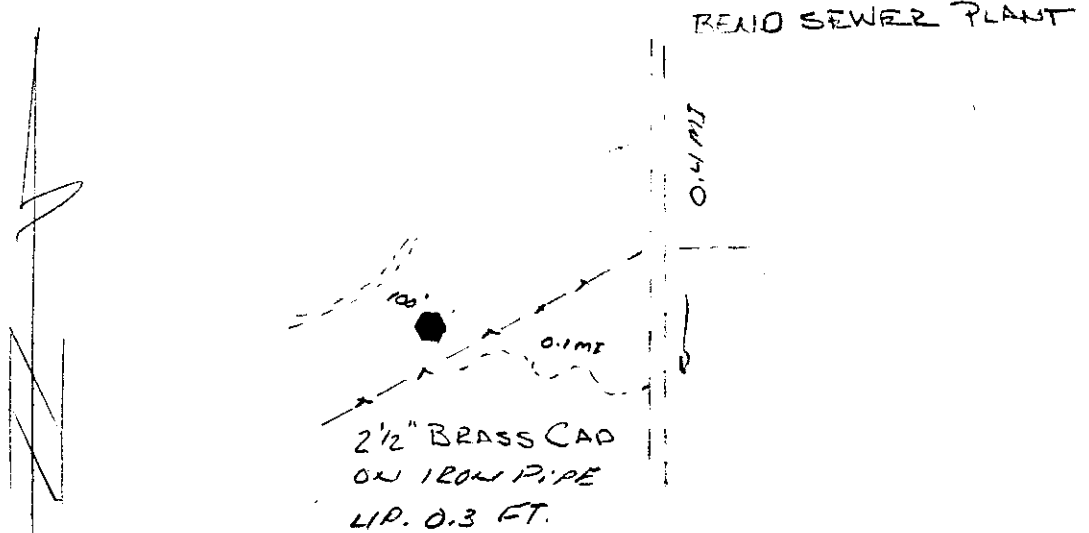
MARK: 17130700 HORIZONTAL ORDER: FIRST

Latitude:	44°06'32.883934"	ONE SIGMA ERROR
Longitude:	121°13'24.535688"	
Northing:	404364.2765	0.014
Easting:	3315723.0821	0.012
Convergence:	+0°02'29.9691"	
Scale Factor:	1.000160282302	
Ellipsoid Height:	3336.4701	0.024
Orthometric Height:	3401.0528	0.035
Geoid Height:	-64.5827	

## CONTROL MARK DATA

NAME OF MARK: 17130704 COUNTY: DESCHUTES  
 MARK SET BY: LS 1046 MICHAEL TYE STATE: OREGON  
 DATE OF MARK: 08/1978 COUNTRY: U.S.A.  
 LOCATION: SECTION 7 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3119

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17130704 HORIZONTAL ORDER: FIRST

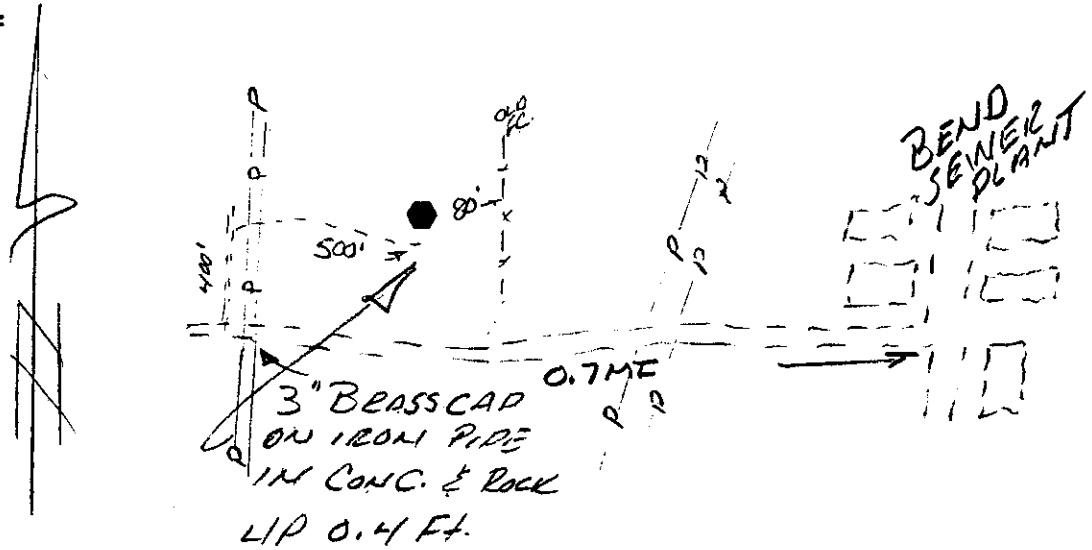
		ONE SIGMA ERROR
Latitude:	44°06'32.752353"	
Longitude:	121°12'48.828802"	
Northing:	404353.0015	0.014
Easting:	3318328.7328	0.012
Convergence:	+0°02'54.8219"	
Scale Factor:	1.000160383622	
Ellipsoid Height:	3329.5325	0.023
Orthometric Height:	3394.0803	0.034
Geoid Height:	-64.5478	



**CONTROL MARK DATA**

NAME OF MARK: 17130740 COUNTY: DESCHUTES  
MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON  
DATE OF MARK: 1980 COUNTRY: U.S.A.  
LOCATION: SECTION 7 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 099

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

**GEOIDIC AND MAPPING COORDINATES**

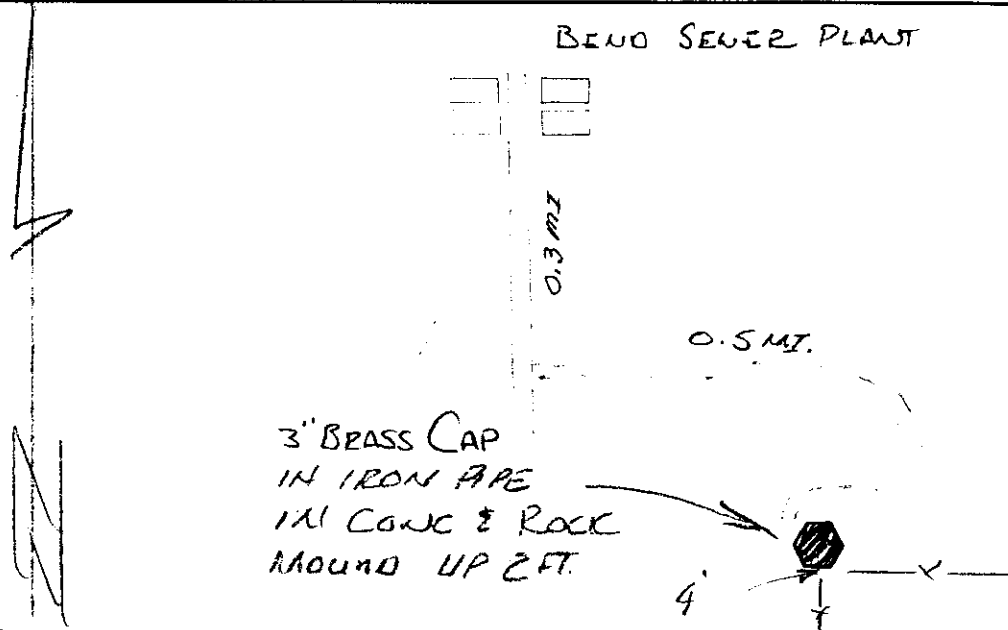
MARK: 17130740 HORIZONTAL ORDER: FIRST

Latitude:	44°06'58.883317"	ONE SIGMA ERROR
Longitude:	121°13'24.416071"	
Northing:	406997.4934	0.018
Easting:	3315729.8952	0.016
Convergence:	+0°02'30.0718"	
Scale Factor:	1.000160282546	
Ellipsoid Height:	3289.0582	0.035
Orthometric Height:	3353.6909	0.043
Geoid Height:	-64.6327	

## CONTROL MARK DATA

NAME OF MARK: 17130800 COUNTY: DESCHUTES  
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 8 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3105

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

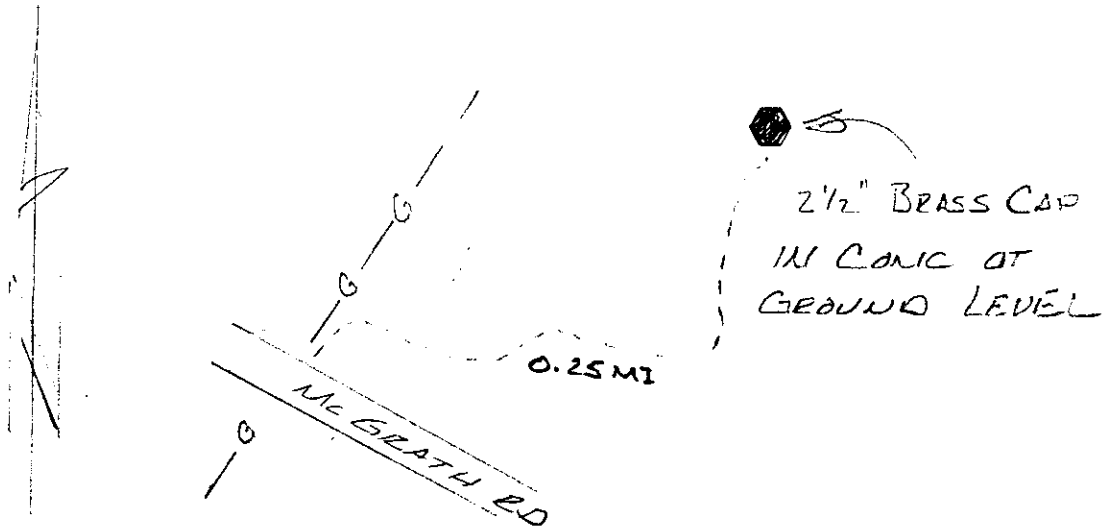
MARK: 17130800 HORIZONTAL ORDER: FIRST

Latitude:	44°06'32.864865"	ONE
Longitude:	121°12'12.227270"	SIGMA
Northing:	404366.8254	ERROR
Easting:	3320999.6479	0.015
Convergence:	+0°03'20.2977"	0.013
Scale Factor:	1.000160503573	
Ellipsoid Height:	3311.5213	0.026
Orthometric Height:	3376.0374	0.036
Geoid Height:	-64.5161	

## CONTROL MARK DATA

NAME OF MARK: 17130804 COUNTY: DESCHUTES  
 MARK SET BY: LS 1678 GARY HICKMAN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 8 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3105

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

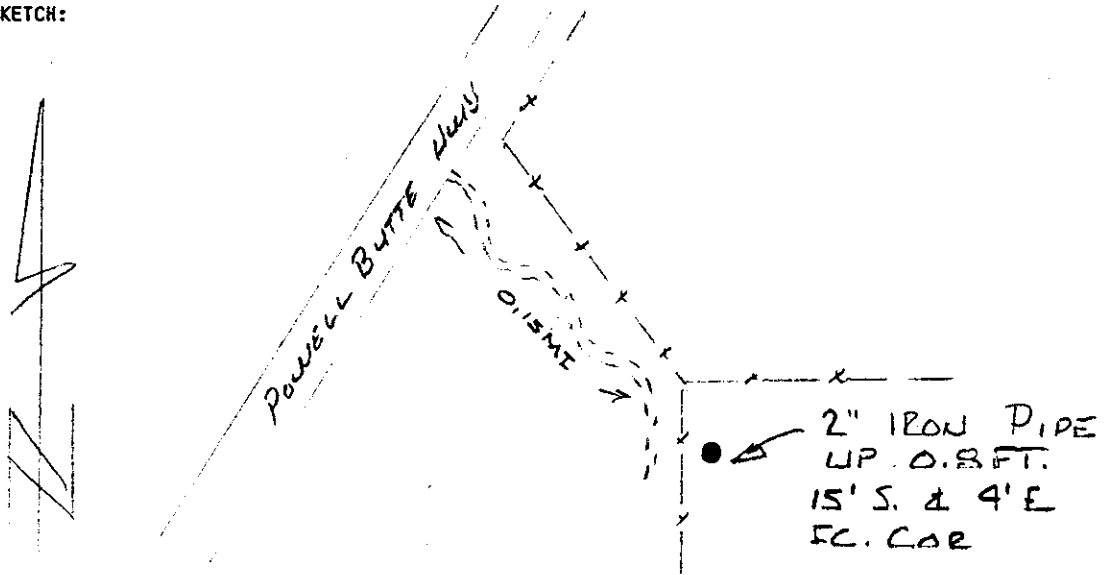
MARK: 17130804 HORIZONTAL ORDER: FIRST

Latitude:	44°06'32.925601"	ONE
Longitude:	121°11'35.920500"	SIGMA
Northing:	404375.7118	ERROR
Easting:	3323649.0562	0.015
Convergence:	+0°03'45.5683"	0.013
Scale Factor:	1.000160638655	
Ellipsoid Height:	3319.1952	0.025
Orthometric Height:	3383.6731	0.035
Geoid Height:	-64.4778	

## CONTROL MARK DATA

NAME OF MARK: 17130900 COUNTY: DESCHUTES  
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON  
 DATE OF MARK: 3/10/66 COUNTRY: U.S.A.  
 LOCATION: SECTION 9 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

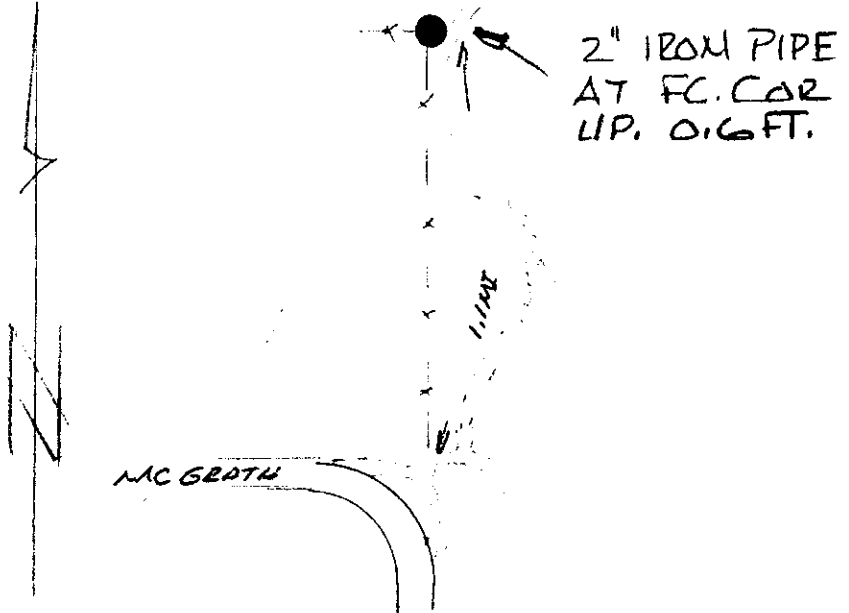
MARK: 17130900 HORIZONTAL ORDER: FIRST

Latitude:	44°06'32.698838"	ONE SIGMA ERROR
Longitude:	121°10'59.533657"	
Northing:	404355.8121	0.014
Easting:	3326304.3416	0.011
Convergence:	+0°04'10.8943"	
Scale Factor:	1.000160790121	
Ellipsoid Height:	3297.102	0.024
Orthometric Height:	3361.5449	0.034
Geoid Height:	-64.4429	

## CONTROL MARK DATA

NAME OF MARK: 17131000 COUNTY: DESCHUTES  
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON  
 DATE OF MARK: 03/10/66 COUNTRY: U.S.A.  
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

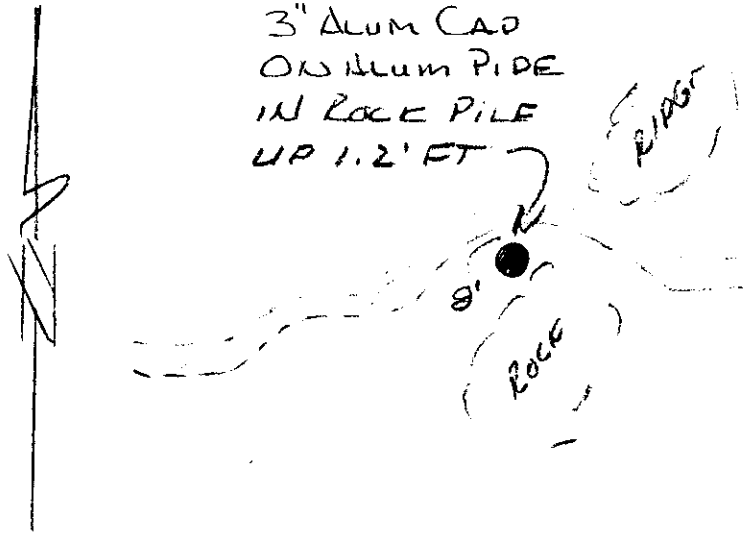
MARK: 17131000 HORIZONTAL ORDER: FIRST

Latitude:	44°06'32.843655"	ONE
Longitude:	121°09'47.367736"	SIGMA
Northing:	404377.5259	ERROR
Easting:	3331570.4904	0.019
Convergence:	+0°05'01.1240"	0.014
Scale Factor:	1.000161138155	
Ellipsoid Height:	3302.9937	0.034
Orthometric Height:	3367.3602	0.042
Geoid Height:	-64.3665	

### CONTROL MARK DATA

NAME OF MARK: 17131400 COUNTY: DESCHUTES  
MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON  
DATE OF MARK: 03/27/70 COUNTRY: U.S.A.  
LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: CS 3167

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

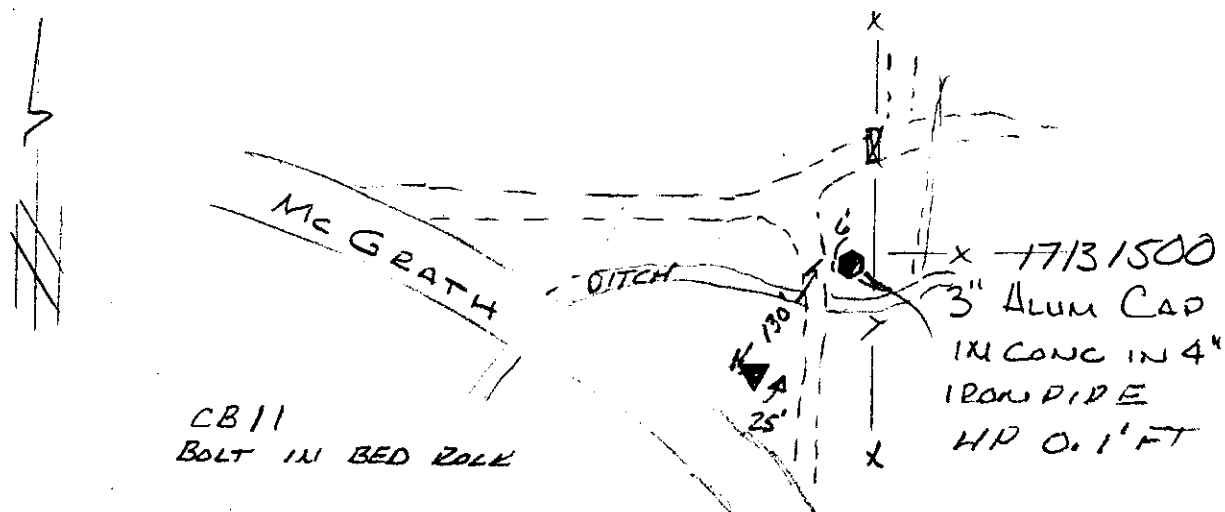
MARK: 17131400 HORIZONTAL ORDER: FIRST

Latitude:	44°05'40.931704"	ONE SIGMA ERROR
Longitude:	121°08'35.460854"	
Northing:	399128.2041	0.022
Easting:	3336826.7045	0.019
Convergence:	+0°05'51.0821"	
Scale Factor:	1.000161548695	
Ellipsoid Height:	3247.1289	0.038
Orthometric Height:	3311.3452	0.045
Geoid Height:	-64.2163	

## CONTROL MARK DATA

NAME OF MARK: 17131500 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 6/1981 COUNTRY: U.S.A.  
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1061

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

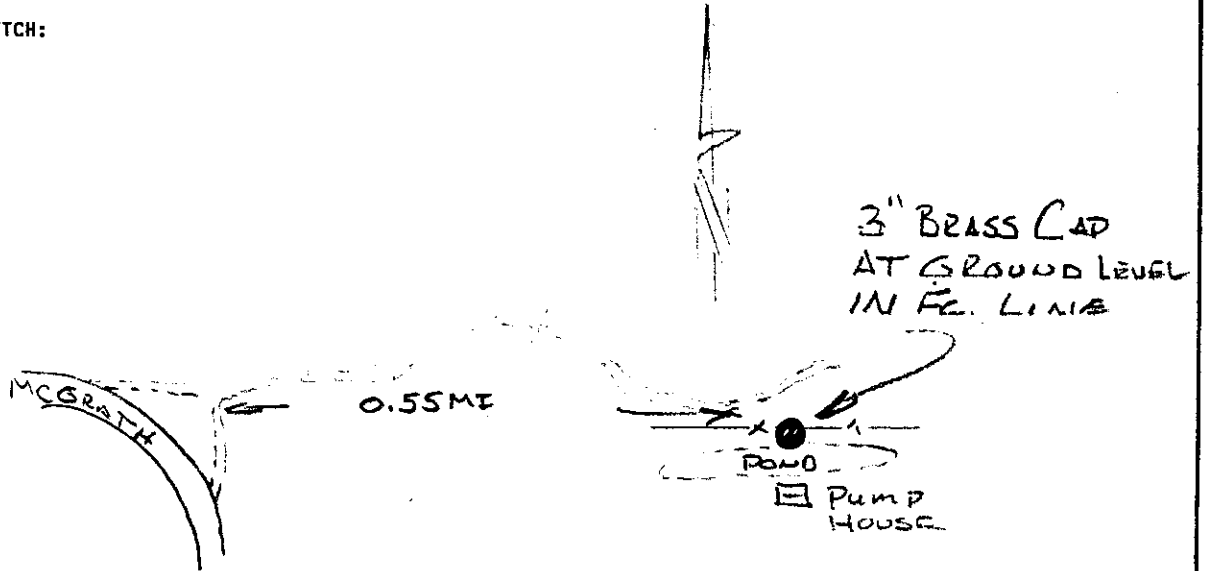
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17131500</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°05'40.672513"	ONE SIGMA ERROR
Longitude:	121°09'47.464309"	
Northing:	399093.6462	0.013
Easting:	3331571.1544	0.005
Convergence:	+0°05'00.9782"	
Scale Factor:	1.000161138207	
Ellipsoid Height:	3289.8544	0.015
Orthometric Height:	3354.1408	0.015
Geoid Height:	-64.2864	

## CONTROL MARK DATA

NAME OF MARK: 17131504 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1/13/91 COUNTRY: U.S.A.  
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1168

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17131504 HORIZONTAL ORDER: FIRST

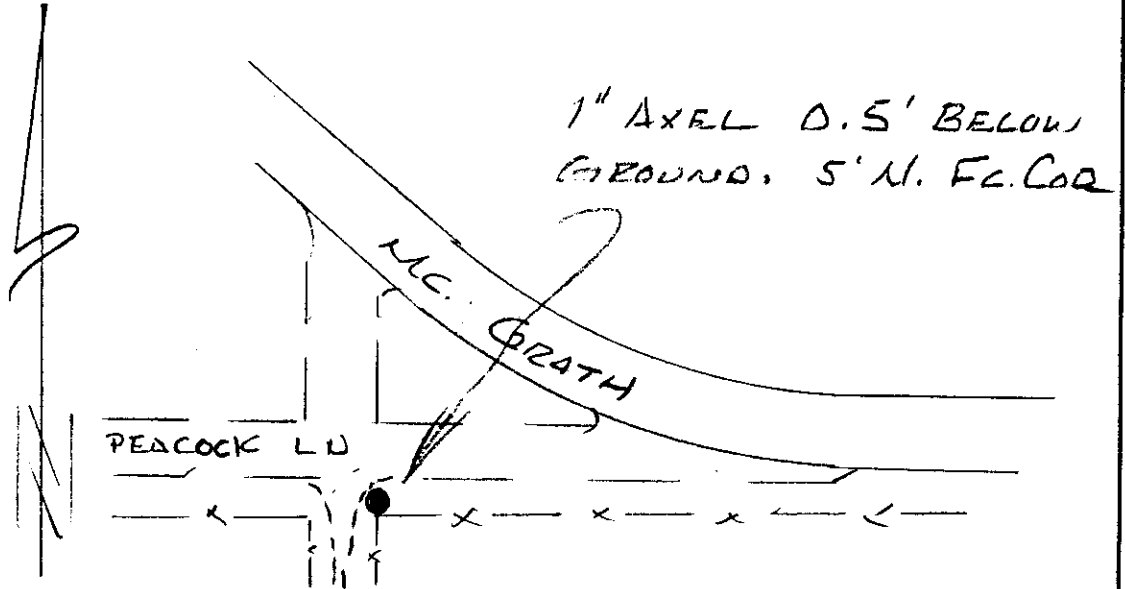
Latitude:	44°05'40.803169"	ONE SIGMA ERROR
Longitude:	121°09'11.460341"	
Northing:	399110.8732	0.018
Easting:	3334199.0944	0.015
Convergence:	+0°05'26.0317"	
Scale Factor:	1.000161335579	
Ellipsoid Height:	3256.0795	0.031
Orthometric Height:	3320.3341	0.040
Geoid Height:	-64.2545	



## CONTROL MARK DATA

NAME OF MARK: 17131600 COUNTY: DESCHUTES  
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON  
 DATE OF MARK: 03/10/66 COUNTRY: U.S.A.  
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

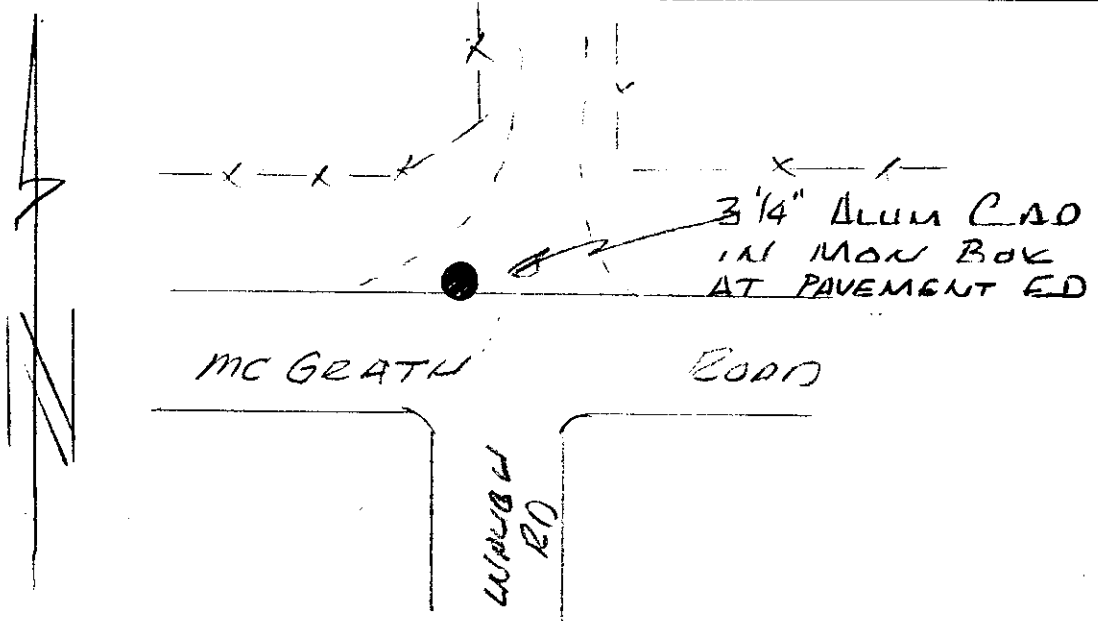
MARK: 17131600 HORIZONTAL ORDER: FIRST

Latitude:	44°05'40.540368"	ONE
Longitude:	121°10'59.610936"	SIGMA
		ERROR
Northing:	399073.2193	0.013
Easting:	3326305.1257	0.012
Convergence:	+0°04'10.7751"	
Scale Factor:	1.000160790171	
Ellipsoid Height:	3311.4269	0.022
Orthometric Height:	3375.783	0.033
Geoid Height:	-64.3561	

## CONTROL MARK DATA

NAME OF MARK: 17131604 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1191

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

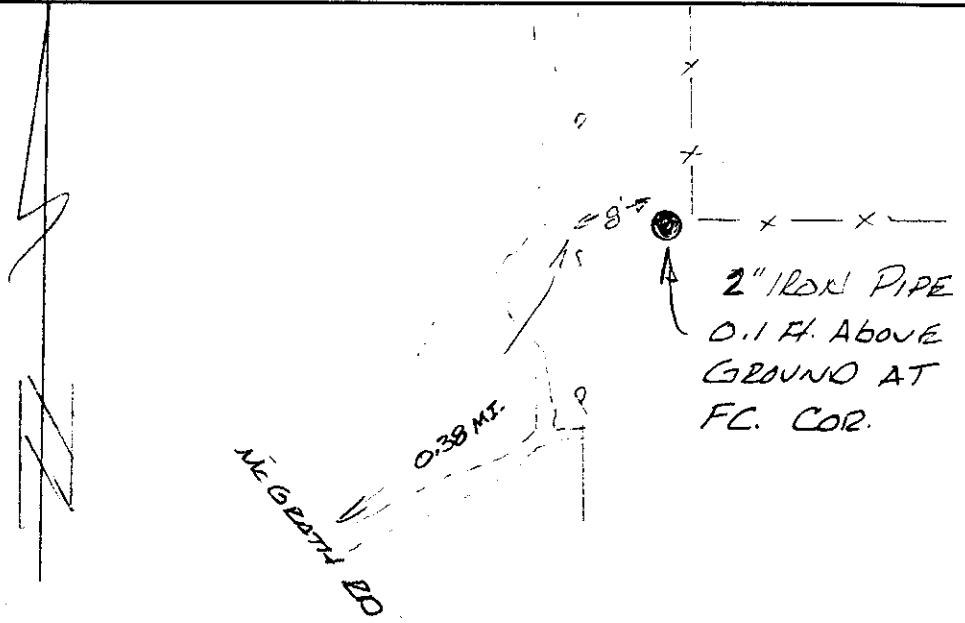
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17131604</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.609797"	ONE SIGMA ERROR
Longitude:	121°10'23.535647"	
Northing:	399083.6127	0.014
Easting:	3328938.2846	0.014
Convergence:	+0°04'35.8780"	
Scale Factor:	1.000160956281	
Ellipsoid Height:	3311.2124	0.025
Orthometric Height:	3375.5368	0.035
Geoid Height:	-64.3245	

## CONTROL MARK DATA

NAME OF MARK: 17131640 COUNTY: DESCHUTES  
 MARK SET BY: LS 0599 JAMES BUSSARD STATE: OREGON  
 DATE OF MARK: 03/10/66 COUNTRY: U.S.A.  
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3109

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

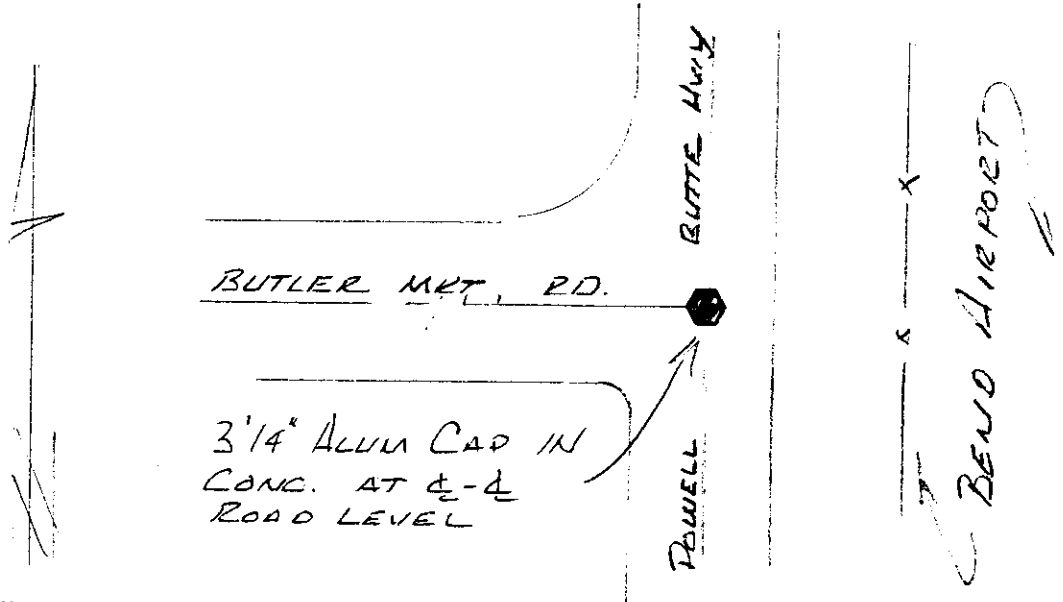
MARK: 17131640 HORIZONTAL ORDER: FIRST

Latitude:	44°06'06.620008"	ONE SIGMA ERROR
Longitude:	121°10'59.573250"	
Northing:	401714.5549	0.019
Easting:	3326304.6646	0.015
Convergence:	+0°04'10.8340"	
Scale Factor:	1.000160790142	
Ellipsoid Height:	3324.6004	0.030
Orthometric Height:	3388.9999	0.039
Geoid Height:	-64.3995	

## CONTROL MARK DATA

NAME OF MARK: 17131700 COUNTY: DESCHUTES  
 MARK SET BY: LS 0804 C. H. KETCHAM STATE: OREGON  
 DATE OF MARK: 7/11/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 17 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 764

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

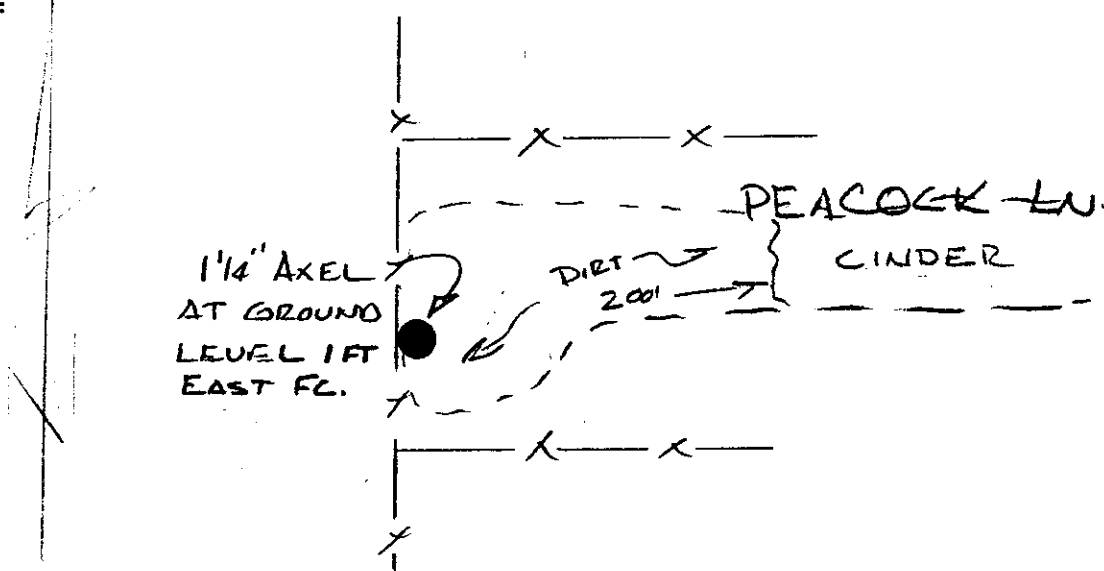
MARK: 17131700 HORIZONTAL ORDER: SECOND

Latitude:	44°05'40.717993"	ONE SIGMA ERROR
Longitude:	121°12'12.273321"	
Northing:	399085.411	0.044
Easting:	3321001.4145	0.029
Convergence:	+0°03'20.2134"	
Scale Factor:	1.000160503660	
Ellipsoid Height:	3361.5963	0.063
Orthometric Height:	3426.0679	0.063
Geoid Height:	-64.4716	

## CONTROL MARK DATA

NAME OF MARK: 17131704 COUNTY: DESCHUTES  
 MARK SET BY: UNKNOWN STATE: OREGON  
 DATE OF MARK: 1982- COUNTRY: U.S.A.  
 LOCATION: SECTION 17 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3162

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

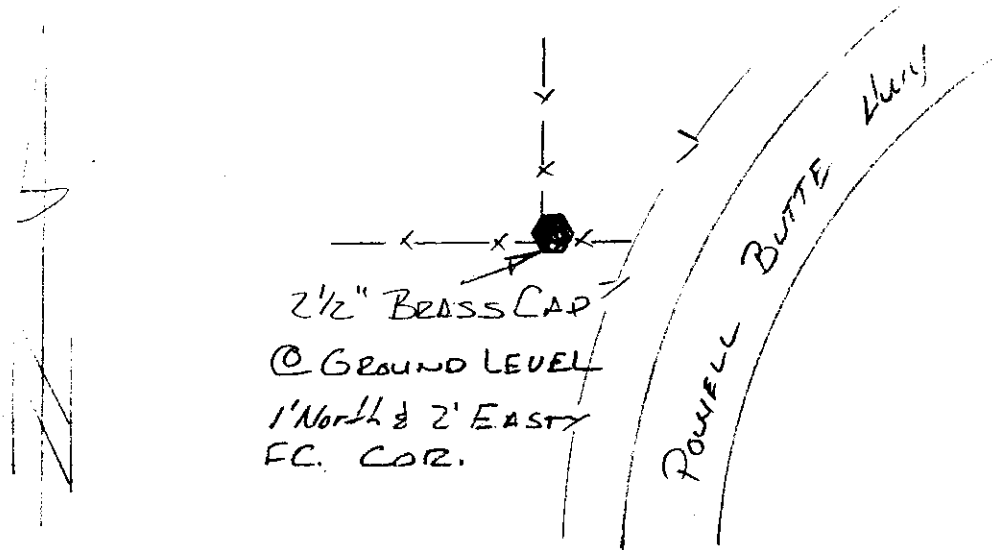
MARK: 17131704 HORIZONTAL ORDER: FIRST

Latitude:	44°05'40.631152"	ONE
Longitude:	121°11'35.944910"	SIGMA
Northing:	399079.352	ERROR
Easting:	3323653.0657	0.011
Convergence:	+0°03'45.4923"	0.010
Scale Factor:	1.000160638874	
Ellipsoid Height:	3370.8527	0.019
Orthometric Height:	3435.2405	0.031
Geoid Height:	-64.3878	

### CONTROL MARK DATA

NAME OF MARK: 17131740 COUNTY: DESCHUTES  
 MARK SET BY: LS 1046 MICHAEL TYE STATE: OREGON  
 DATE OF MARK: 08/1978 COUNTRY: U.S.A.  
 LOCATION: SECTION 17 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3119

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

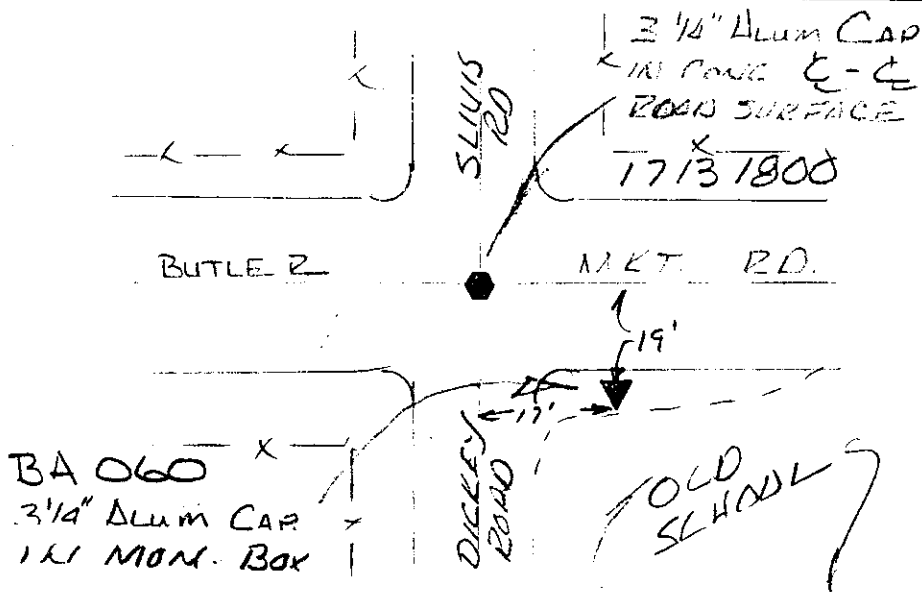
#### GEODITIC AND MAPPING COORDINATES

MARK: 17131740 HORIZONTAL ORDER: FIRST  
 Latitude: 44°06'06.790673" ONE  
 Longitude: 121°12'12.244837" SIGMA  
 Northing: 401726.0403 ERROR  
 Easting: 3321000.93 0.013  
 Convergence: +0°03'20.2594" 0.010  
 Scale Factor: 1.000160503635  
 Ellipsoid Height: 3340.8159 0.020  
 Orthometric Height: 3405.2853 0.032  
 Geoid Height: -64.4694

### CONTROL MARK DATA

NAME OF MARK: 17131800 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 162

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

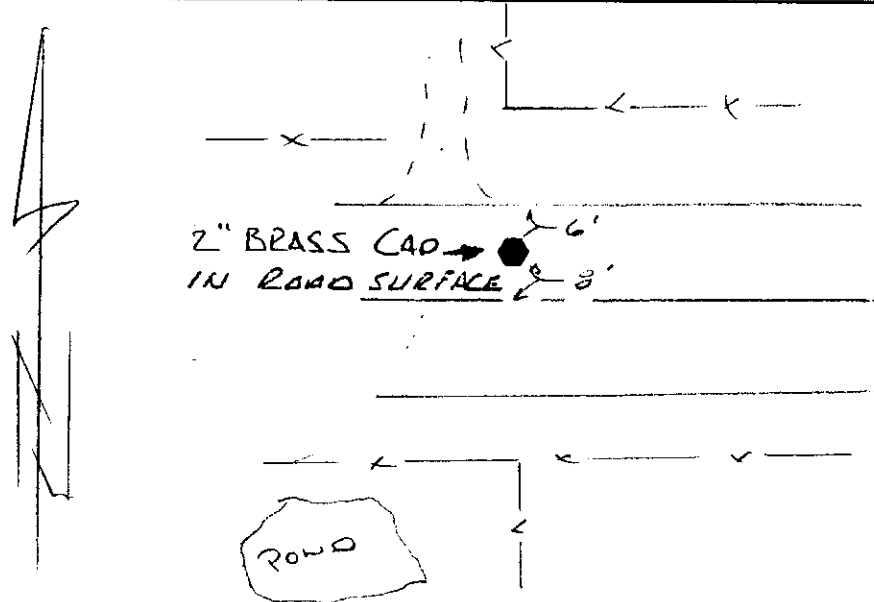
#### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17131800</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°05'40.736815"	ONE SIGMA ERROR
Longitude:	121°13'24.624401"	
Northing:	399082.8356	0.037
Easting:	3315720.4463	0.031
Convergence:	+0°02'29.8682"	
Scale Factor:	1.000160282208	
Ellipsoid Height:	3395.9355	0.045
Orthometric Height:	3460.4142	0.045
Geoid Height:	-64.4787	

## CONTROL MARK DATA

NAME OF MARK: 17131804 COUNTY: DESCHUTES  
 MARK SET BY: LS 1652 ROBERT POVEY STATE: OREGON  
 DATE OF MARK: 1983 COUNTRY: U.S.A.  
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 939

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

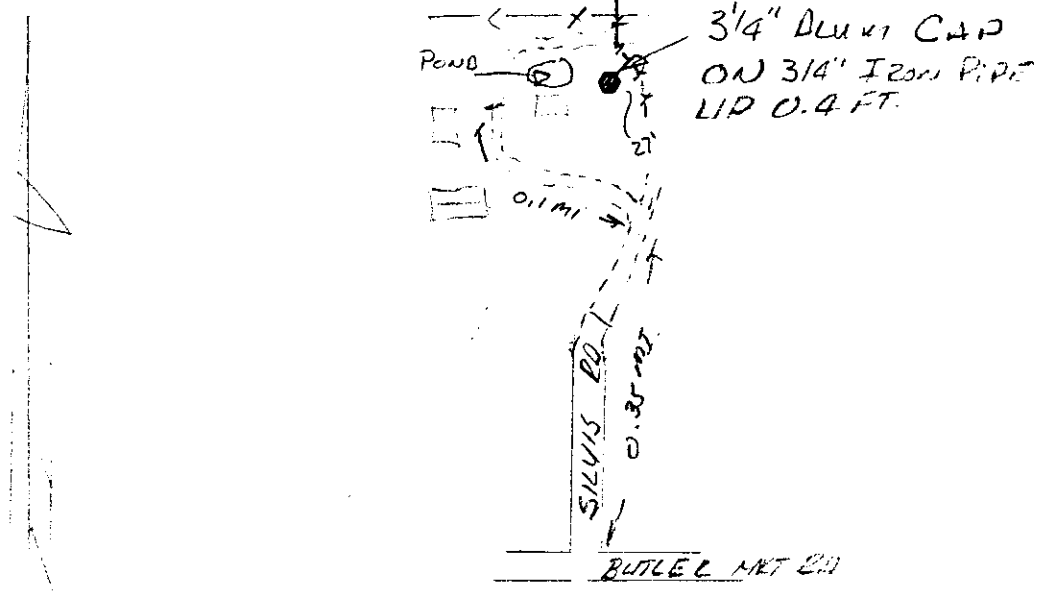
<u>MARK: 17131804</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.729099"	ONE SIGMA ERROR
Longitude:	121°12'48.439990"	
Northing:	399084.1344	0.012
Easting:	3318361.5777	0.010
Convergence:	+0°02'55.0470"	
Scale Factor:	1.000160384999	
Ellipsoid Height:	3389.0113	0.020
Orthometric Height:	3453.4624	0.031
Geoid Height:	-64.4511	



## CONTROL MARK DATA

NAME OF MARK: 17131840 COUNTY: DESCHUTES  
 MARK SET BY: LS 1020 GEORGE COLVIN STATE: OREGON  
 DATE OF MARK: 3/20/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 153

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

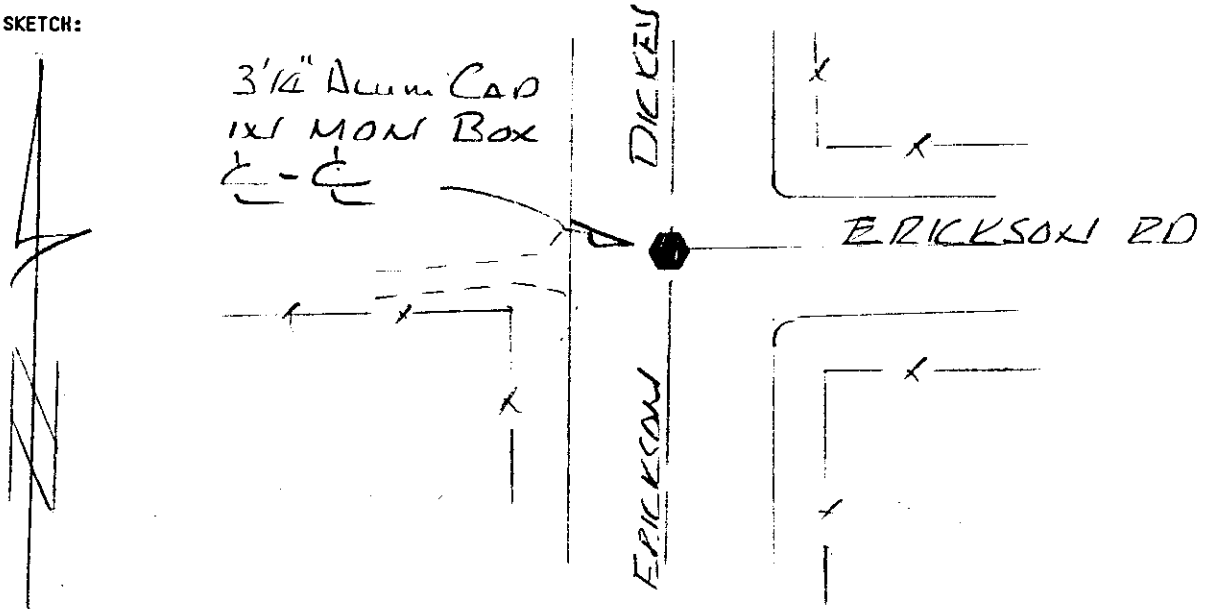
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17131840</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°06'06.795782"	ONE SIGMA ERROR
Longitude:	121°13'24.565454"	
Northing:	401722.0773	0.044
Easting:	3315722.8306	0.021
Convergence:	+0°02'29.9288"	
Scale Factor:	1.000160282293	
Ellipsoid Height:	3375.5863	0.078
Orthometric Height:	3440.1217	0.078
Geoid Height:	-64.5355	

## CONTROL MARK DATA

NAME OF MARK: 17131900 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 06/1981 COUNTRY: U.S.A.  
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1058

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

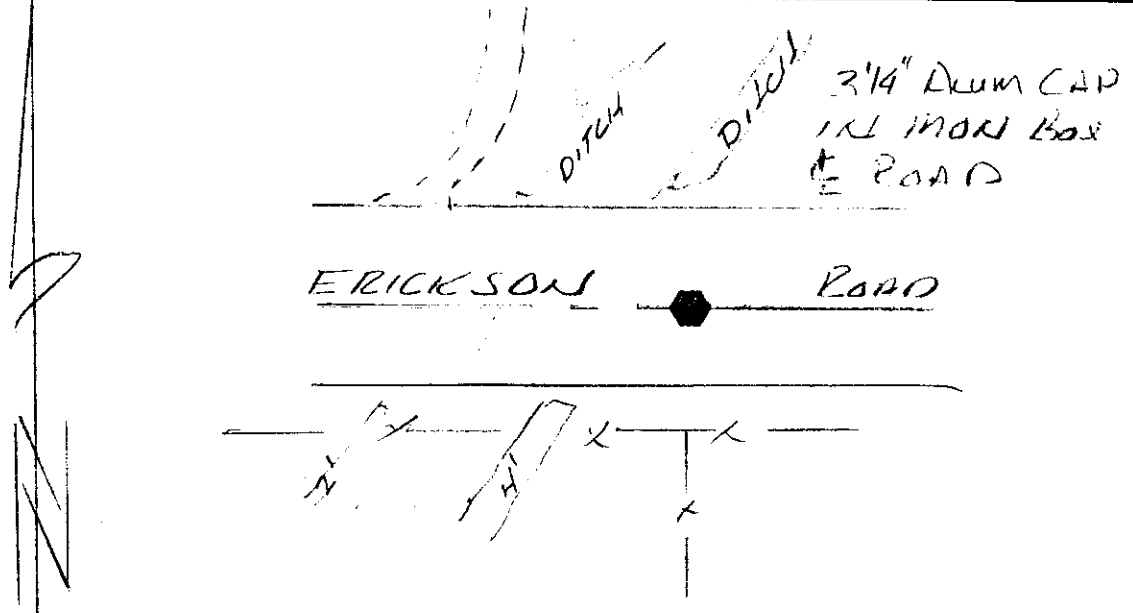
MARK: 17131900 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.504583"	ONE
Longitude:	121°13'24.357382"	SIGMA
Northing:	393792.8069	ERROR
Easting:	3315743.7842	0.011
Convergence:	+0°02'30.0148"	0.009
Scale Factor:	1.000160283048	
Ellipsoid Height:	3427.5825	0.018
Orthometric Height:	3491.9621	0.030
Geoid Height:	-64.3796	

## CONTROL MARK DATA

NAME OF MARK: 17131904 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 06/1981 COUNTRY: U.S.A.  
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: QCRR 1059

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

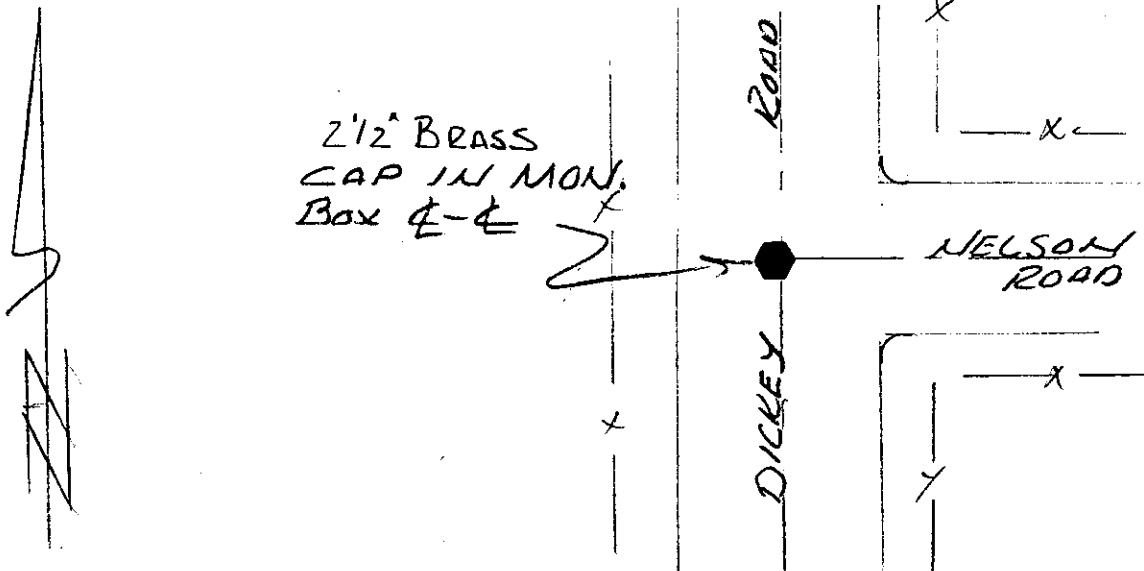
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17131904</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°04'48.506712"	ONE SIGMA ERROR
Longitude:	121°12'48.749134"	
Northing:	393795.0694	0.012
Easting:	3318343.4955	0.009
Convergence:	+0°02'54.7862"	
Scale Factor:	1.000160384243	
Ellipsoid Height:	3437.1657	0.019
Orthometric Height:	3501.5202	0.031
Geoid Height:	-64.3545	

## CONTROL MARK DATA

NAME OF MARK: 17131940 COUNTY: DESCHUTES  
 MARK SET BY: UNKNOWN STATE: OREGON  
 DATE OF MARK: 1975+- COUNTRY: U.S.A.  
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 952

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29. LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

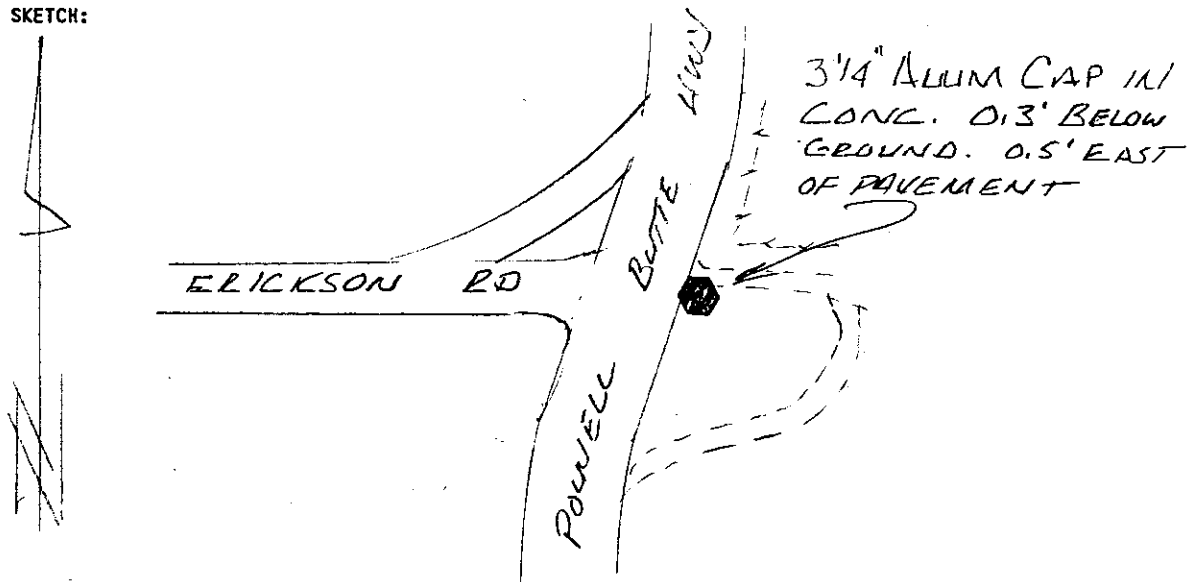
MARK: 17131940 HORIZONTAL ORDER: FIRST

		ONE
Latitude:	44°05'14.618221"	SIGMA
Longitude:	121°13'24.490583"	ERROR
Northing:	396437.5687	0.012
Easting:	3315732.1369	0.010
Convergence:	+0°02'29.9417"	
Scale Factor:	1.000160282629	
Ellipsoid Height:	3432.3248	0.021
Orthometric Height:	3496.7543	0.032
Geoid Height:	-64.4295	

## CONTROL MARK DATA

NAME OF MARK: 17132000 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/15/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 936

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

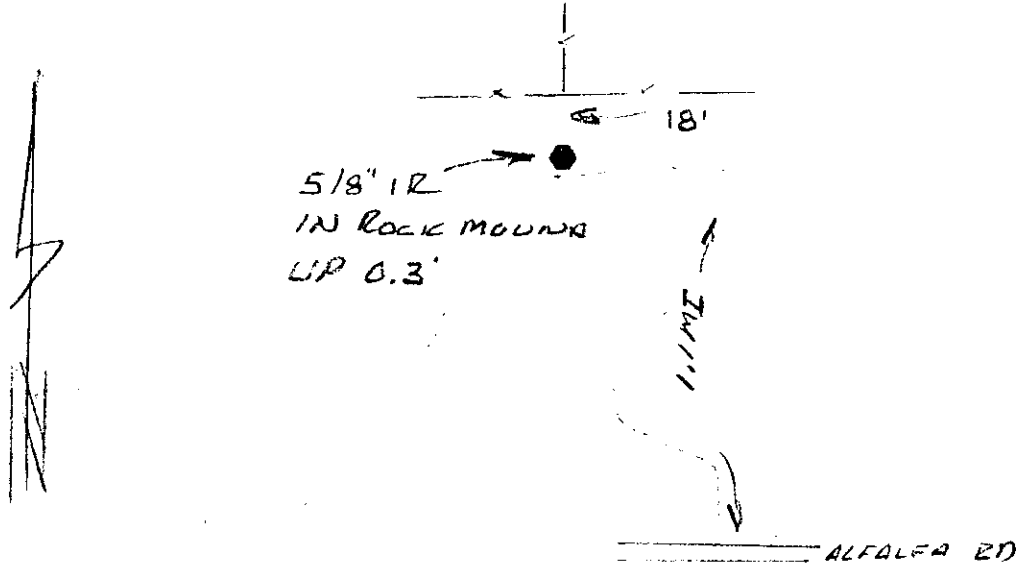
MARK: 17132000 HORIZONTAL ORDER: FIRST

		ONE SIGMA ERROR
Latitude:	44°04'48.505325"	
Longitude:	121°12'12.360051"	
Northing:	393797.3433	0.019
Easting:	3321000.2147	0.015
Convergence:	+0°03'20.1008"	
Scale Factor:	1.000160503604	
Ellipsoid Height:	3402.765	0.030
Orthometric Height:	3467.0911	0.039
Geoid Height:	-64.3261	

### CONTROL MARK DATA

NAME OF MARK: 17132004 COUNTY: DESCHUTES  
 MARK SET BY: LS 0930 RICHARD GRAUE STATE: OREGON  
 DATE OF MARK: 1973 COUNTRY: U.S.A.  
 LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3191

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17132004</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'48.406877"	ONE SIGMA ERROR
Longitude:	121°11'36.109494"	
Northing:	393790.1019	0.011
Easting:	3323646.8312	0.011
Convergence:	+0°03'45.3189"	
Scale Factor:	1.000160638539	
Ellipsoid Height:	3363.7854	0.017
Orthometric Height:	3428.0864	0.030
Geoid Height:	-64.301	

## CONTROL MARK DATA

NAME OF MARK: 17132040 COUNTY: DESCHUTES  
 MARK SET BY: LS. 2033.....MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12-15-88 COUNTRY: U.S.A.  
 LOCATION: SECTION 20 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 934

MARK SKETCH:



3/4" ALUM CAP  
 IN CONC. AT  
 C - C RE. LEVEL

BUTTE HWY  
 POWELL

BEND AIRPORT

NELSON

RD

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

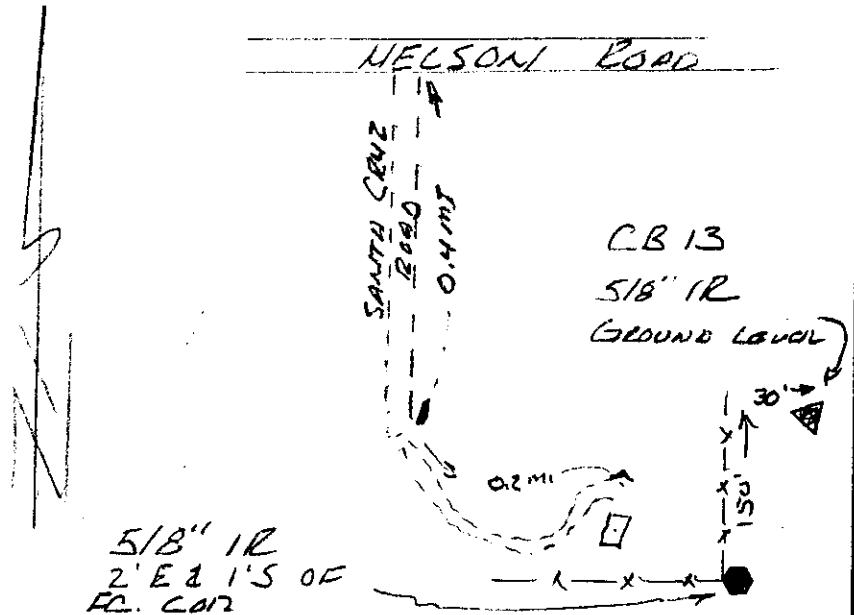
MARK: 17132040 HORIZONTAL ORDER: FIRST

Latitude:	44°05'14.636650"	ONE SIGMA ERROR
Longitude:	121°12'12.316021"	
Northing:	396443.9065	0.014
Easting:	3321000.8613	0.020
Convergence:	+0°03'20.1576"	
Scale Factor:	1.000160503634	
Ellipsoid Height:	3398.579	0.022
Orthometric Height:	3462.9518	0.033
Geoid Height:	-64.3728	

## CONTROL MARK DATA

NAME OF MARK: 17132100 COUNTY: DESCHUTES  
 MARK SET BY: LS 0980 ED GRAVES STATE: OREGON  
 DATE OF MARK: 10/30/78 COUNTRY: U.S.A.  
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3163

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEOIDIC AND MAPPING COORDINATES

MARK: 17132100 HORIZONTAL ORDER: SECOND

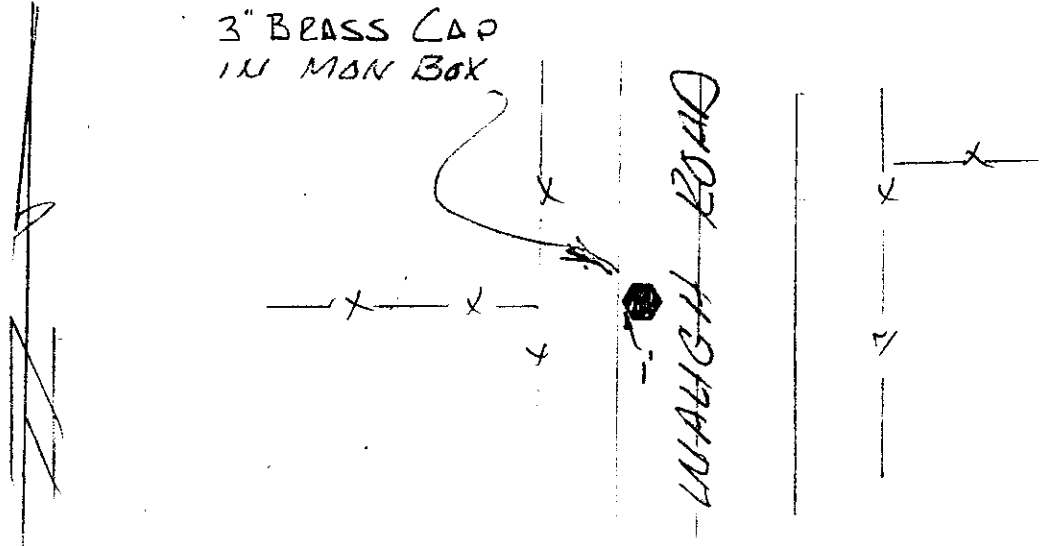
Latitude:	44°04'48.542693"	ONE SIGMA ERROR
Longitude:	121°10'59.869774"	
Northing:	393806.9092	0.044
Easting:	3326292.6302	0.021
Convergence:	+0°04'10.5298"	
Scale Factor:	1.000160789423	
Ellipsoid Height:	3377.7199	0.055
Orthometric Height:	3441.992	0.055
Geoid Height:	-64.2721	



## CONTROL MARK DATA

NAME OF MARK: 17132104 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 07/09/91 COUNTRY: U.S.A.  
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: QCRR 1065

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

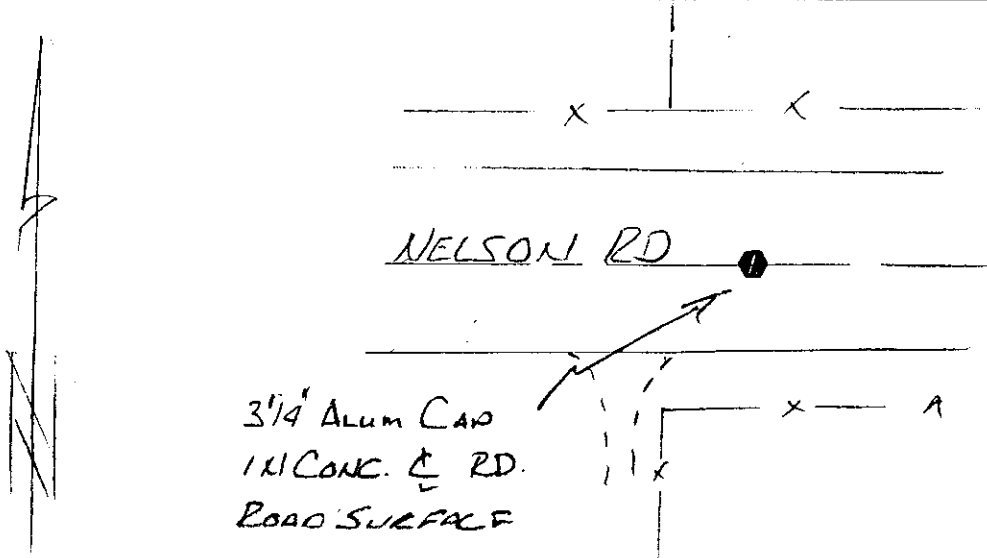
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17132104</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'48.286889"	ONE SIGMA ERROR
Longitude:	121°10'23.652381"	
Northing:	393784.3746	0.012
Easting:	3328936.8487	0.011
Convergence:	+0°04'35.7246"	
Scale Factor:	1.000160956190	
Ellipsoid Height:	3347.2101	0.022
Orthometric Height:	3411.451	0.033
Geoid Height:	-64.241	

**CONTROL MARK DATA**

NAME OF MARK: 17132140 COUNTY: DESCHUTES  
 MARK SET BY: LS 1642 ROBERT KARL STATE: OREGON  
 DATE OF MARK: 05/24/82 COUNTRY: U.S.A.  
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3162

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

GEODITIC AND MAPPING COORDINATES

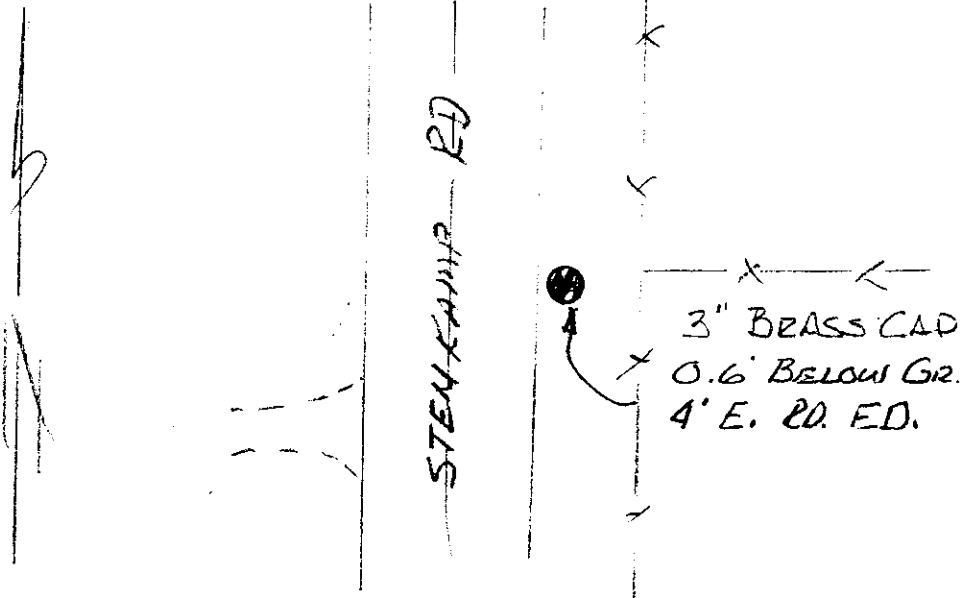
MARK: 17132140 HORIZONTAL ORDER: FIRST

Latitude:	44°05'14.612776"	ONE
Longitude:	121°10'59.741050"	SIGMA
Northing:	396447.2782	ERROR
Easting:	3326298.8198	0.013
Convergence:	+0°04'10.6520"	0.013
Scale Factor:	1.000160789793	
Ellipsoid Height:	3326.7372	0.023
Orthometric Height:	3391.0499	0.033
Geoid Height:	-64.3127	

## CONTROL MARK DATA

NAME OF MARK: 17132200 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 08/08/91 COUNTRY: U.S.A.  
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1085

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

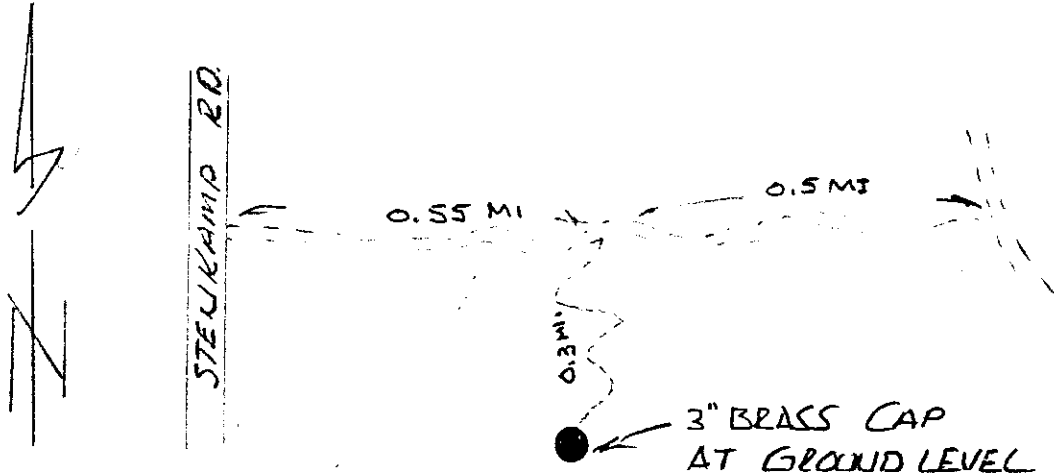
MARK: 17132200 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.435363"	ONE
Longitude:	121°09'47.399438"	SIGMA
Northing:	393803.1118	ERROR
Easting:	3331583.6094	0.013
Convergence:	+0°05'00.9447"	0.012
Scale Factor:	1.000161139109	
Ellipsoid Height:	3320.5459	0.024
Orthometric Height:	3384.7585	0.034
Geoid Height:	-64.2126	

## CONTROL MARK DATA

NAME OF MARK: 17132204 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 11/19/91 COUNTRY: U.S.A.  
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1111

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

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DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

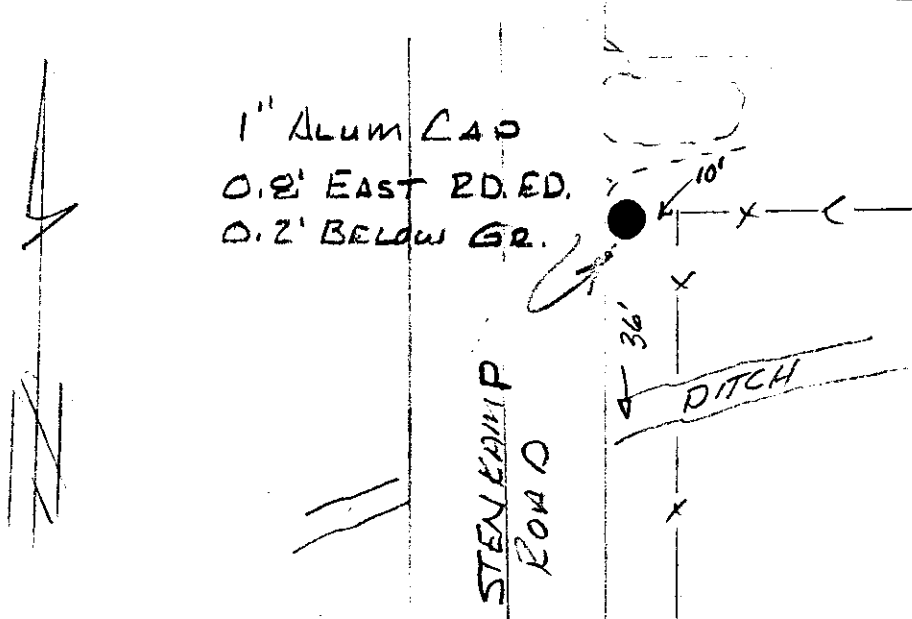
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17132204</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°04'48.583196"	ONE SIGMA ERROR
Longitude:	121°09'11.200532"	
Northing:	393822.1015	0.016
Easting:	3334226.4213	0.015
Convergence:	+0°05'26.1273"	
Scale Factor:	1.000161337718	
Ellipsoid Height:	3293.5255	0.031
Orthometric Height:	3357.7063	0.040
Geoid Height:	-64.1809	

## CONTROL MARK DATA

NAME OF MARK: 17132240 COUNTY: DESCHUTES  
 MARK SET BY: LS. 0599 JAMES BUSSARD STATE: OREGON  
 DATE OF MARK: 03/23/70 COUNTRY: U.S.A.  
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3167

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

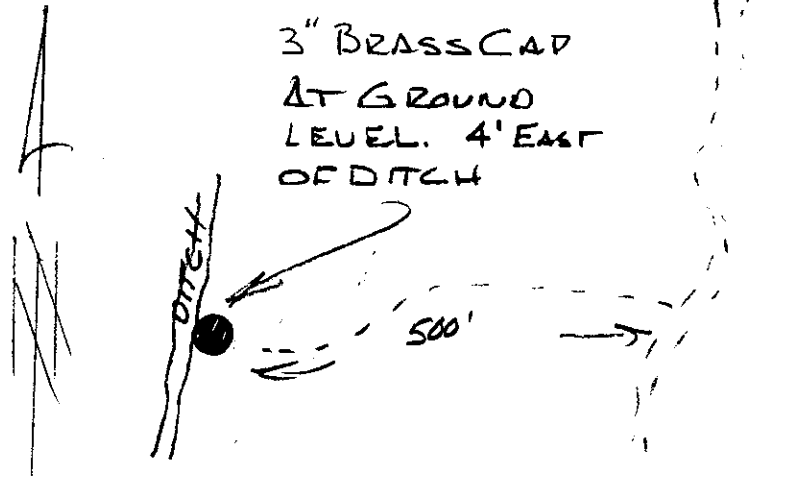
MARK: 17132240 HORIZONTAL ORDER: FIRST

Latitude:	44°05'14.554327"	ONE
Longitude:	121°09'47.432242"	SIGMA
Northing:	396448.4167	ERROR
Easting:	3331577.3549	0.013
Convergence:	+0°05'00.9612"	0.012
Scale Factor:	1.000161138656	
Ellipsoid Height:	3311.6771	0.024
Orthometric Height:	3375.9264	0.034
Geoid Height:	-64.2494	

### CONTROL MARK DATA

NAME OF MARK: 17132300 COUNTY: DESCHUTES  
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
DATE OF MARK: 11/21/91 COUNTRY: U.S.A.  
LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 1110

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEOIDIC AND MAPPING COORDINATES

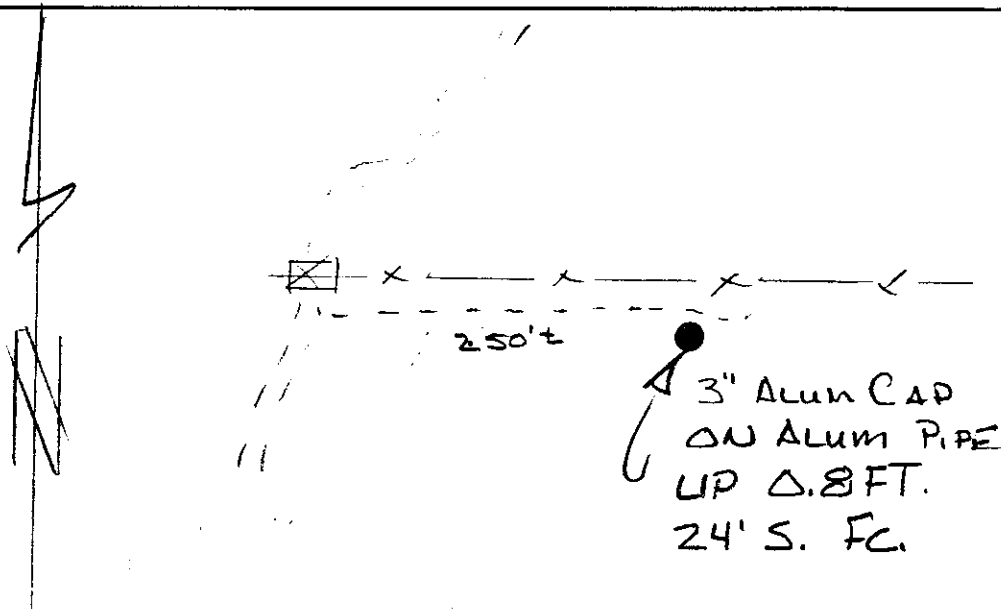
MARK: 17132300 HORIZONTAL ORDER: FIRST

Latitude:	44°04'48.648671"	ONE SIGMA ERROR
Longitude:	121°08'34.931345"	
Northing:	393833.0815	0.017
Easting:	3336874.375	0.015
Convergence:	+0°05'51.3586"	
Scale Factor:	1.000161552713	
Ellipsoid Height:	3303.9622	0.031
Orthometric Height:	3368.1113	0.040
Geoid Height:	-64.1492	

### CONTROL MARK DATA

NAME OF MARK: 17132340 COUNTY: DESCHUTES  
 MARK SET BY: J.S. 0599 JAMES BUSSARD STATE: OREGON  
 DATE OF MARK: 03/23/70 COUNTRY: U.S.A.  
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3167

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

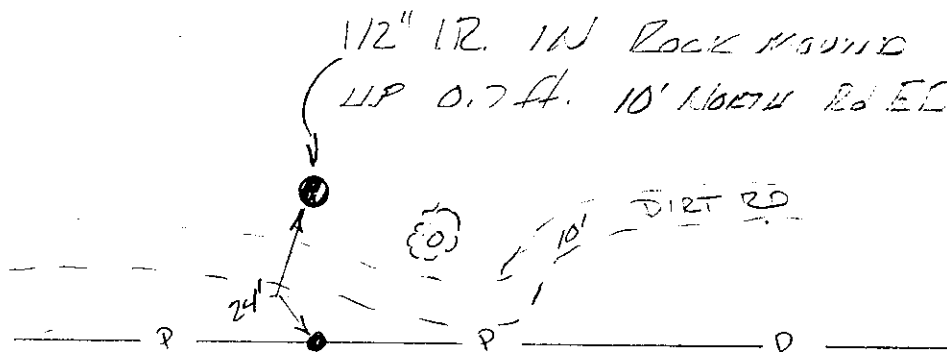
MARK: 17132340 HORIZONTAL ORDER: FIRST

Latitude:	44°05'14.823348"	ONE
Longitude:	121°08'35.234503"	SIGMA
Northing:	396483.9948	ERROR
Easting:	3336847.7285	0.019
Convergence:	+0°05'51.1937"	0.016
Scale Factor:	1.000161550467	
Ellipsoid Height:	3265.5008	0.033
Orthometric Height:	3329.6835	0.041
Geoid Height:	-64.1827	

## CONTROL MARK DATA

NAME OF MARK: 17132600 COUNTY: DESCHUTES  
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON  
 DATE OF MARK: 1968 COUNTRY: U.S.A.  
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: 17132600 HORIZONTAL ORDER: FIRST

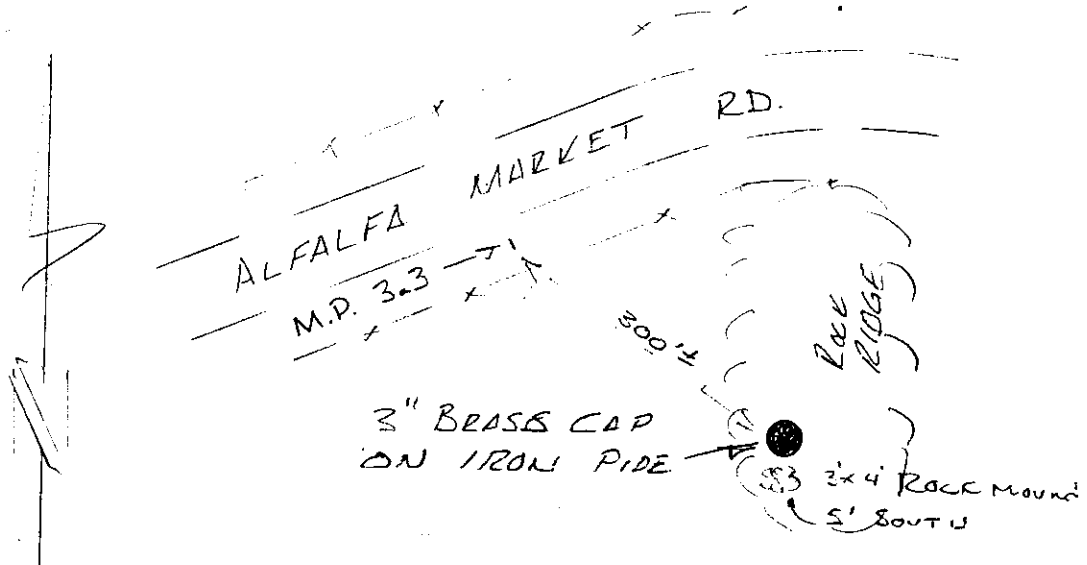
Latitude:	44°03'56.523503"	ONE
Longitude:	121°08'34.992461"	SIGMA
Northing:	388553.8873	ERROR
Easting:	3336878.9035	0.017
Convergence:	+0°05'51.2244"	0.015
Scale Factor:	1.000161553099	
Ellipsoid Height:	3361.8922	0.030
Orthometric Height:	3425.9776	0.039
Geoid Height:	-64.0853	



## CONTROL MARK DATA

NAME OF MARK: 17132640 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1197

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

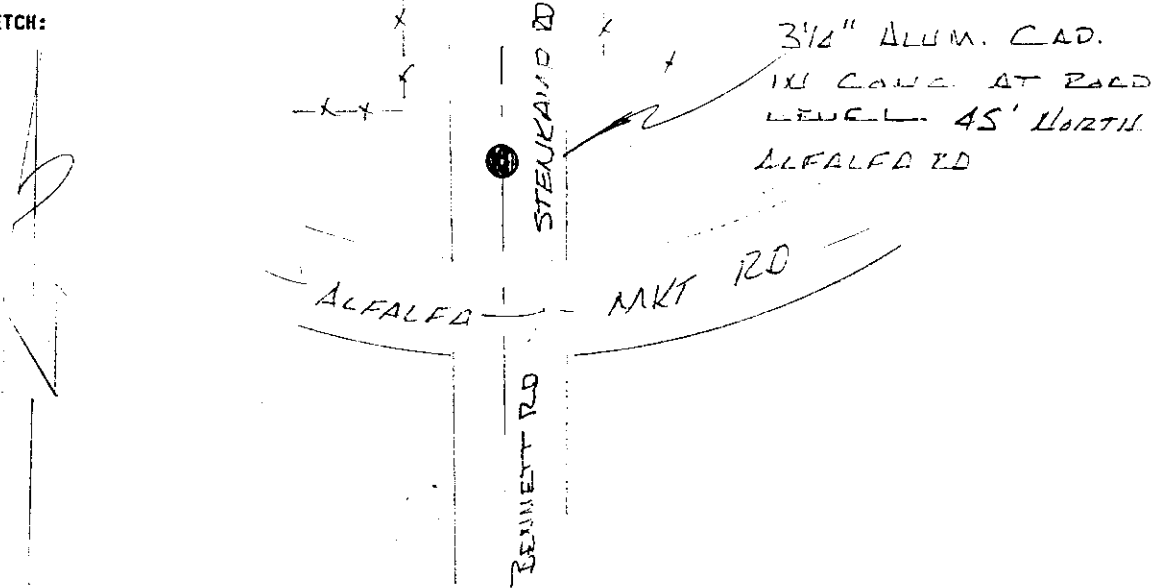
MARK: 17132640 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.553313"	ONE SIGMA ERROR
Longitude:	121°08'34.920769"	
Northing:	391190.1685	0.017
Easting:	3336879.649	0.015
Convergence:	+0°05'51.3201"	
Scale Factor:	1.000161553160	
Ellipsoid Height:	3339.7326	0.031
Orthometric Height:	3403.8548	0.039
Geoid Height:	-64.1222	

## CONTROL MARK DATA

NAME OF MARK: 17132700 COUNTY: DESCHUTES  
 MARK SET BY: LS 0702 RAYMOND OMAN STATE: OREGON  
 DATE OF MARK: 1989 COUNTRY: U.S.A.  
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 964

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

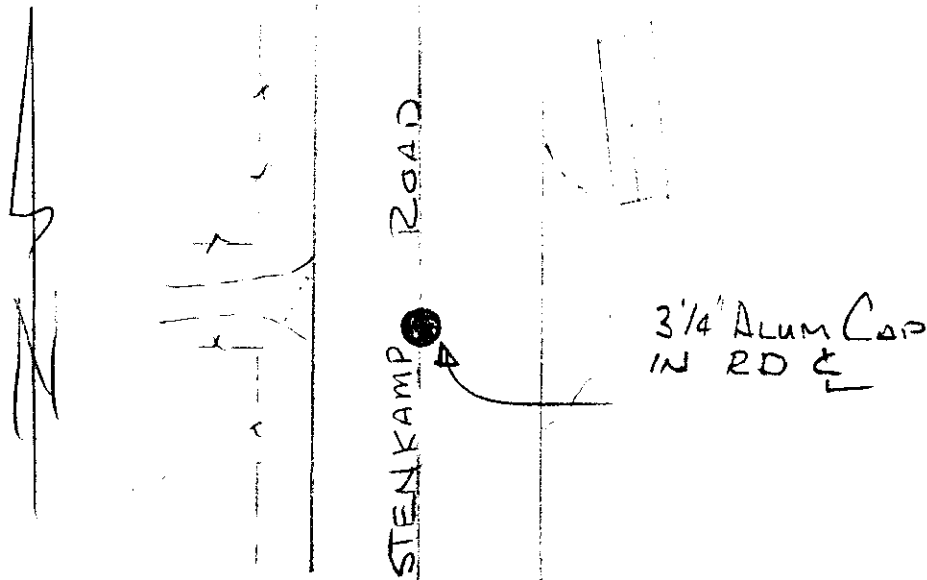
MARK: 17132700 HORIZONTAL ORDER: FIRST

Latitude:	44°03'56.339945"	ONE
Longitude:	121°09'47.587719"	SIGMA
Northing:	388526.9185	ERROR
Easting:	3331577.5569	0.014
Convergence:	+0°05'00.7352"	0.013
Scale Factor:	1.000161138676	
Ellipsoid Height:	3404.0346	0.025
Orthometric Height:	3468.1735	0.035
Geoid Height:	-64.1389	

## CONTROL MARK DATA

NAME OF MARK: 17132740 COUNTY: DESCHUTES  
 MARK SET BY: LS 0702 RAYMOND OMAN STATE: OREGON  
 DATE OF MARK: 1989 COUNTRY: U.S.A.  
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 963

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

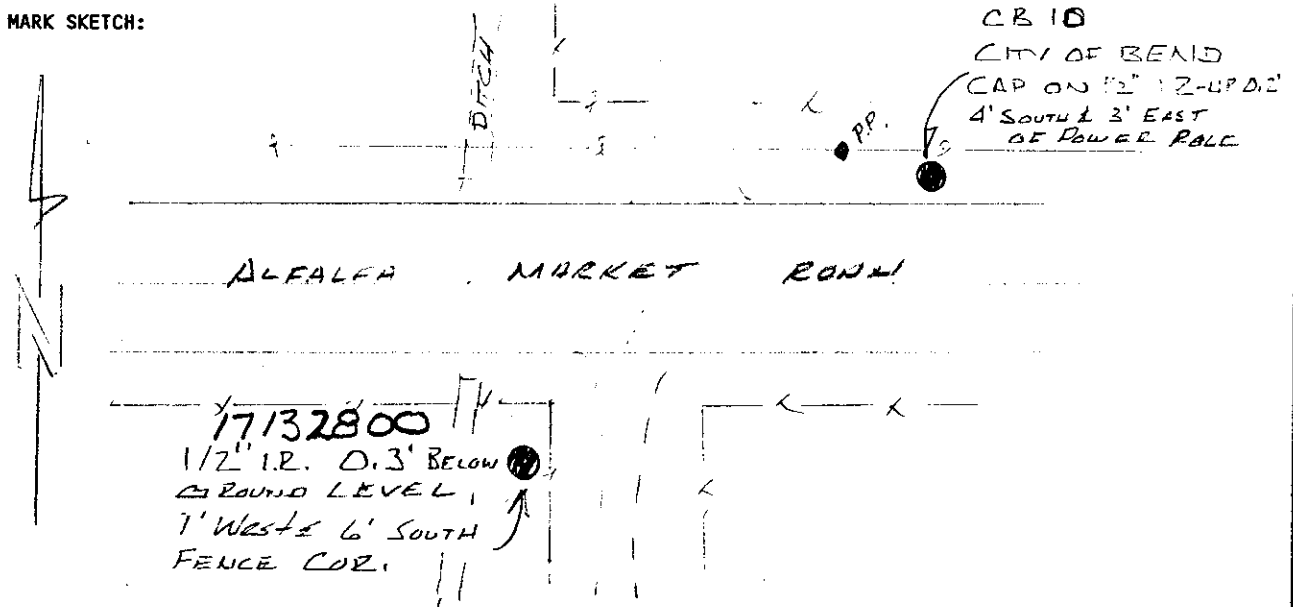
MARK: 17132740 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.321670"	ONE
Longitude:	121°09'47.598348"	SIGMA
		ERROR
Northing:	391158.3195	0.014
Easting:	3331572.944	0.014
Convergence:	+0°05'00.7670"	
Scale Factor:	1.000161138341	
Ellipsoid Height:	3377.1547	0.027
Orthometric Height:	3441.3337	0.036
Geoid Height:	-64.179	

## CONTROL MARK DATA

NAME OF MARK: 17132800 COUNTY: DESCHUTES  
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON  
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.  
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

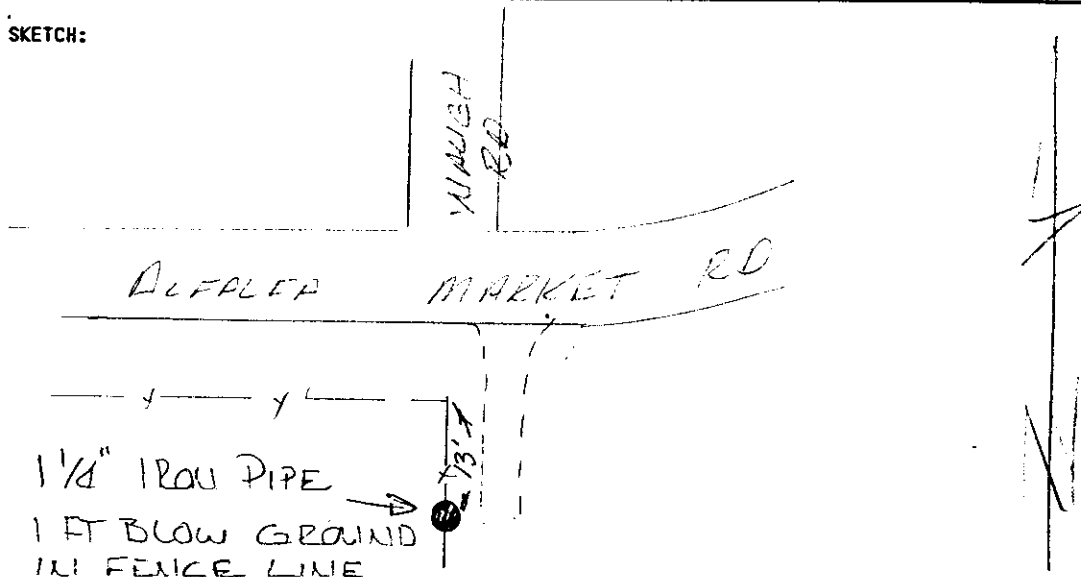
MARK: 17132800 HORIZONTAL ORDER: FIRST

Latitude:	44°03'56.407480"	ONE
Longitude:	121°11'00.046621"	SIGMA
Northing:	388526.6898	ERROR
Easting:	3326286.1282	0.037
Convergence:	+0°04'10.3414"	0.042
Scale Factor:	1.000160789035	
Ellipsoid Height:	3418.3112	0.044
Orthometric Height:	3482.5034	0.044
Geoid Height:	-64.1922	

### CONTROL MARK DATA

NAME OF MARK: 17132804 COUNTY: DESCHUTES  
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON  
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.  
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

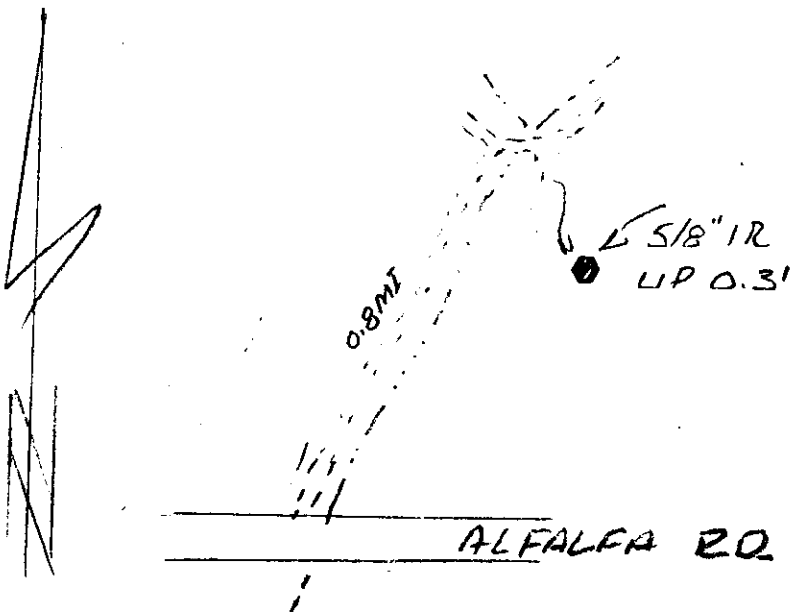
#### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17132804</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°03'56.427913"	ONE SIGMA ERROR
Longitude:	121°10'23.866820"	
Northing:	388532.1271	0.012
Easting:	3328928.209	0.012
Convergence:	+0°04'35.5038"	
Scale Factor:	1.000160955622	
Ellipsoid Height:	3416.0923	0.022
Orthometric Height:	3480.2563	0.033
Geoid Height:	-64.164	

### CONTROL MARK DATA

NAME OF MARK: 17132840 COUNTY: DESCHUTES  
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON  
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.  
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

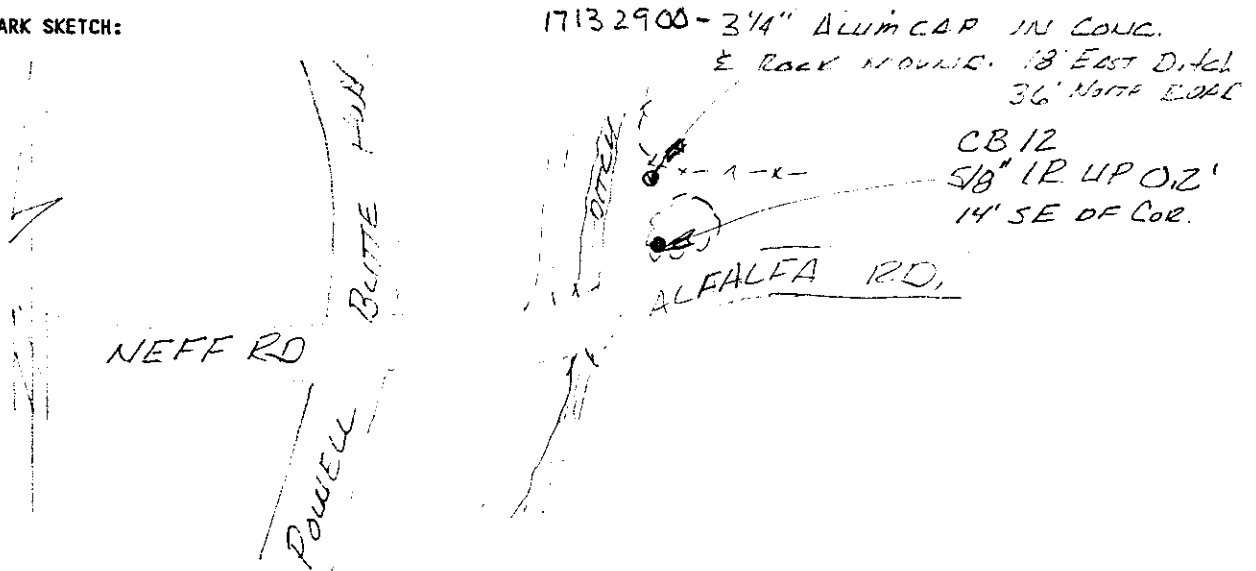
#### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17132840</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°04'22.467069"</u>	ONE SIGMA ERROR
Longitude:	<u>121°11'00.015136"</u>	
Northing:	<u>391165.9807</u>	<u>0.015</u>
Easting:	<u>3326285.2237</u>	<u>0.014</u>
Convergence:	<u>+0°04'10.3959"</u>	
Scale Factor:	<u>1.000160788979</u>	
Ellipsoid Height:	<u>3373.1292</u>	<u>0.027</u>
Orthometric Height:	<u>3437.3649</u>	<u>0.036</u>
Geoid Height:	<u>-64.2358</u>	

## CONTROL MARK DATA

NAME OF MARK: 17132900 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/14/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 927

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

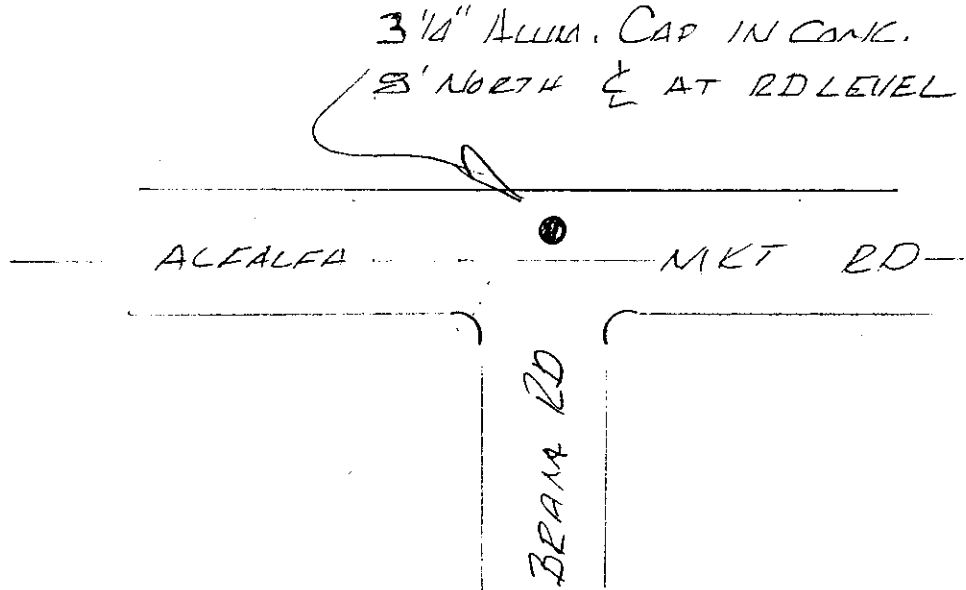
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17132900</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'56.358875"	ONE
Longitude:	121°12'12.513892"	SIGMA
Northing:	388515.9908	ERROR
Easting:	3320994.1031	0.039
Convergence:	+0°03'19.9415"	0.024
Scale Factor:	1.000160503312	
Ellipsoid Height:	3474.4801	0.036
Orthometric Height:	3538.7194	0.036
Geoid Height:	-64.2393	

## CONTROL MARK DATA

NAME OF MARK: 17132904 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 921

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

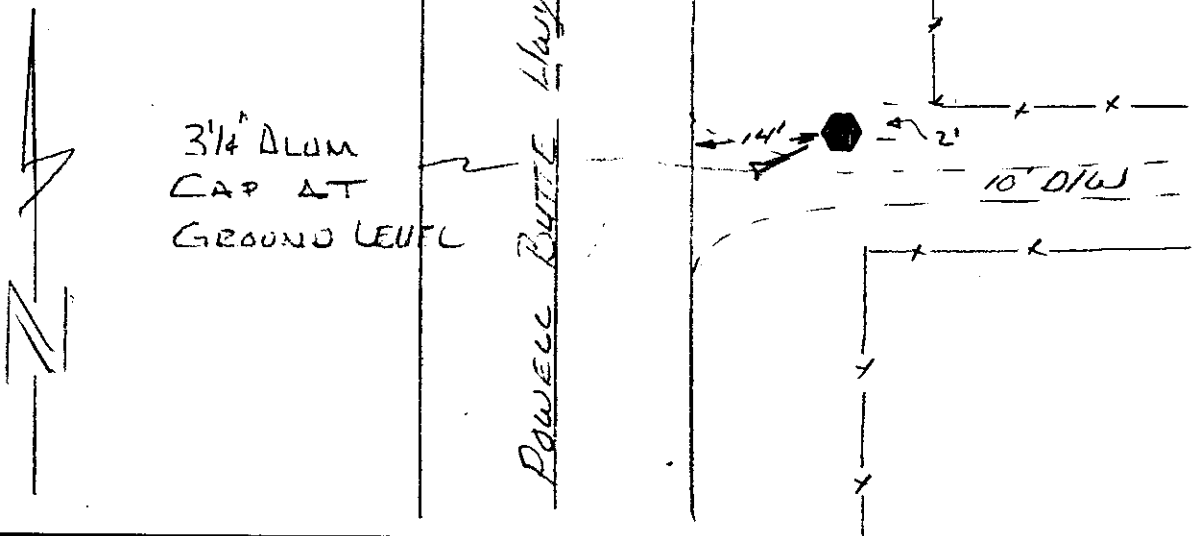
<u>MARK: 17132904</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.385277"	ONE SIGMA ERROR
Longitude:	121°11'36.282510"	
Northing:	388521.3912	0.017
Easting:	3323639.9511	0.018
Convergence:	+0°03'45.1399"	
Scale Factor:	1.000160638170	
Ellipsoid Height:	3434.5716	0.028
Orthometric Height:	3498.7891	0.038
Geoid Height:	-64.2175	



## CONTROL MARK DATA

NAME OF MARK: 17132940 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 07/19/91 COUNTRY: U.S.A.  
 LOCATION: SECTION 29 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1067

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

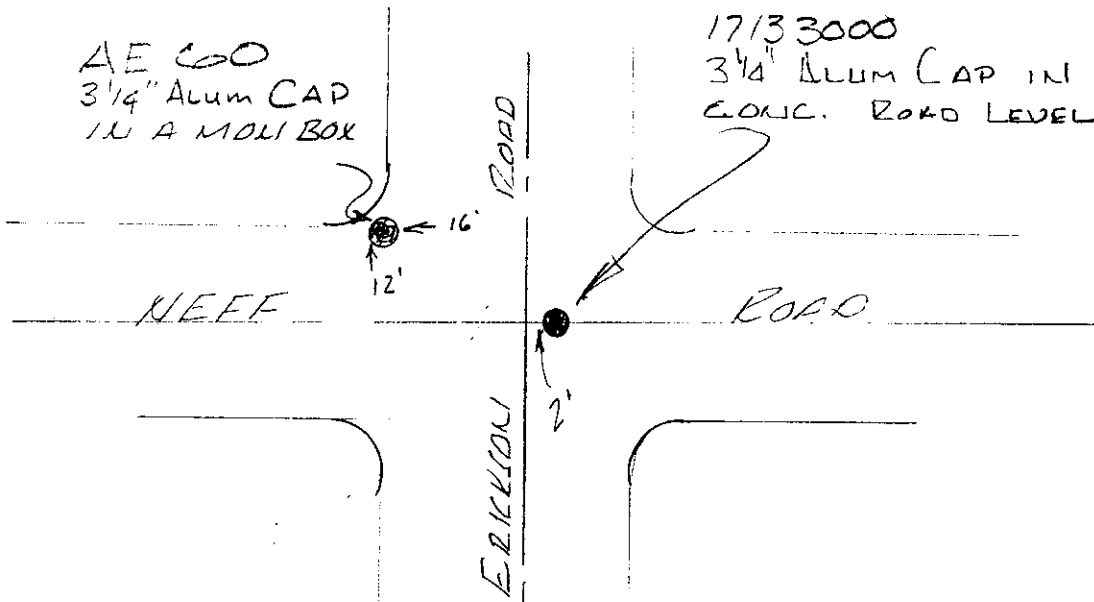
MARK: 17132940 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.405914"	ONE SIGMA ERROR
Longitude:	121°12'12.466197"	
Northing:	391154.0112	0.014
Easting:	3320995.0284	0.012
Convergence:	+0°03'20.0008"	
Scale Factor:	1.000160503356	
Ellipsoid Height:	3418.2485	0.023
Orthometric Height:	3482.5345	0.033
Geoid Height:	-64.286	

## CONTROL MARK DATA

NAME OF MARK: 17133000 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 923

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

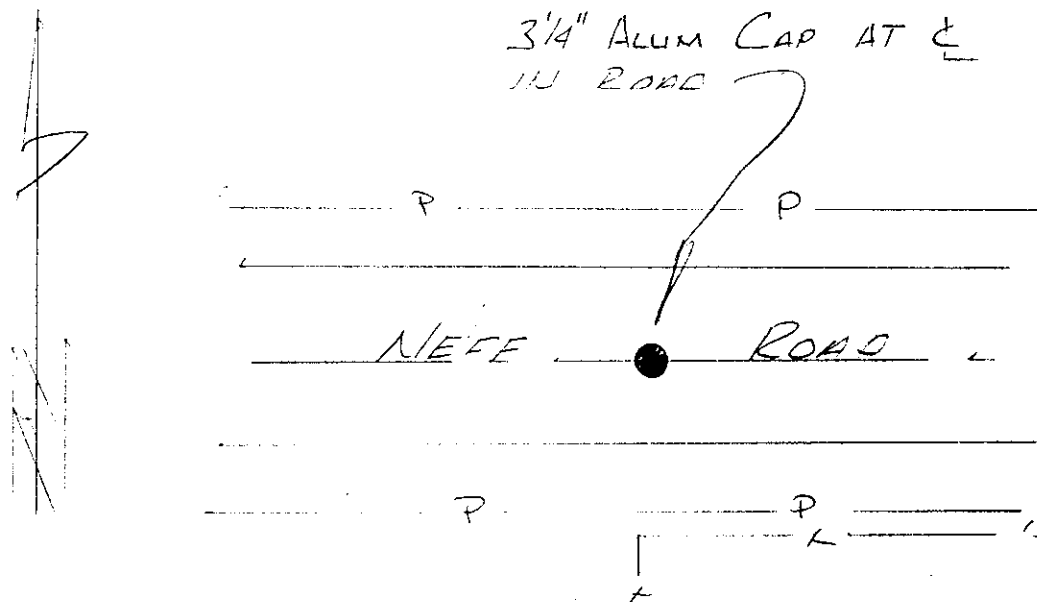
MARK: 17133000 HORIZONTAL ORDER: SECOND

Latitude:	44°03'56.454799"	ONE SIGMA ERROR
Longitude:	121°13'24.300684"	
Northing:	388521.2588	0.023
Easting:	3315751.7581	0.034
Convergence:	+0°02'30.0151"	
Scale Factor:	1.000160283335	
Ellipsoid Height:	3497.7821	0.039
Orthometric Height:	3562.065	0.039
Geoid Height:	-64.2829	

### CONTROL MARK DATA

NAME OF MARK: 17133004 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 922

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

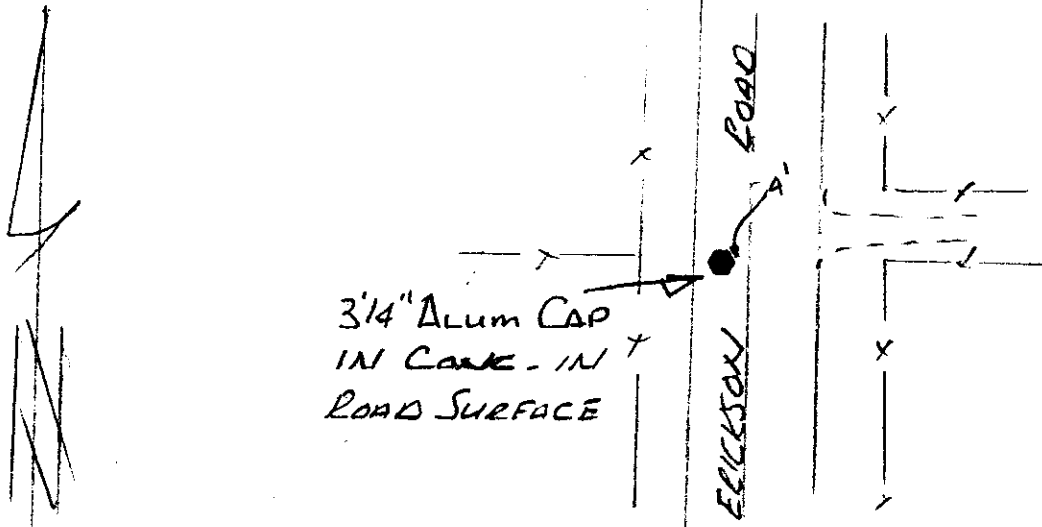
#### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133004</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.408396"	ONE SIGMA ERROR
Longitude:	121°12'48.677995"	
Northing:	388518.6073	0.013
Easting:	3318353.1611	0.011
Convergence:	+0°02'54.7901"	
Scale Factor:	1.000160384649	
Ellipsoid Height:	3465.6856	0.021
Orthometric Height:	3529.9467	0.033
Geoid Height:	-64.2611	

# CONTROL MARK DATA

NAME OF MARK: 17133040 COUNTY: DESCHUTES  
MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
DATE OF MARK: 12/13/88 COUNTRY: U.S.A.  
LOCATION: SECTION 30 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 929

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

## GEOIDIC AND MAPPING COORDINATES

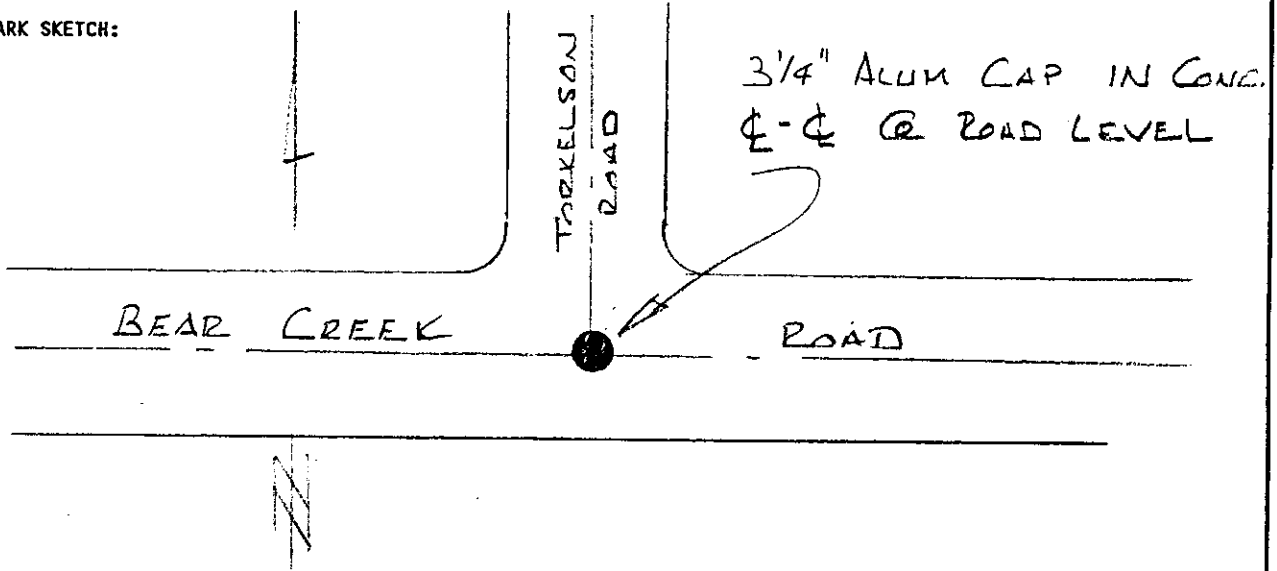
MARK: 17133040 HORIZONTAL ORDER: FIRST

Latitude:	44°04'22.438291"	ONE SIGMA ERROR
Longitude:	121°13'24.350574"	
Northing:	391152.8371	0.011
Easting:	3315746.2012	0.009
Convergence:	+0°02'30.0000"	
Scale Factor:	1.000160283135	
Ellipsoid Height:	3466.5481	0.019
Orthometric Height:	3530.8809	0.031
Geoid Height:	-64.3329	

## CONTROL MARK DATA

NAME OF MARK: 17133100 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 918

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

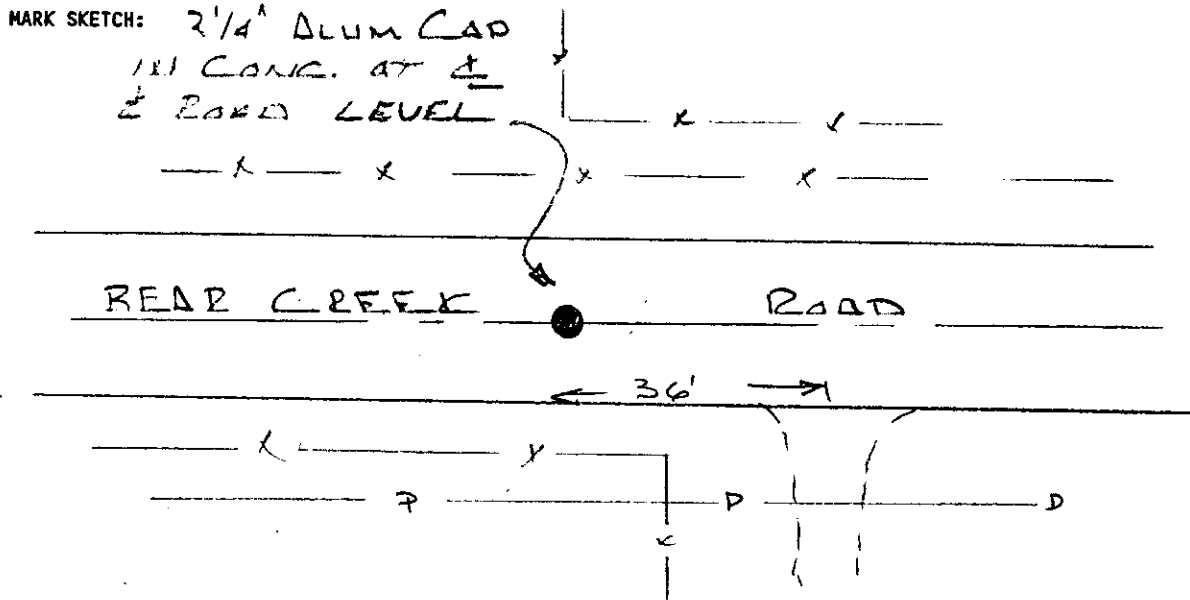
### GEODITIC AND MAPPING COORDINATES

MARK: 17133100 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.198330"	ONE SIGMA ERROR
Longitude:	121°13'24.607762"	
Northing:	383228.7718	0.012
Easting:	3315733.1764	0.009
Convergence:	+0°02'29.7624"	
Scale Factor:	1.000160282668	
Ellipsoid Height:	3560.3938	0.018
Orthometric Height:	3624.5702	0.031
Geoid Height:	-64.1764	

## CONTROL MARK DATA

NAME OF MARK: 17133104 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 932



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

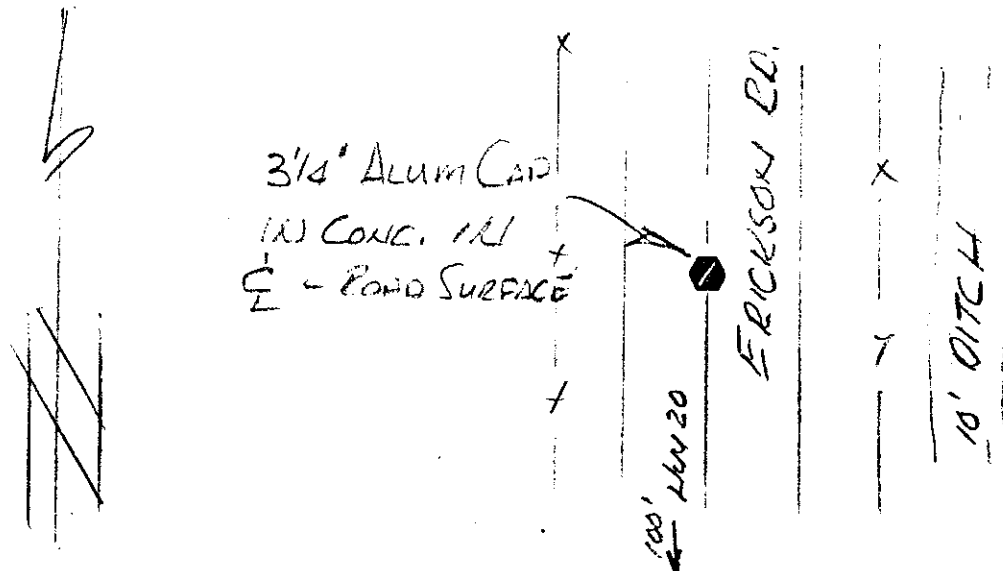
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133104</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	<u>44°03'04.175388"</u>	ONE SIGMA ERROR
Longitude:	<u>121°12'48.566081"</u>	
Northing:	<u>383228.5197</u>	<u>0.016</u>
Easting:	<u>3318365.8181</u>	<u>0.011</u>
Convergence:	<u>+0°02'54.8221"</u>	
Scale Factor:	<u>1.000160385181</u>	
Ellipsoid Height:	<u>3525.4798</u>	<u>0.023</u>
Orthometric Height:	<u>3589.6377</u>	<u>0.034</u>
Geoid Height:	<u>-64.1579</u>	

## CONTROL MARK DATA

NAME OF MARK: 17133140 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 930

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

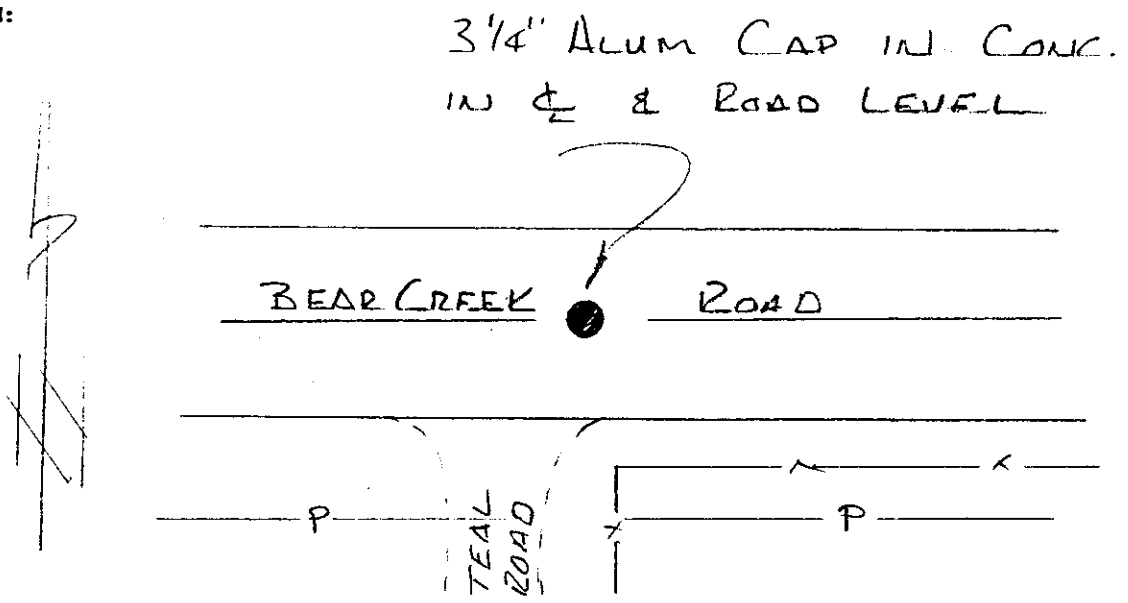
MARK: 17133140 HORIZONTAL ORDER: FIRST

Latitude:	44°03'30.326335"	ONE SIGMA ERROR
Longitude:	121°13'24.449570"	
Northing:	385874.9905	0.011
Easting:	3315742.8086	0.009
Convergence:	+0°02'29.8920"	
Scale Factor:	1.000160283014	
Ellipsoid Height:	3520.6776	0.018
Orthometric Height:	3584.9073	0.030
Geoid Height:	-64.2297	

### CONTROL MARK DATA

NAME OF MARK: 17133200 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 917

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

MARK: 17133200 HORIZONTAL ORDER: FIRST

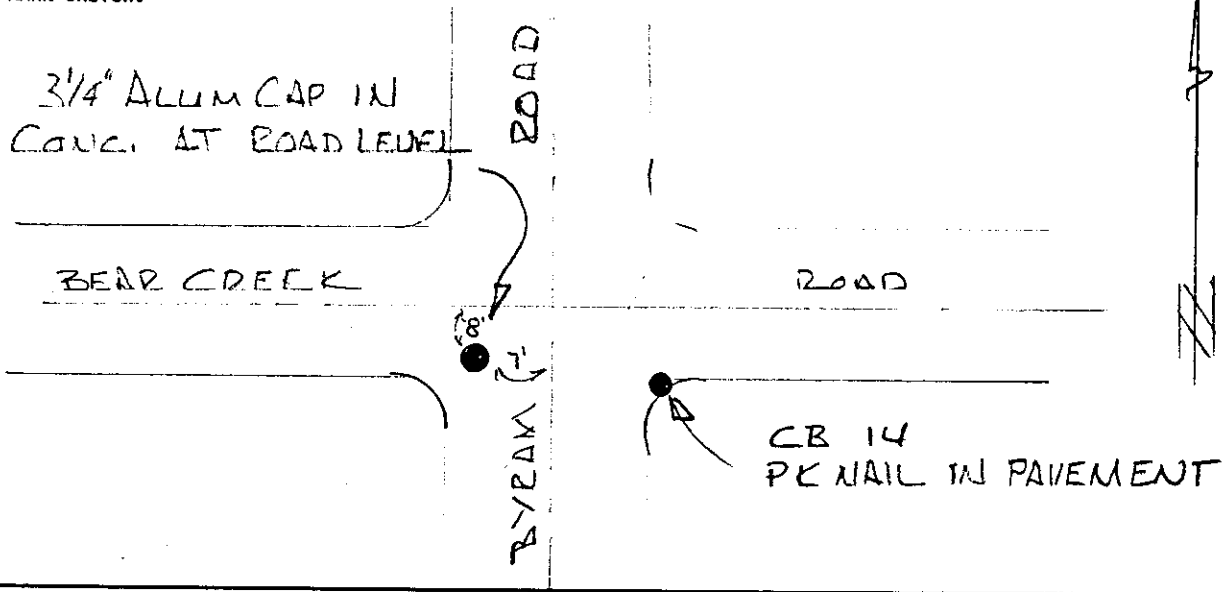
Latitude:	44°03'04.151849"	ONE SIGMA ERROR
Longitude:	121°12'12.387355"	
Northing:	383228.5367	0.015
Easting:	3321008.4707	0.012
Convergence:	+0°03'19.9772"	
Scale Factor:	1.000160504003	
Ellipsoid Height:	3505.2685	0.023
Orthometric Height:	3569.4079	0.034
Geoid Height:	-64.1394	



## CONTROL MARK DATA

NAME OF MARK: 17133204 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 11/21/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 916

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

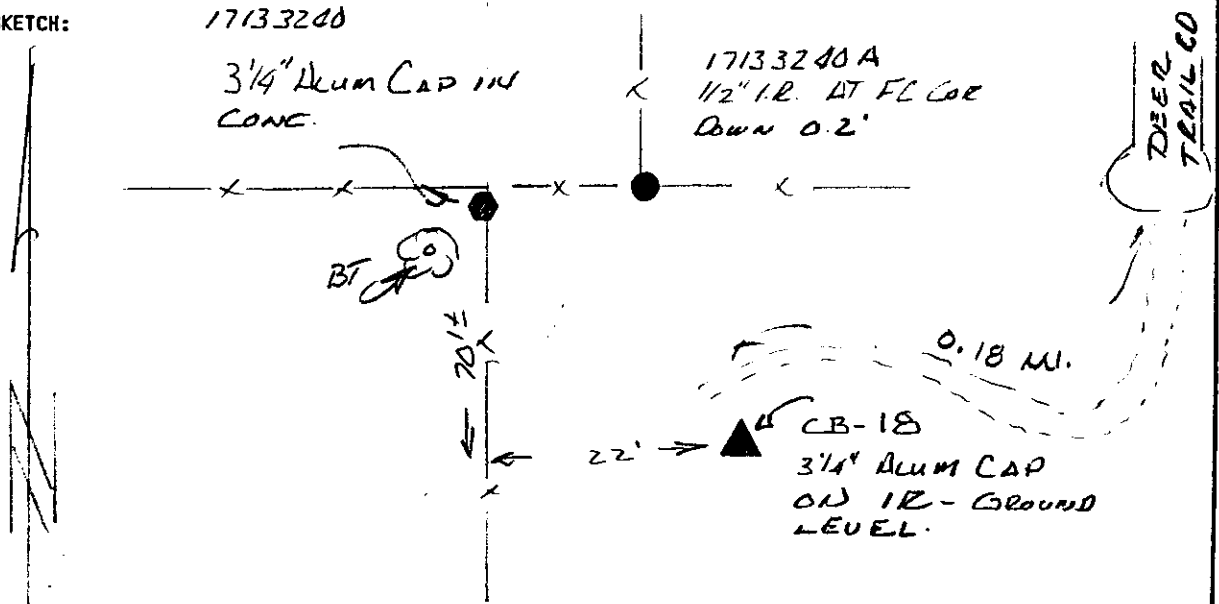
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133204</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'04.251404"	ONE SIGMA ERROR
Longitude:	121°11'36.194942"	
Northing:	383241.3437	0.018
Easting:	3323652.1099	0.045
Convergence:	+0°03'45.1420"	
Scale Factor:	1.000160638828	
Ellipsoid Height:	3484.2266	0.041
Orthometric Height:	3548.3475	0.041
Geoid Height:	-64.1208	

## CONTROL MARK DATA

NAME OF MARK: 17133240 COUNTY: DESCHUTES  
 MARK SET BY: LS 2033 MICHAEL TOMPKINS STATE: OREGON  
 DATE OF MARK: 12/13/88 COUNTRY: U.S.A.  
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 931

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

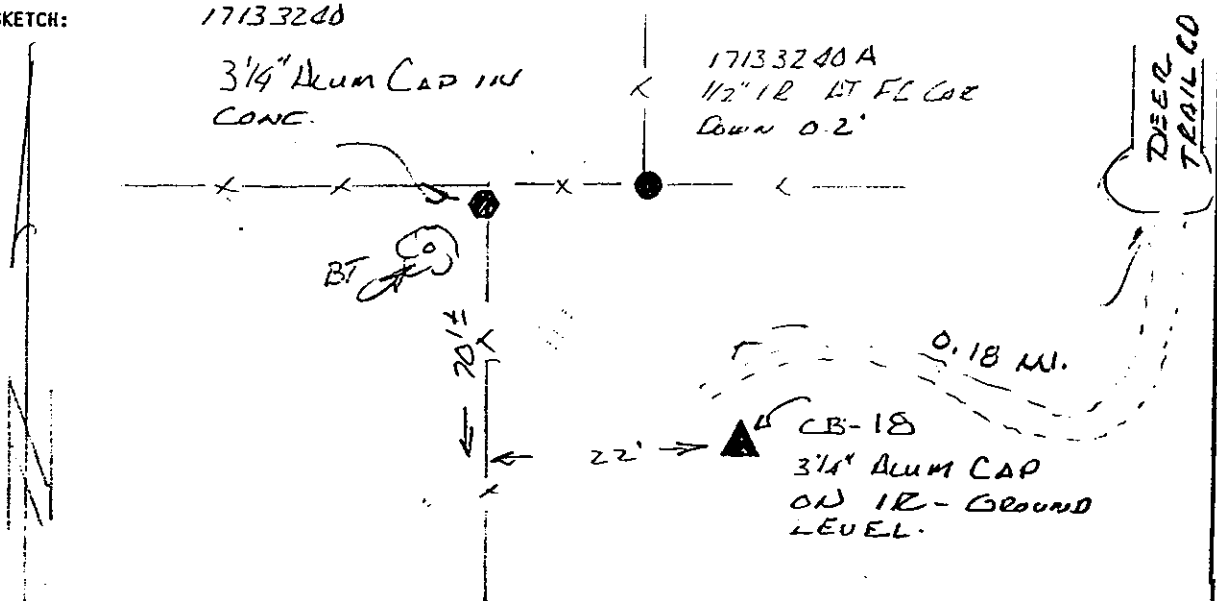
MARK: 17133240 HORIZONTAL ORDER: SECOND

Latitude:	44°03'30.227940"	ONE
Longitude:	121°12'12.447912"	SIGMA
		ERROR
Northing:	385869.485	0.042
Easting:	3321001.4872	0.021
Convergence:	+0°03'19.9613"	
Scale Factor:	1.000160503667	
Ellipsoid Height:	3488.2015	0.042
Orthometric Height:	3552.391	0.042
Geoid Height:	-64.1895	

### CONTROL MARK DATA

NAME OF MARK: 17133240a COUNTY: DESCHUTES  
 MARK SET BY: PE ???? HUDSON STATE: OREGON  
 DATE OF MARK: 06/19/63 COUNTRY: U.S.A.  
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3226

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

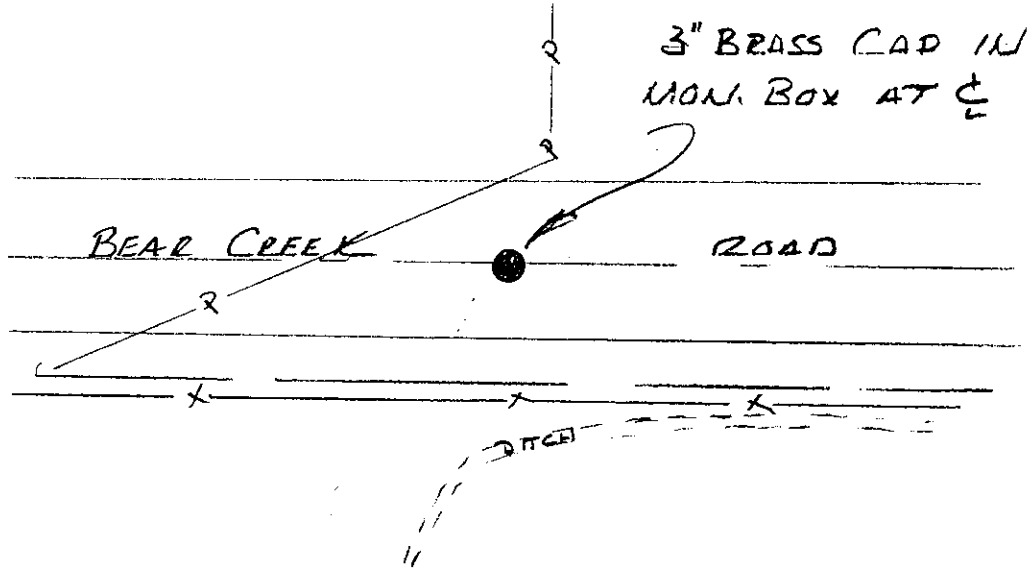
MARK: 17133240a HORIZONTAL ORDER: SECOND

Latitude:	44°03'30.262334"	ONE SIGMA ERROR
Longitude:	121°12'12.305339"	
Northing:	385872.9785	0.043
Easting:	3321011.8967	0.017
Convergence:	+0°03'20.0604"	
Scale Factor:	1.000160504167	
Ellipsoid Height:	3488.0116	0.042
Orthometric Height:	3552.2011	0.042
Geoid Height:	-64.1895	

### CONTROL MARK DATA

NAME OF MARK: 17133300 COUNTY: DESCHUTES  
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
DATE OF MARK: 02/19/92 COUNTRY: U.S.A.  
LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 1116

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

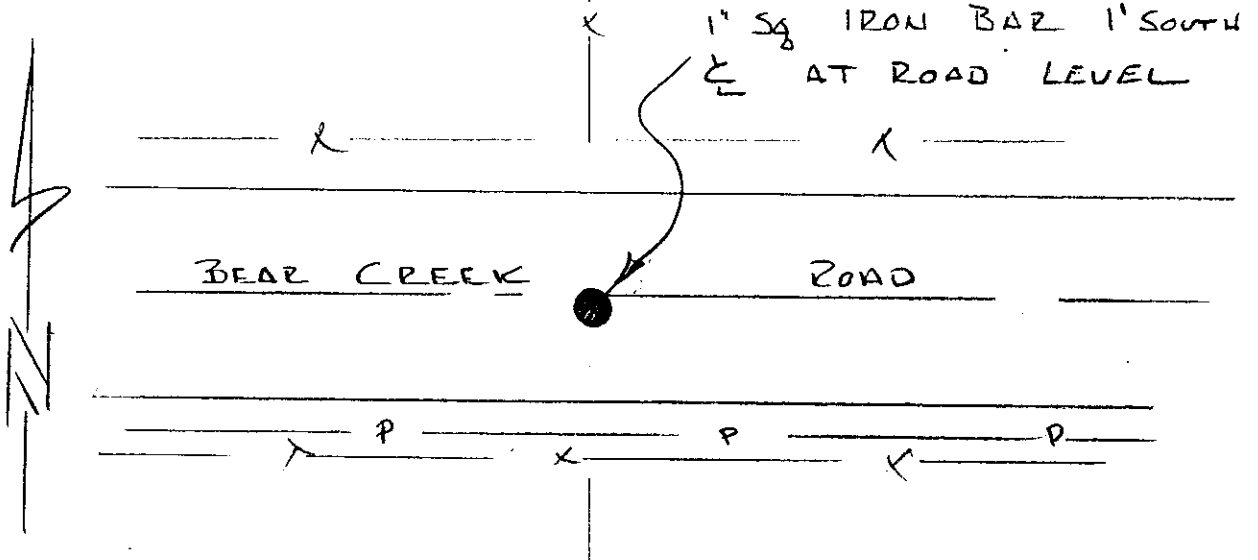
MARK: 17133300 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.349272"	ONE SIGMA ERROR
Longitude:	121°11'00.002865"	
Northing:	383254.3025	0.014
Easting:	3326295.7225	0.013
Convergence:	+0°04'10.3065"	
Scale Factor:	1.000160789614	
Ellipsoid Height:	3509.2531	0.024
Orthometric Height:	3573.3554	0.035
Geoid Height:	-64.1022	

## CONTROL MARK DATA

NAME OF MARK: 17133304 COUNTY: DESCHUTES  
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON  
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.  
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

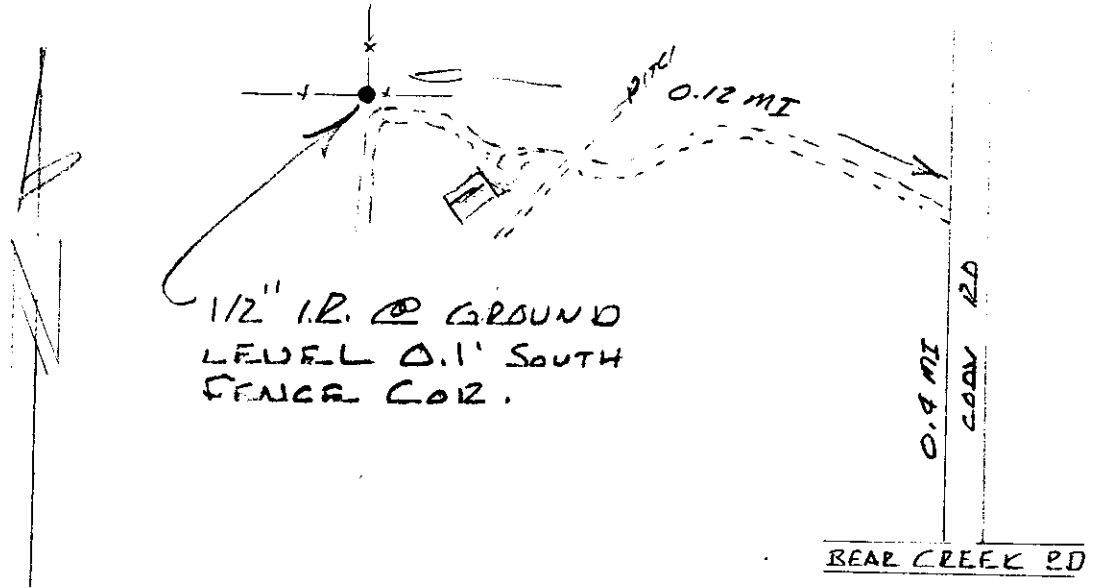
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133304</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.363590"	ONE SIGMA ERROR
Longitude:	121°10'23.925678"	
Northing:	383259.1108	0.014
Easting:	3328930.9519	0.014
Convergence:	+0°04'35.3911"	
Scale Factor:	1.000160955807	
Ellipsoid Height:	3488.74	0.026
Orthometric Height:	3552.8172	0.036
Geoid Height:	-64.0771	

## CONTROL MARK DATA

NAME OF MARK: 17133340 COUNTY: DESCHUTES  
 MARK SET BY: LS 0454 GENE HAWTHORNE STATE: OREGON  
 DATE OF MARK: 02/21/68 COUNTRY: U.S.A.  
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 3303

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

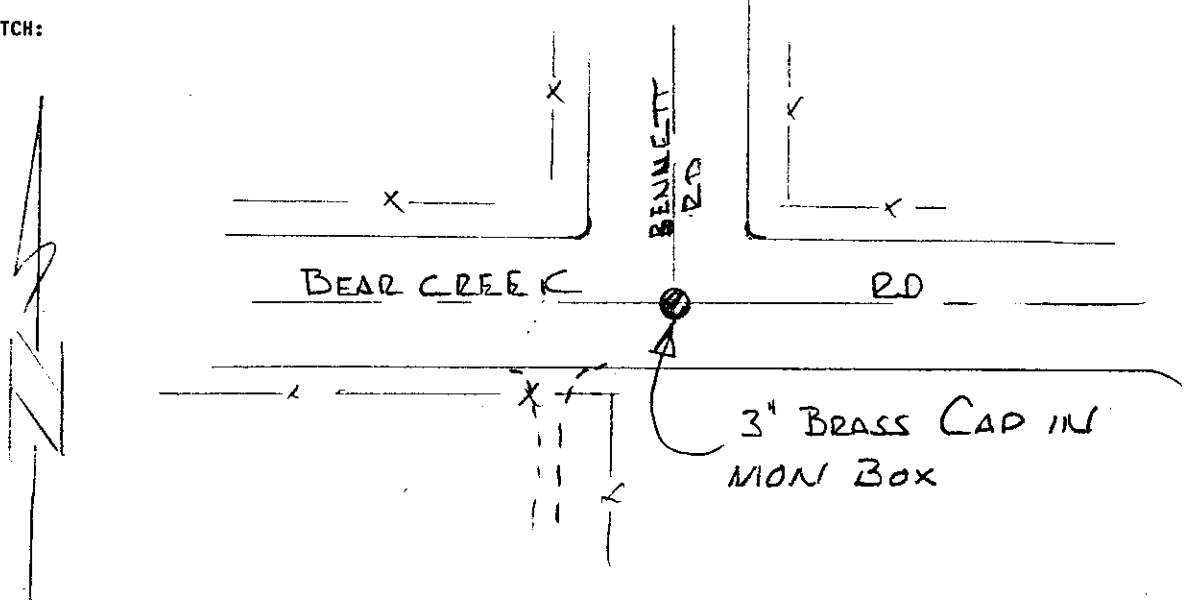
MARK: 17133340 HORIZONTAL ORDER: FIRST

Latitude:	44°03'30.323479"	ONE SIGMA ERROR
Longitude:	121°10'59.994933"	
Northing:	385884.9373	0.014
Easting:	3326293.1093	0.014
Convergence:	+0°04'10.3446"	
Scale Factor:	1.000160789455	
Ellipsoid Height:	3467.034	0.025
Orthometric Height:	3531.1797	0.035
Geoid Height:	-64.1457	

### CONTROL MARK DATA

NAME OF MARK: 17133400 COUNTY: DESCHUTES  
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
DATE OF MARK: 07/25/91 COUNTRY: U.S.A.  
LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: OCRR 1080

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEOIDIC AND MAPPING COORDINATES

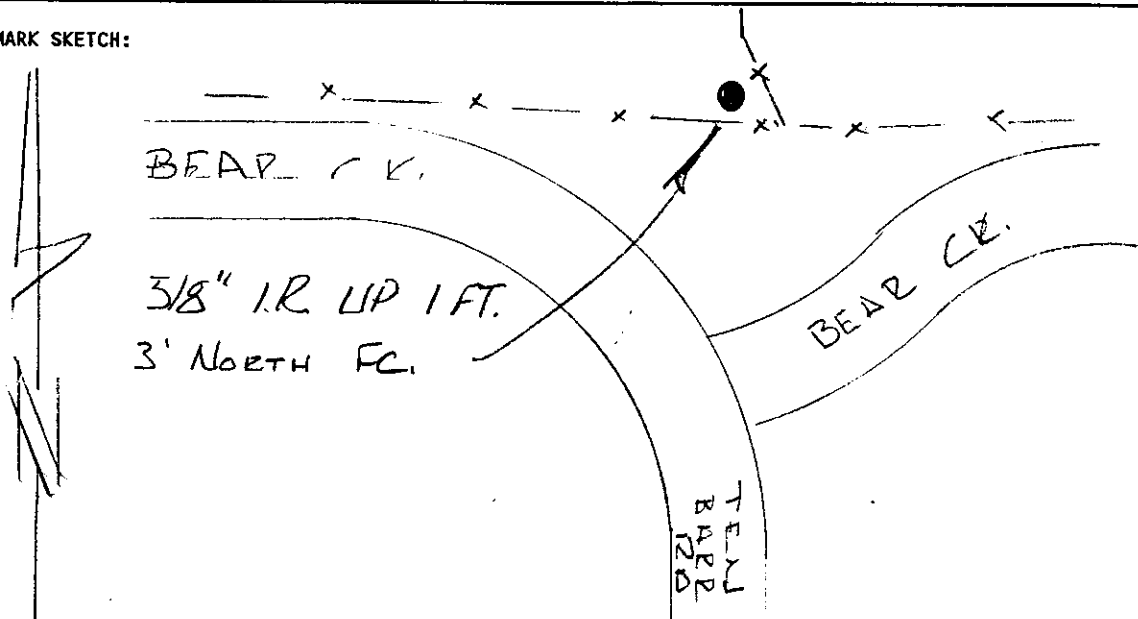
MARK: 17133400 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.382507"	ONE SIGMA ERROR
Longitude:	121°09'47.856087"	
Northing:	383264.7045	0.014
Easting:	3331565.6255	0.015
Convergence:	+0°05'00.4704"	
Scale Factor:	1.000161137820	
Ellipsoid Height:	3500.3743	0.026
Orthometric Height:	3564.4297	0.036
Geoid Height:	-64.0553	

## CONTROL MARK DATA

NAME OF MARK: 17133404 COUNTY: DESCHUTES  
 MARK SET BY: LS 0687 RICHARD HANKINS STATE: OREGON  
 DATE OF MARK: 09/26/69 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 4212

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

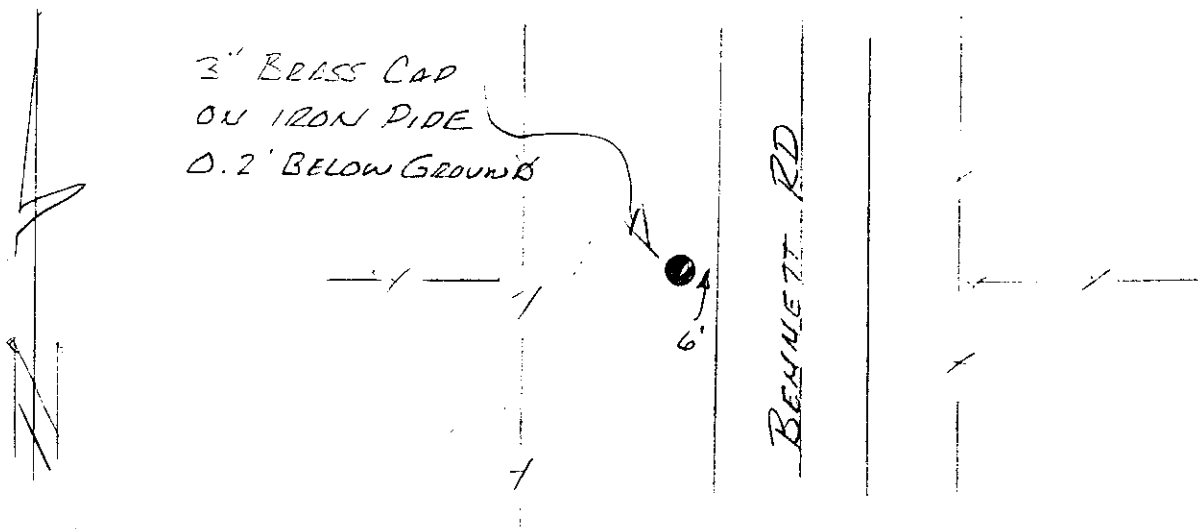
<u>MARK: 17133404</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.371243"	ONE SIGMA ERROR
Longitude:	121°09'11.687830"	
Northing:	383267.5733	0.015
Easting:	3334207.5105	0.016
Convergence:	+0°05'25.6182"	
Scale Factor:	1.000161336250	
Ellipsoid Height:	3472.5382	0.027
Orthometric Height:	3536.5717	0.037
Geoid Height:	-64.0335	



## CONTROL MARK DATA

NAME OF MARK: 17133440 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 7/19/91 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1064

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

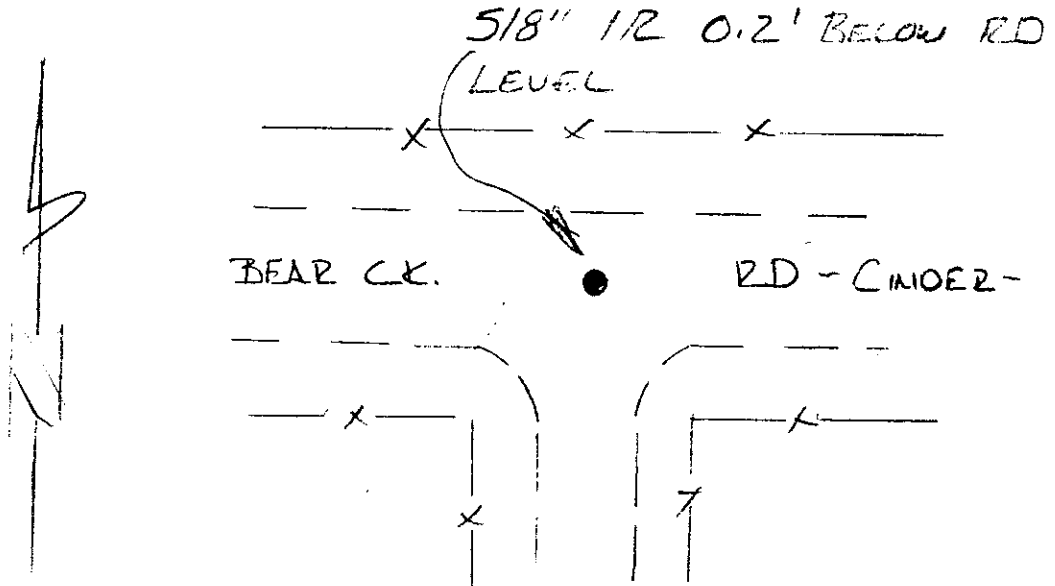
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133440</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°03'30.357753"	ONE SIGMA ERROR
Longitude:	121°09'47.721613"	
Northing:	385895.4581	0.011
Easting:	3331571.6143	0.012
Convergence:	+0°05'00.6030"	
Scale Factor:	1.000161138249	
Ellipsoid Height:	3450.3042	0.021
Orthometric Height:	3514.403	0.033
Geoid Height:	-64.0987	

## CONTROL MARK DATA

NAME OF MARK: 17133500 COUNTY: DESCHUTES  
 MARK SET BY: LS 0687 RICHARD HANKINS STATE: OREGON  
 DATE OF MARK: 09/26/69 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: CS 4212

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

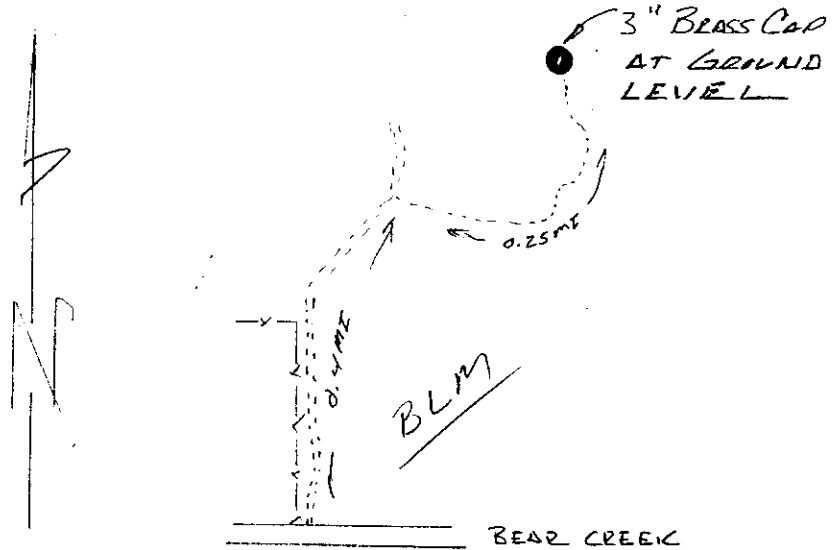
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17133500</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'04.351778"	ONE SIGMA ERROR
Longitude:	121°08'35.548275"	
Northing:	383269.9299	0.018
Easting:	3336847.3007	0.018
Convergence:	+0°05'50.7462"	
Scale Factor:	1.000161550444	
Ellipsoid Height:	3432.8454	0.033
Orthometric Height:	3496.8571	0.041
Geoid Height:	-64.0117	

## CONTROL MARK DATA

NAME OF MARK: 17133540 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 02/19/92 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1115

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

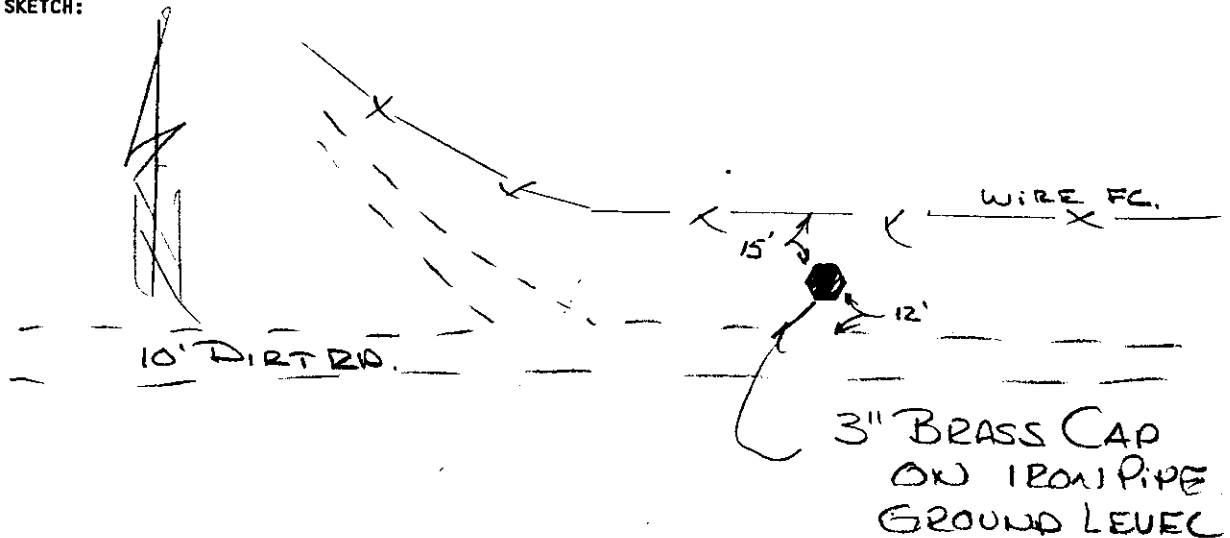
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>17133540</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'30.435367"	ONE SIGMA ERROR
Longitude:	121°08'35.073786"	
Northing:	385911.7011	0.017
Easting:	3336877.4626	0.016
Convergence:	+0°05'51.1220"	
Scale Factor:	1.000161552981	
Ellipsoid Height:	3398.143	0.030
Orthometric Height:	3462.1948	0.039
Geoid Height:	-64.0518	

## CONTROL MARK DATA

NAME OF MARK: 17141800 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 18 TOWNSHIP 17 S. RANGE 14 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1192

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

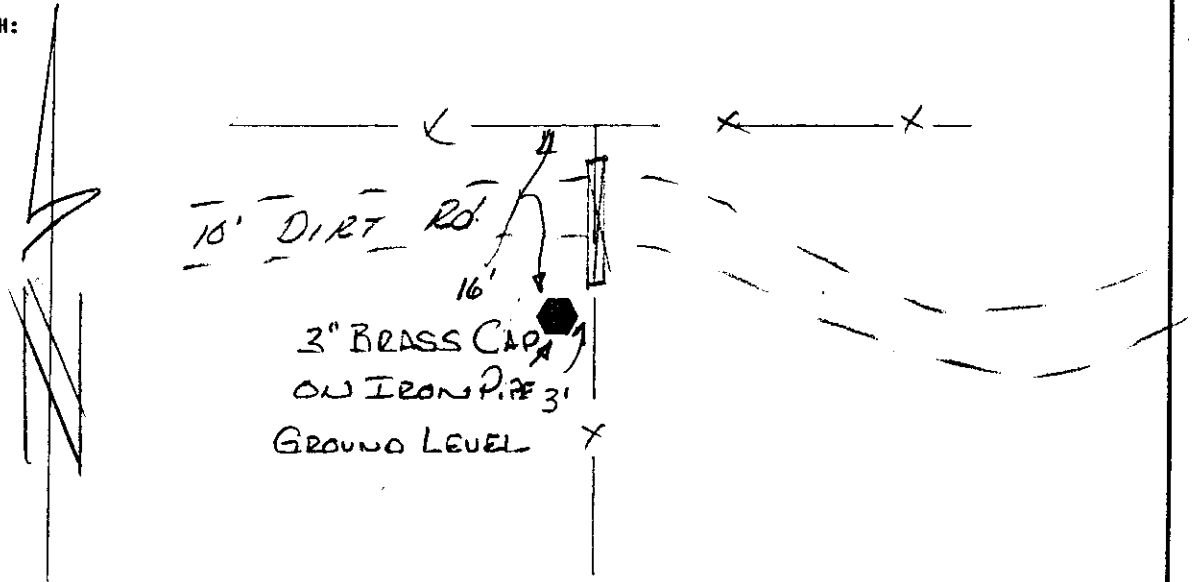
### GEODITIC AND MAPPING COORDINATES

<u>MARK: 17141800</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'40.763126"	ONE SIGMA ERROR
Longitude:	121°06'10.606878"	
Northing:	399131.7103	0.022
Easting:	3347399.7473	0.019
Convergence:	+0°07'31.8783"	
Scale Factor:	1.000162565622	
Ellipsoid Height:	3276.575	0.044
Orthometric Height:	3340.622	0.051
Geoid Height:	-64.047	

## CONTROL MARK DATA

NAME OF MARK: 17143100 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 31 TOWNSHIP 17 S. RANGE 14 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: OCRR 1190

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

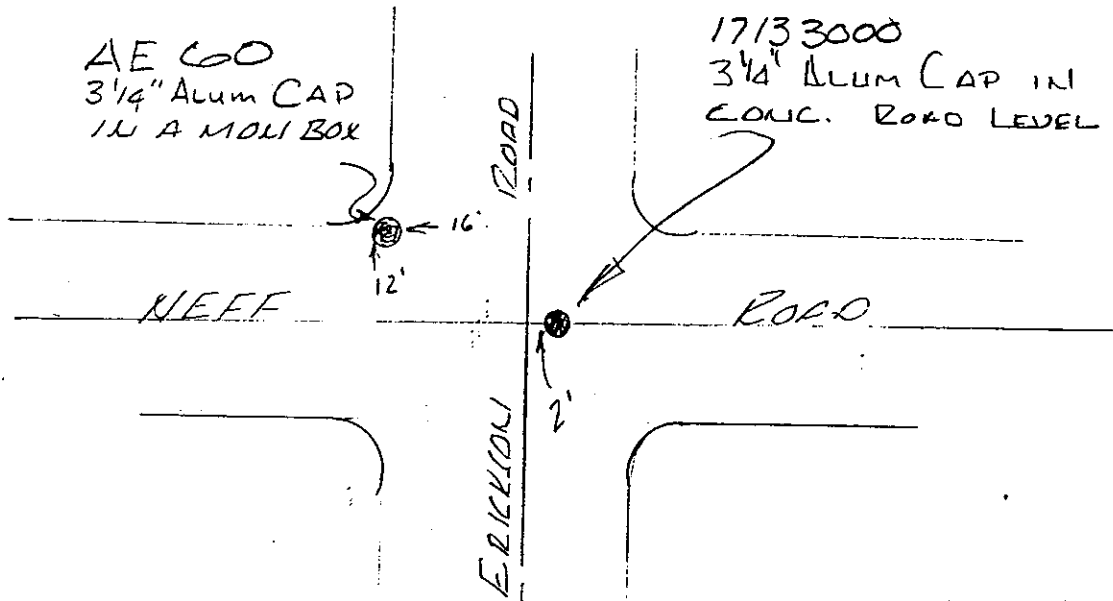
MARK: 17143100 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.235875"	ONE
Longitude:	121°06'11.072639"	SIGMA
Northing:	383278.7065	ERROR
Easting:	3347400.4426	0.026
Convergence:	+0°07'31.2004"	0.027
Scale Factor:	1.000162565723	
Ellipsoid Height:	3379.9701	0.057
Orthometric Height:	3443.9044	0.062
Geoid Height:	-63.9343	

## CONTROL MARK DATA

NAME OF MARK: AE60 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

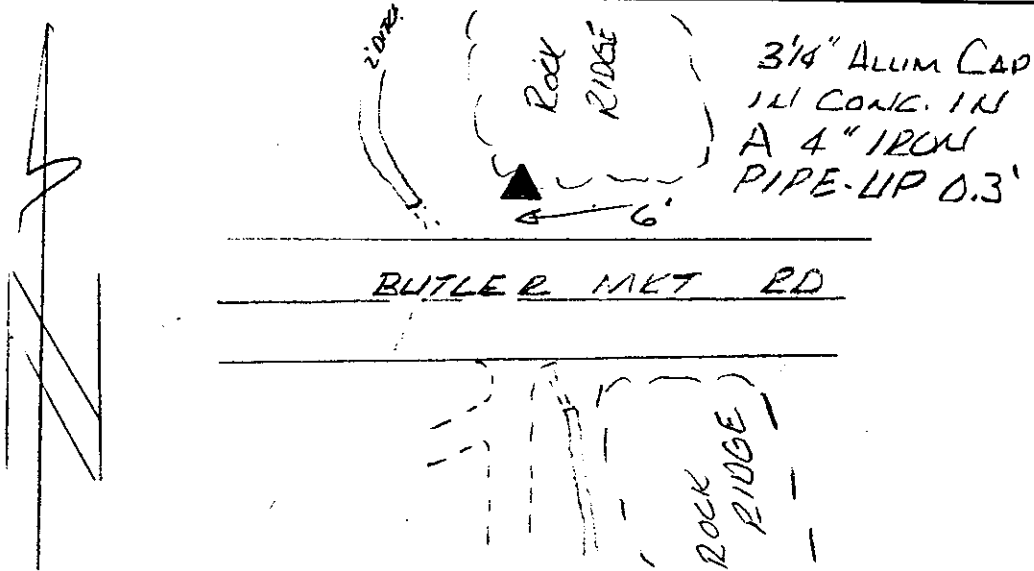
### GEODITIC AND MAPPING COORDINATES

MARK: <u>AE60</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.577271"	ONE SIGMA ERROR
Longitude:	121°13'24.586149"	
Northing:	388533.6474	0.011
Easting:	3315730.9026	0.010
Convergence:	+0°02'29.8167"	
Scale Factor:	1.000160282586	
Ellipsoid Height:	3497.4123	0.020
Orthometric Height:	3561.6952	0.032
Geoid Height:	-64.2829	

## CONTROL MARK DATA

NAME OF MARK: BA50 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

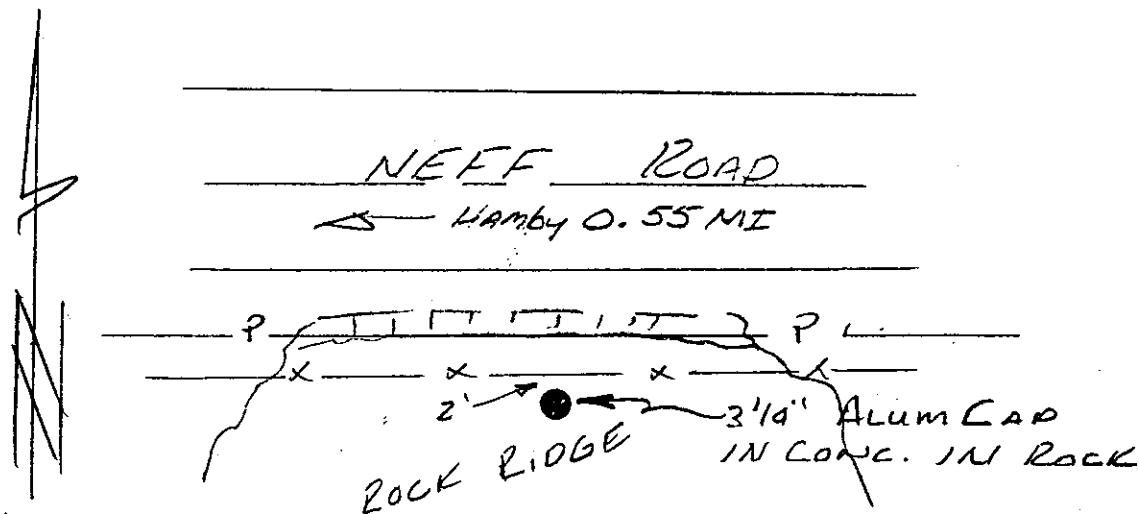
### GEODITIC AND MAPPING COORDINATES

<u>MARK: BA50</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°05'40.982770"	ONE SIGMA ERROR
Longitude:	121°13'54.925410"	
Northing:	399106.252	0.009
Easting:	3313508.7346	0.008
Convergence:	+0°02'08.7835"	
Scale Factor:	1.000160208386	
Ellipsoid Height:	3398.674	0.016
Orthometric Height:	3463.1814	0.030
Geoid Height:	-64.5075	

## CONTROL MARK DATA

NAME OF MARK: AE70 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 1 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

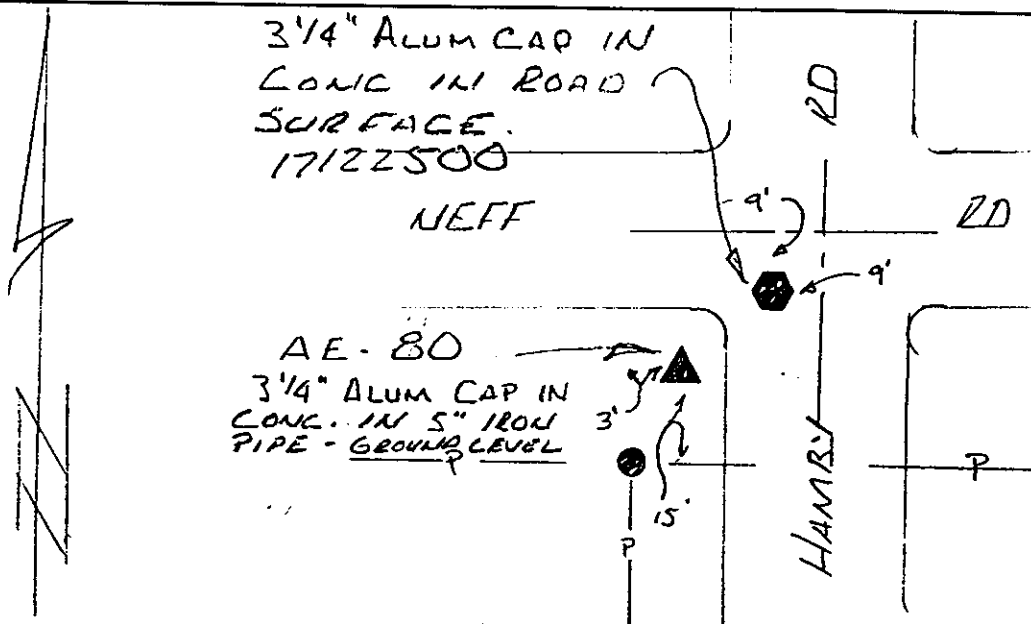
<u>MARK: AE70</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.256241"	ONE SIGMA ERROR
Longitude:	121°13'55.646152"	
Northing:	388499.6052	0.008
Easting:	3313462.7219	0.007
Convergence:	+0°02'08.2148"	
Scale Factor:	1.000160206971	
Ellipsoid Height:	3519.5432	0.014
Orthometric Height:	3583.8411	0.028
Geoid Height:	-64.2979	



## CONTROL MARK DATA

NAME OF MARK: AE80 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

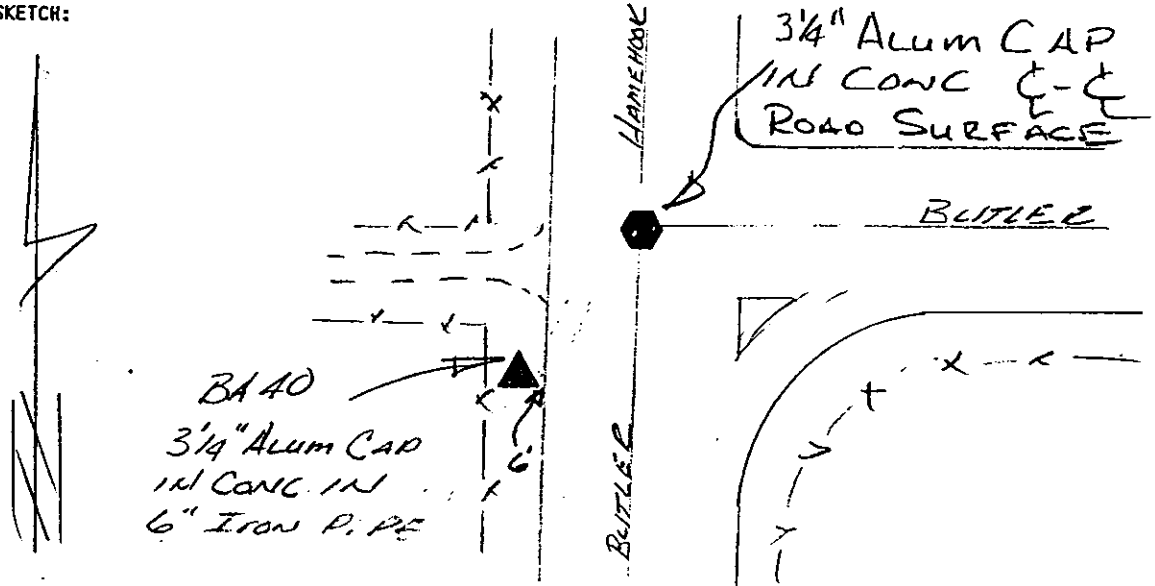
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>AE80</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.643155"	ONE SIGMA ERROR
Longitude:	121°14'37.452937"	
Northing:	388537.1088	0.012
Easting:	3310409.6986	0.010
Convergence:	+0°01'39.1391"	
Scale Factor:	1.000160123743	
Ellipsoid Height:	3520.8345	0.020
Orthometric Height:	3585.1578	0.032
Geoid Height:	-64.3233	

## CONTROL MARK DATA

NAME OF MARK: BA40 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

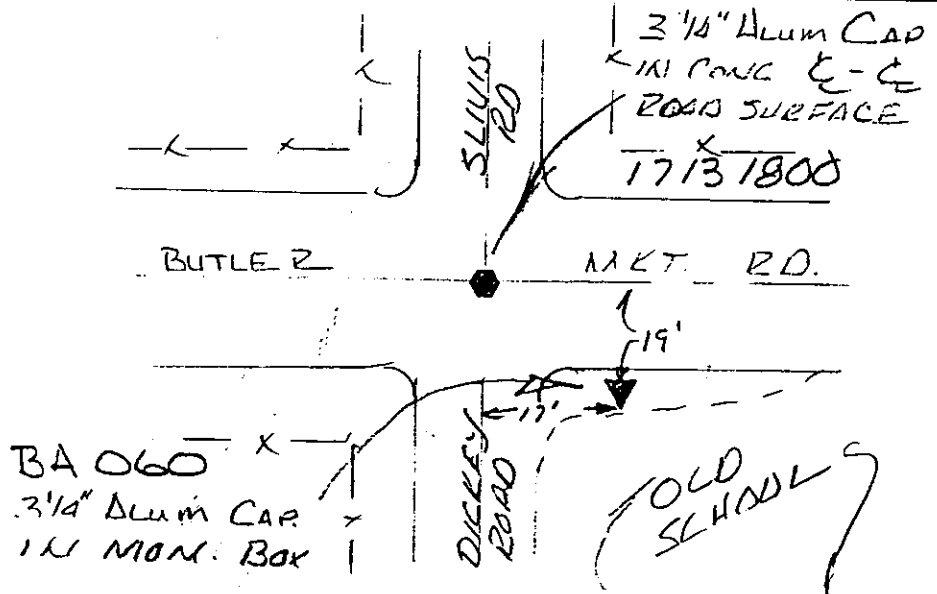
### GEODITIC AND MAPPING COORDINATES

<u>MARK:</u> <u>BA40</u>	<u>HORIZONTAL ORDER:</u> <u>FIRST</u>	
Latitude:	44°05'40.718601"	ONE SIGMA ERROR
Longitude:	121°14'36.850794"	
Northing:	399077.8028	0.013
Easting:	3310448.5819	0.011
Convergence:	+0°01'39.6098"	
Scale Factor:	1.000160124668	
Ellipsoid Height:	3373.624	0.022
Orthometric Height:	3438.16	0.033
Geoid Height:	-64.536	

## CONTROL MARK DATA

NAME OF MARK: BA60 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 19 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

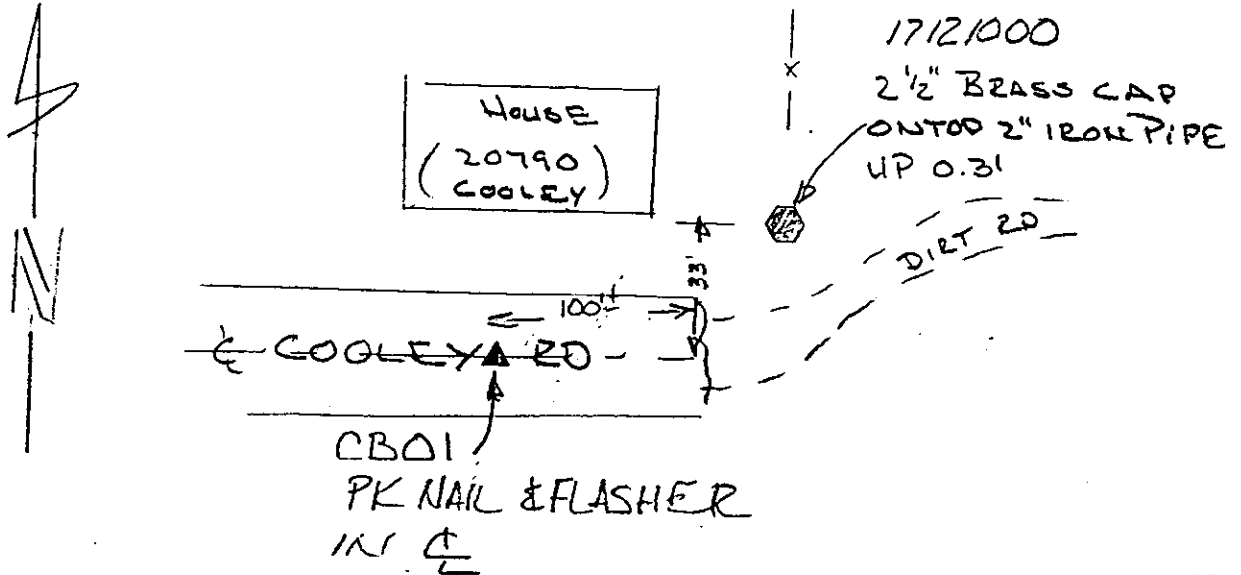
MARK: BA60 HORIZONTAL ORDER: FIRST

Latitude:	44°05'40.518975"	ONE SIGMA ERROR
Longitude:	121°13'24.383734"	
Northing:	399060.7857	0.013
Easting:	3315738.0288	0.011
Convergence:	+0°02'30.0355"	
Scale Factor:	1.000160282840	
Ellipsoid Height:	3395.7534	0.022
Orthometric Height:	3460.2329	0.033
Geoid Height:	-64.4795	

## CONTROL MARK DATA

NAME OF MARK: CB01 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 16 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

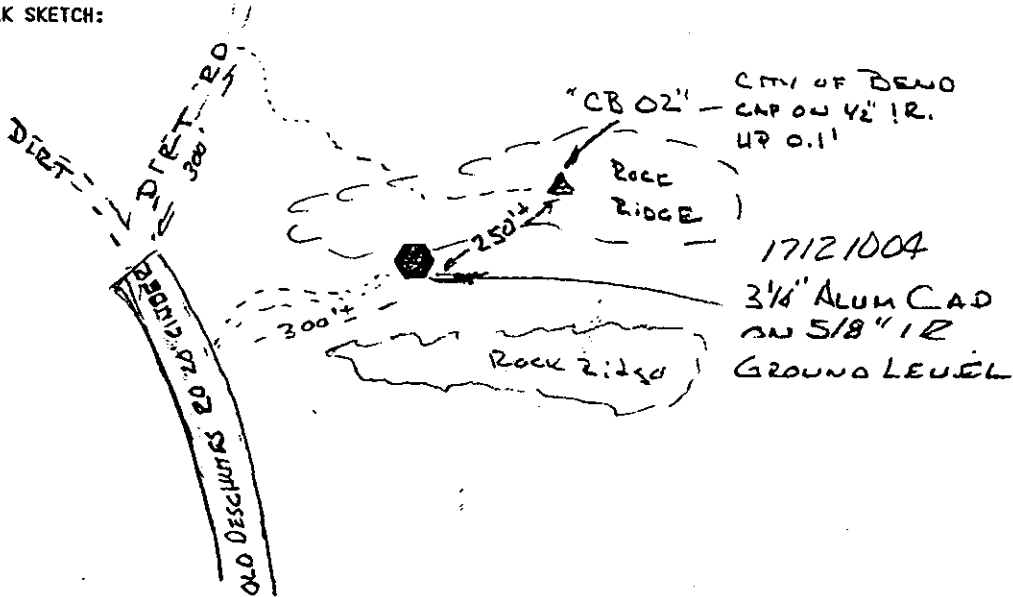
### GEODITIC AND MAPPING COORDINATES

MARK: <u>CB01</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°06'32.652797"	ONE SIGMA ERROR
Longitude:	121°17'02.568844"	
Northing:	404335.152	0.012
Easting:	3299812.5435	0.009
Convergence:	-0°00'01.7880"	
Scale Factor:	1.000160000040	
Ellipsoid Height:	3397.9612	0.021
Orthometric Height:	3462.711	0.034
Geoid Height:	-64.7498	

## CONTROL MARK DATA

NAME OF MARK: CB02 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

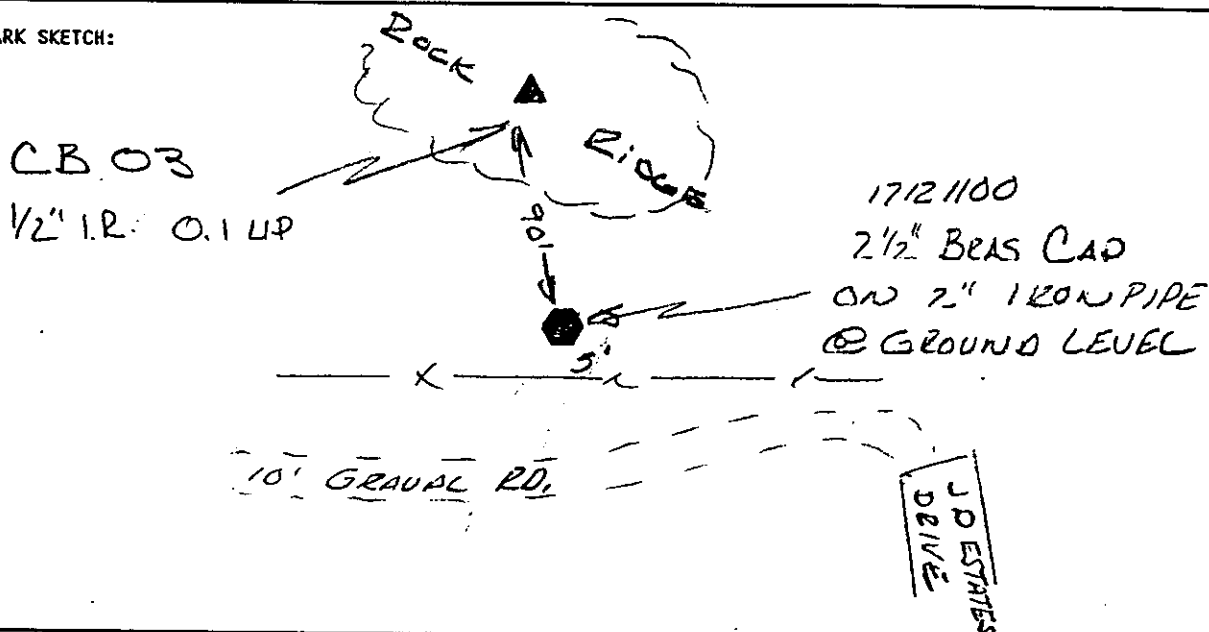
### GEODITIC AND MAPPING COORDINATES

<u>MARK: CB02</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°06'34.938716"	ONE SIGMA ERROR
Longitude:	121°16'22.707156"	
Northing:	404566.8395	0.012
Easting:	3302721.3454	0.011
Convergence:	+0°00'25.9571"	
Scale Factor:	1.000160008457	
Ellipsoid Height:	3400.8831	0.022
Orthometric Height:	3465.6071	0.034
Geoid Height:	-64.724	

### CONTROL MARK DATA

NAME OF MARK: CB03 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 10 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

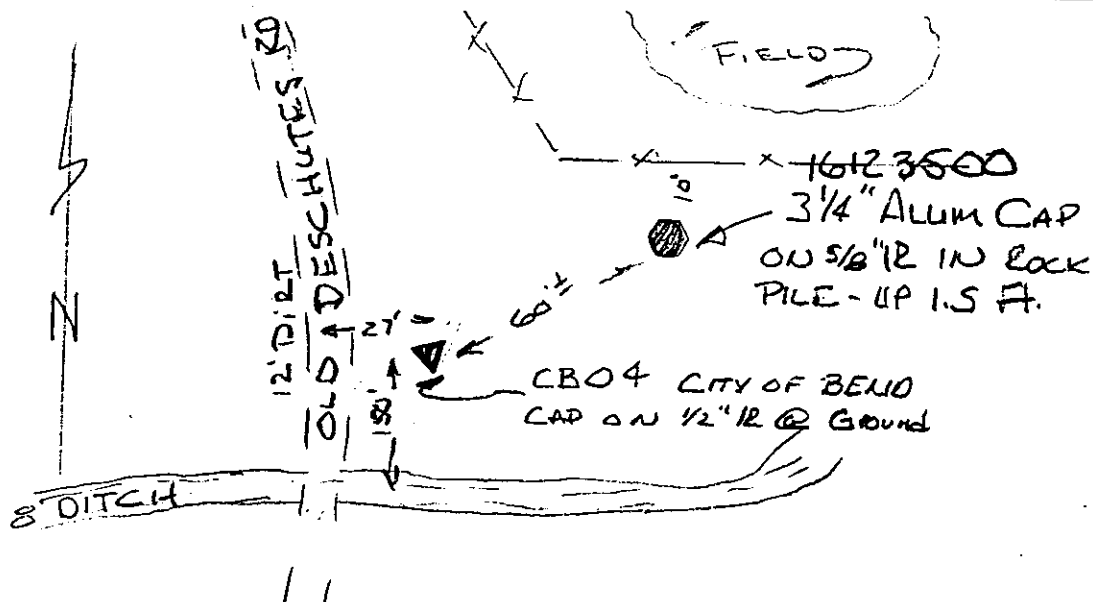
#### GEODITIC AND MAPPING COORDINATES

<u>MARK: CB03</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°06'34.344780"	ONE SIGMA ERROR
Longitude:	121°15'49.998510"	
Northing:	404507.118	0.011
Easting:	3305108.1853	0.010
Convergence:	+0°00'48.7233"	
Scale Factor:	1.000160029797	
Ellipsoid Height:	3377.0975	0.019
Orthometric Height:	3441.8	0.032
Geoid Height:	-64.7025	

## CONTROL MARK DATA

NAME OF MARK: CB04 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 3 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

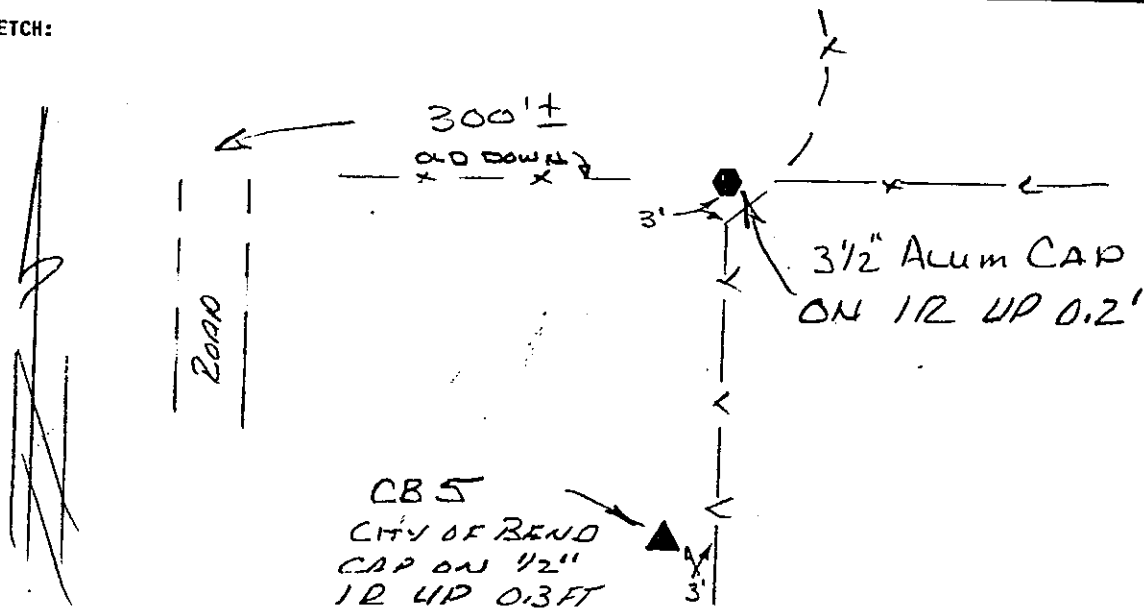
MARK: CB04 HORIZONTAL ORDER: FIRST

Latitude:	44°08'17.360059"	ONE
Longitude:	121°15'50.005241"	SIGMA
Northing:	414940.4978	ERROR
Easting:	3305105.2292	0.012
Convergence:	+0°00'48.7437"	0.011
Scale Factor:	1.000160029762	
Ellipsoid Height:	3247.42	0.021
Orthometric Height:	3312.3456	0.034
Geoid Height:	-64.9256	

## CONTROL MARK DATA

NAME OF MARK: CB05 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 15 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: CB05 HORIZONTAL ORDER: FIRST

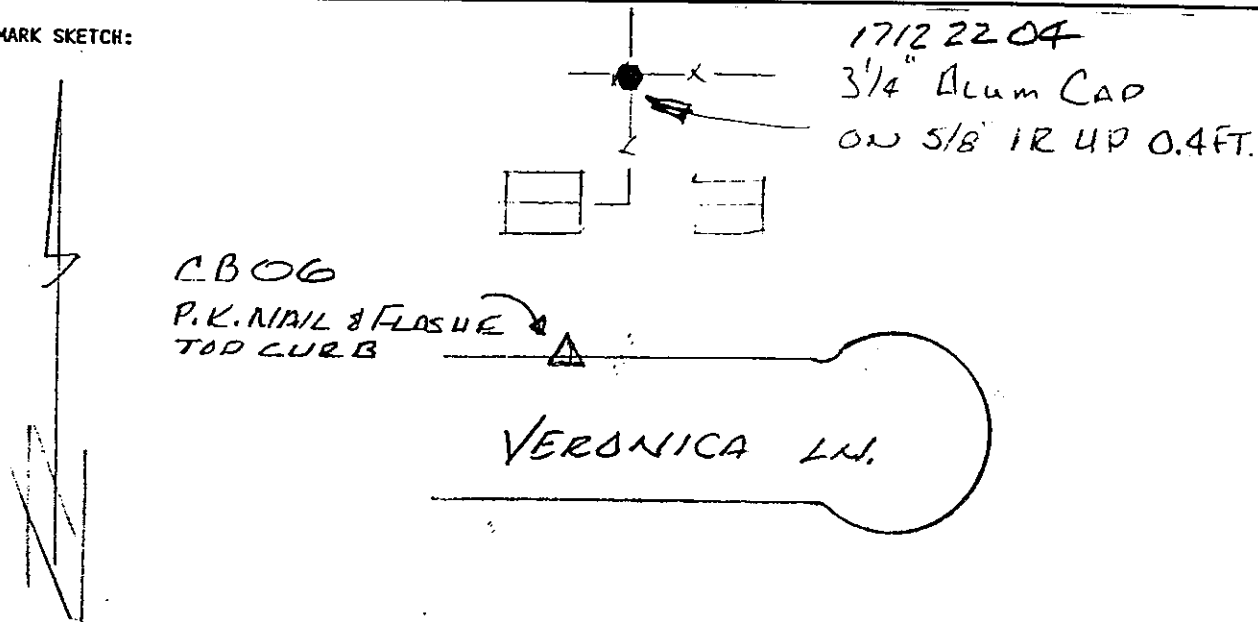
Latitude:	44°06'06.734990"	ONE
Longitude:	121°15'49.581455"	SIGMA
		ERROR
Northing:	401710.8165	0.011
Easting:	3305139.2833	0.011
Convergence:	+0°00'49.0068"	
Scale Factor:	1.000160030161	
Ellipsoid Height:	3391.7025	0.020
Orthometric Height:	3456.3455	0.033
Geoid Height:	-64.643	



### CONTROL MARK DATA

NAME OF MARK: CB06 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

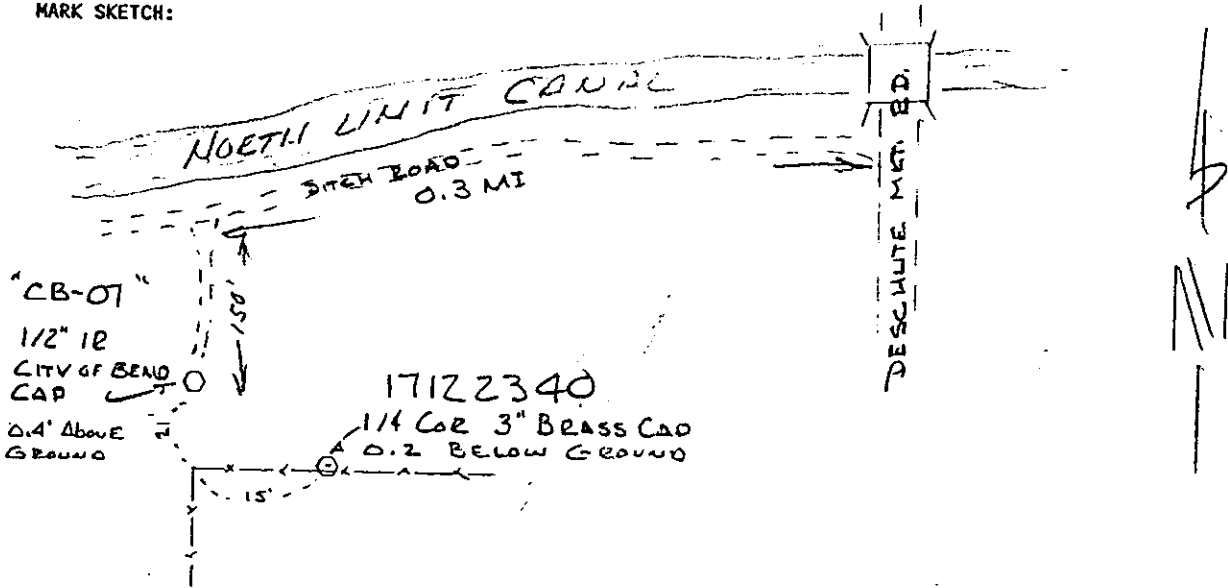
#### GEODITIC AND MAPPING COORDINATES

<u>MARK: CB06</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'47.496608"	ONE SIGMA ERROR
Longitude:	121°16'25.461206"	
Northing:	393685.1418	0.012
Easting:	3302521.6439	0.011
Convergence:	+0°00'24.0273"	
Scale Factor:	1.000160007261	
Ellipsoid Height:	3450.2657	0.023
Orthometric Height:	3514.7546	0.034
Geoid Height:	-64.4889	

## CONTROL MARK DATA

NAME OF MARK: CB07 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 22 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

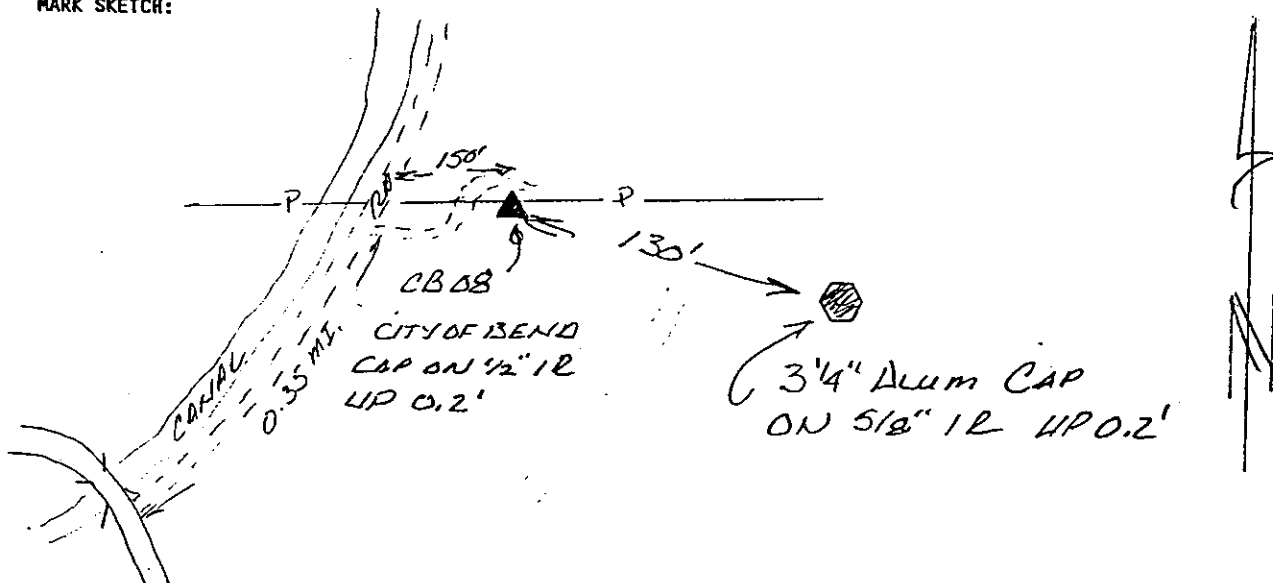
### GEODITIC AND MAPPING COORDINATES

MARK: <u>CB07</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'15.147780"	ONE SIGMA ERROR
Longitude:	121°15'49.842993"	
Northing:	396486.0899	0.011
Easting:	3305121.4323	0.011
Convergence:	+0°00'48.8122"	
Scale Factor:	1.000160029952	
Ellipsoid Height:	3414.5953	0.020
Orthometric Height:	3479.1252	0.032
Geoid Height:	-64.5299	

## CONTROL MARK DATA

NAME OF MARK: CB08 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

<u>MARK: CB08</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°06'33.785490"	ONE SIGMA ERROR
Longitude:	121°14'38.406366"	
Northing:	404452.3383	0.012
Easting:	3310332.4718	0.013
Convergence:	+0°01'38.5535"	
Scale Factor:	1.000160121912	
Ellipsoid Height:	3354.6185	0.020
Orthometric Height:	3419.2677	0.032
Geoid Height:	-64.6492	

**CONTROL MARK DATA**

NAME OF MARK: CB09 COUNTY: DESCHUTES  
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
DATE OF MARK: 1992 COUNTRY: U.S.A.  
LOCATION: SECTION 13 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: DGMC 7

MARK SKETCH:

*DESTROYED*

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

**GEODITIC AND MAPPING COORDINATES**

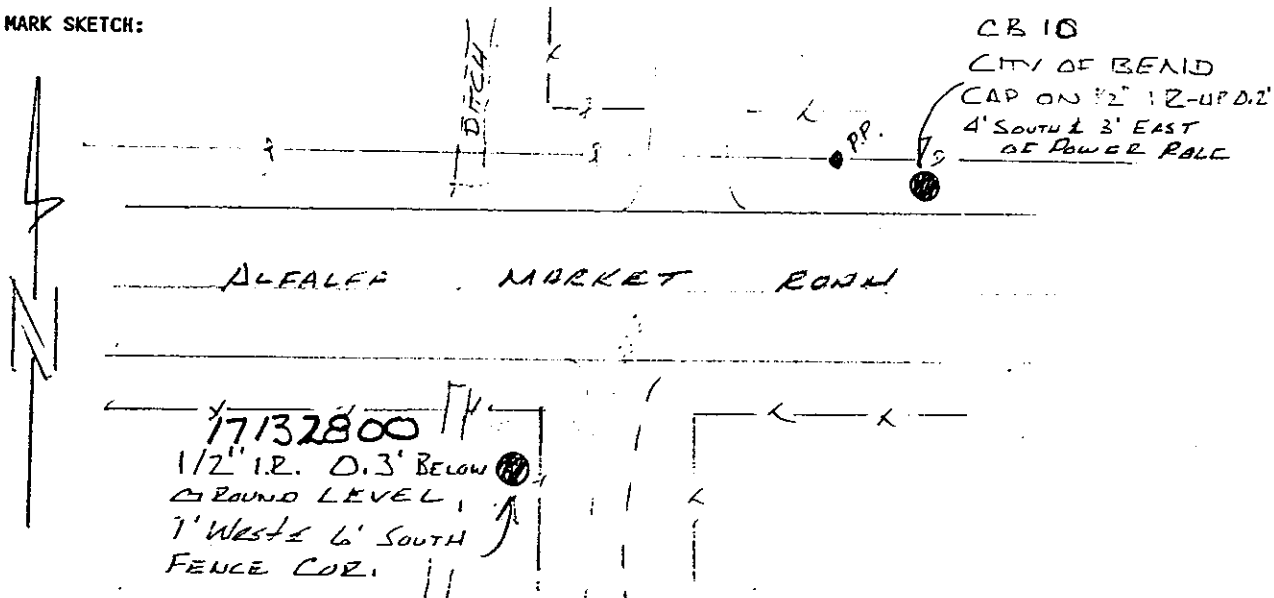
MARK: CB09 HORIZONTAL ORDER: FIRST

Latitude:	44°06'08.482019"	ONE SIGMA ERROR
Longitude:	121°13'25.019553"	
Northing:	401892.8345	0.015
Easting:	3315689.5658	0.013
Convergence:	+0°02'29.6140"	
Scale Factor:	1.000160281100	
Ellipsoid Height:	3366.4696	0.025
Orthometric Height:	3431.0052	0.035
Geoid Height:	-64.5357	

### CONTROL MARK DATA

NAME OF MARK: CB10 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

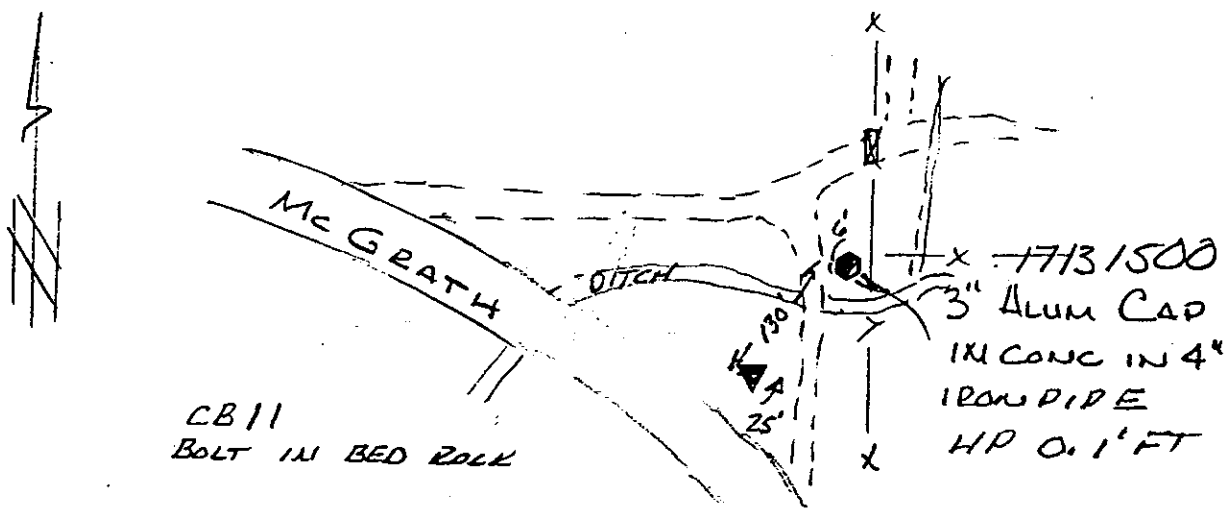
#### GEODITIC AND MAPPING COORDINATES

<u>MARK: CB10</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°03'57.017698"	ONE SIGMA ERROR
Longitude:	121°10'59.067202"	
Northing:	388588.579	0.011
Easting:	3326357.5765	0.010
Convergence:	+0°04'11.0233"	
Scale Factor:	1.000160793330	
Ellipsoid Height:	3420.9963	0.020
Orthometric Height:	3485.1885	0.032
Geoid Height:	-64.1922	

### CONTROL MARK DATA

NAME OF MARK: CB11 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000°  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000°  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

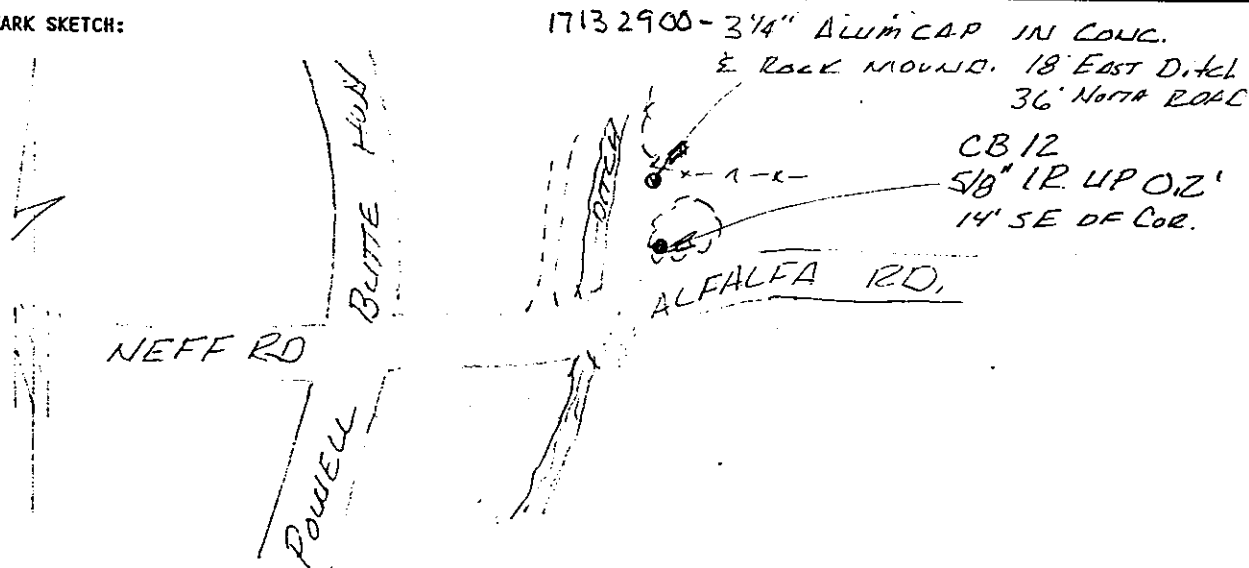
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB11</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°05'39.299515"	ONE SIGMA ERROR
Longitude:	121°09'47.698614"	
Northing:	398954.5648	0.014
Easting:	3331554.2551	0.012
Convergence:	+0°05'00.8131"	
Scale Factor:	1.000161136989	
Ellipsoid Height:	3290.5635	0.025
Orthometric Height:	3354.8501	0.035
Geoid Height:	-64.2865	

## CONTROL MARK DATA

NAME OF MARK: CB12 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

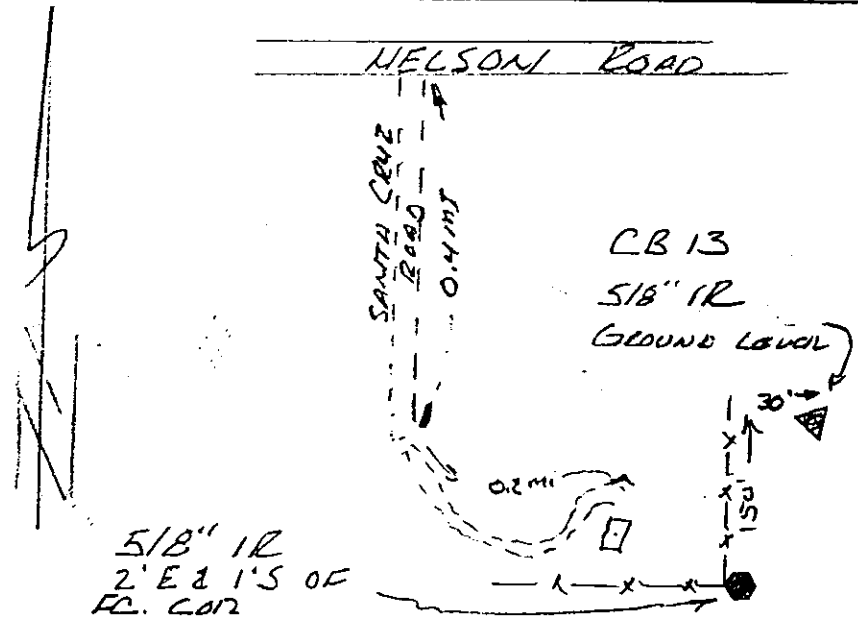
MARK: CB12 HORIZONTAL ORDER: FIRST

Latitude:	44°03'56.177990"	ONE
Longitude:	121°12'12.380199"	SIGMA
		ERROR
Northing:	388497.6804	0.009
Easting:	3321003.884	0.008
Convergence:	+0°03'20.0343"	
Scale Factor:	1.000160503781	
Ellipsoid Height:	3477.3591	0.016
Orthometric Height:	3541.5984	0.029
Geoid Height:	-64.2393	

## CONTROL MARK DATA

NAME OF MARK: CB13 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 21 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

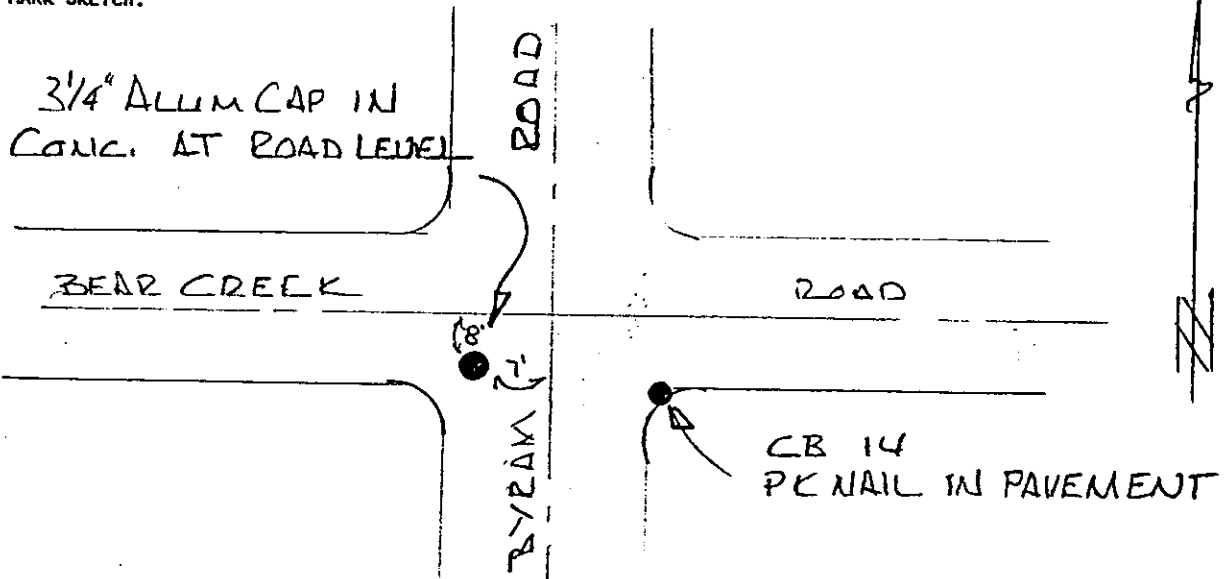
<u>MARK: CB13</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°04'50.018695"	ONE SIGMA ERROR
Longitude:	121°10'59.440098"	
Northing:	393956.4355	0.014
Easting:	3326323.8185	0.014
Convergence:	+0°04'10.8305"	
Scale Factor:	1.000160791297	
Ellipsoid Height:	3376.5594	0.024
Orthometric Height:	3440.8316	0.034
Geoid Height:	-64.2722	



## CONTROL MARK DATA

NAME OF MARK: CB14 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 5 TOWNSHIP 18 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

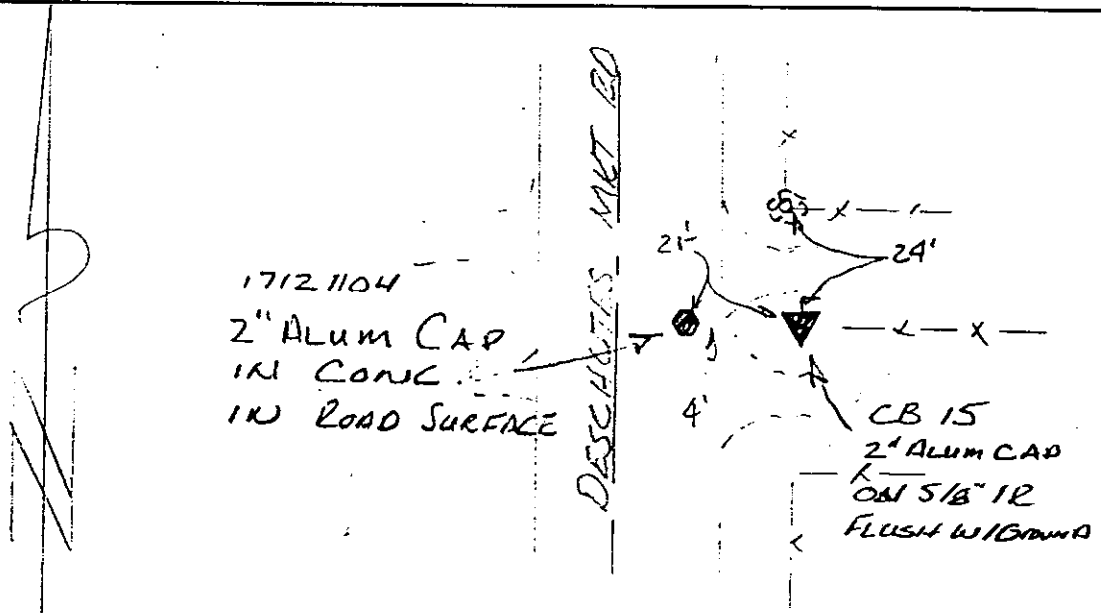
### GEODITIC AND MAPPING COORDINATES

<u>MARK: CB14</u>	HORIZONTAL ORDER: FIRST	
Latitude:	44°03'04.169910"	ONE SIGMA ERROR
Longitude:	121°11'35.654143"	
Northing:	383233.1333	0.011
Easting:	3323691.6213	0.010
Convergence:	+0°03'45.5179"	
Scale Factor:	1.000160640965	
Ellipsoid Height:	3485.0284	0.020
Orthometric Height:	3549.1492	0.032
Geoid Height:	-64.1208	

## CONTROL MARK DATA

NAME OF MARK: CB15 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

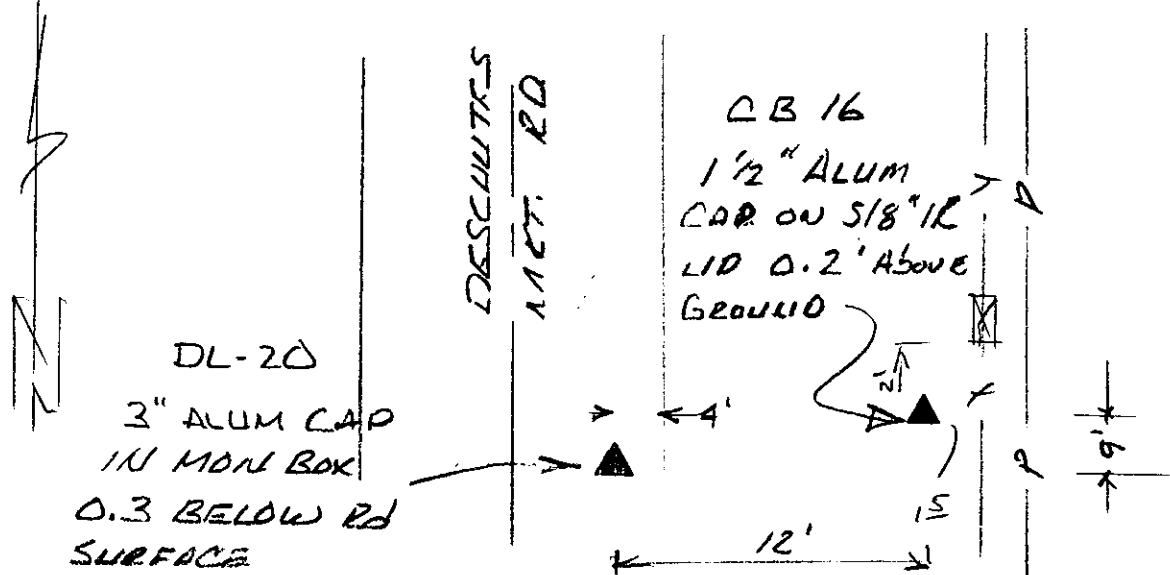
### GEODITIC AND MAPPING COORDINATES

<u>MARK: CB15</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°06'33.426082"	ONE SIGMA ERROR
Longitude:	121°15'12.900723"	
Northing:	404414.8814	0.013
Easting:	3307815.3381	0.014
Convergence:	+0°01'14.5442"	
Scale Factor:	1.000160069748	
Ellipsoid Height:	3343.3155	0.021
Orthometric Height:	3407.9898	0.033
Geoid Height:	-64.6743	

## CONTROL MARK DATA

NAME OF MARK: CB16 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

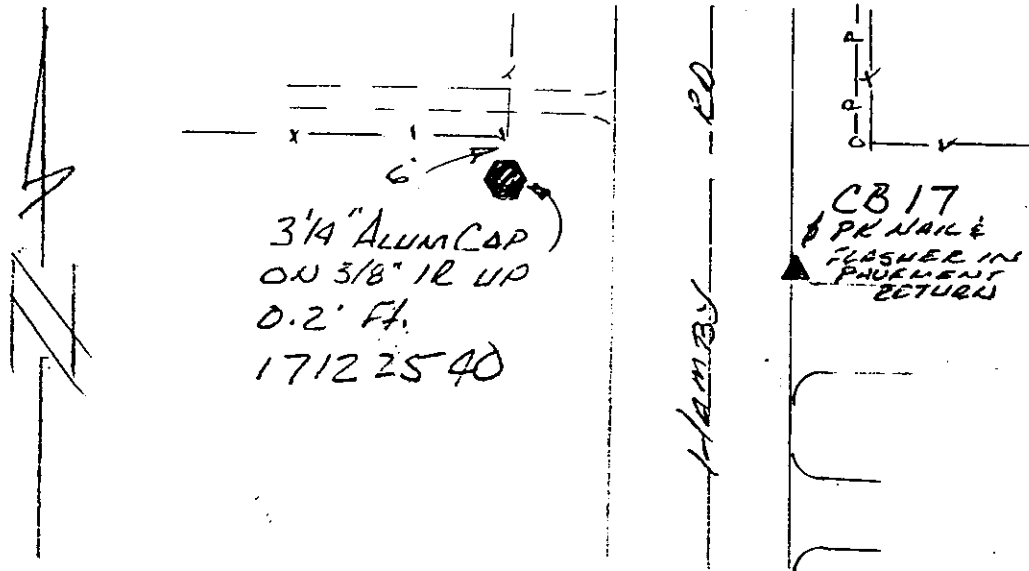
MARK: CB16 HORIZONTAL ORDER: FIRST

Latitude:	44°07'05.369018"	ONE SIGMA ERROR
Longitude:	121°15'12.777588"	
Northing:	407650.0572	0.014
Easting:	3307823.1529	0.018
Convergence:	+0°01'14.6419"	
Scale Factor:	1.000160069888	
Ellipsoid Height:	3311.3003	0.022
Orthometric Height:	3376.0396	0.034
Geoid Height:	-64.7393	

## CONTROL MARK DATA

NAME OF MARK: CB17 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 25 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

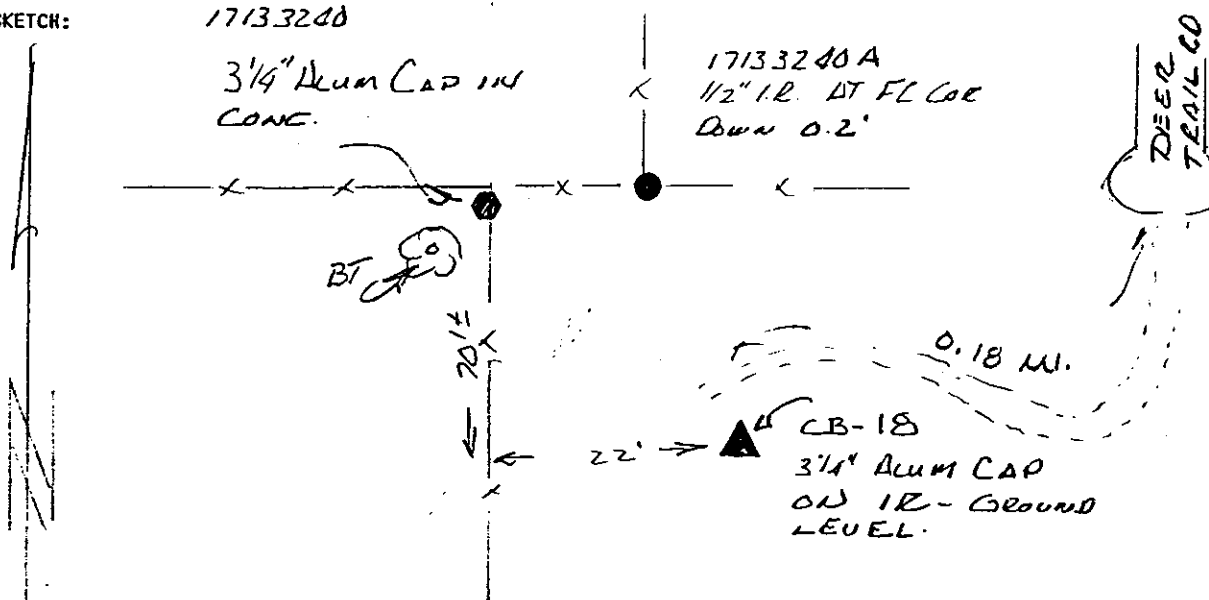
### GEODITIC AND MAPPING COORDINATES

<u>MARK: CB17</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°04'22.356141"	ONE SIGMA ERROR
Longitude:	121°14'36.454425"	
Northing:	391141.328	0.010
Easting:	3310481.3558	0.009
Convergence:	+0°01'39.8464"	
Scale Factor:	1.000160125452	
Ellipsoid Height:	3473.9335	0.018
Orthometric Height:	3538.31	0.031
Geoid Height:	-64.3765	

## CONTROL MARK DATA

NAME OF MARK: CB18 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 32 TOWNSHIP 17 S. RANGE 13 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

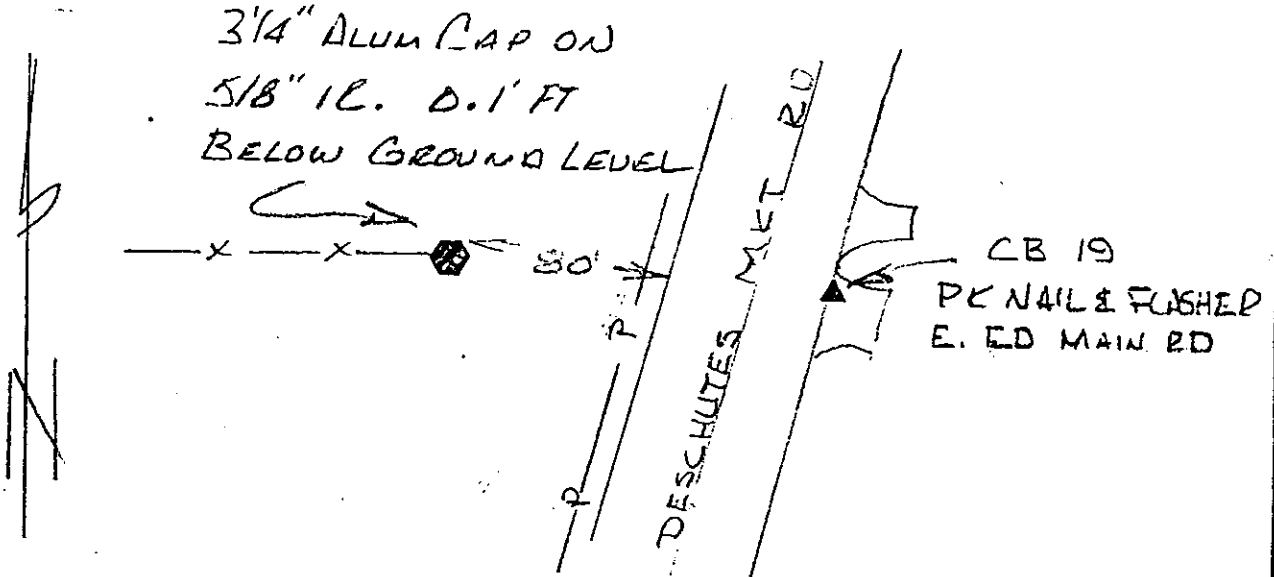
### GEODITIC AND MAPPING COORDINATES

MARK: <u>CB18</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'29.528626"	ONE SIGMA ERROR
Longitude:	121°12'12.105935"	
Northing:	385798.6835	0.013
Easting:	3321026.5324	0.011
Convergence:	+0°03'20.1984"	
Scale Factor:	1.000160504869	
Ellipsoid Height:	3488.3887	0.022
Orthometric Height:	3552.5782	0.033
Geoid Height:	-64.1895	

## CONTROL MARK DATA

NAME OF MARK: CB19 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 2 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

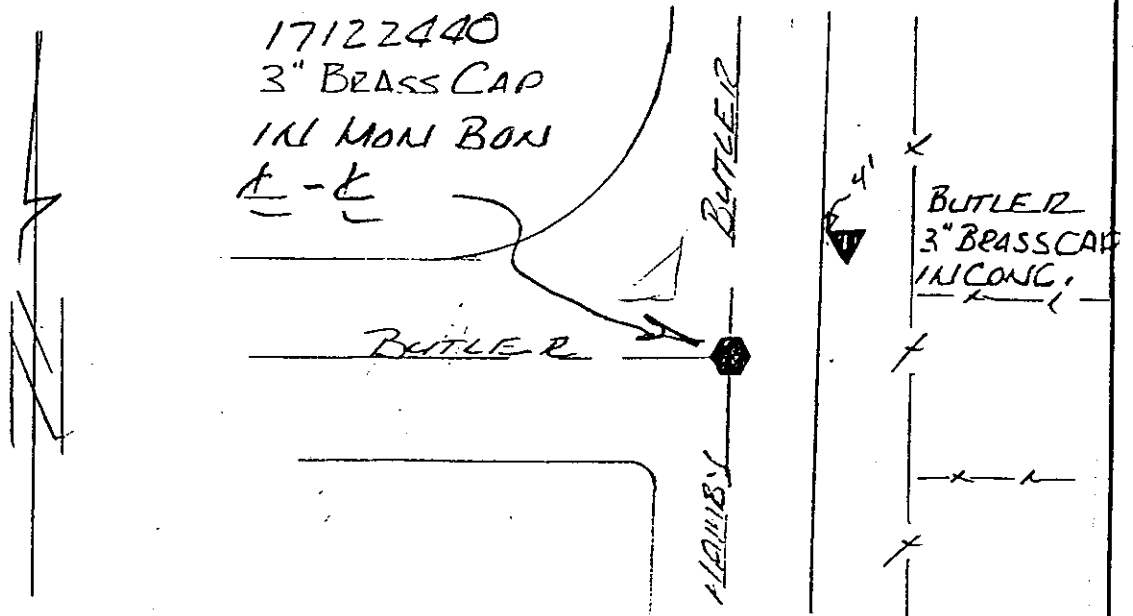
GEODITIC AND MAPPING COORDINATES

<u>MARK: CB19</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°07'25.535707"	ONE SIGMA ERROR
Longitude:	121°15'11.817755"	
Northing:	409692.5624	0.012
Easting:	3307892.4385	0.011
Convergence:	+0°01'15.3176"	
Scale Factor:	1.000160071131	
Ellipsoid Height:	3295.2594	0.022
Orthometric Height:	3360.0402	0.034
Geoid Height:	-64.7807	

## CONTROL MARK DATA

NAME OF MARK: BUTLER COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 24 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: BUTLER

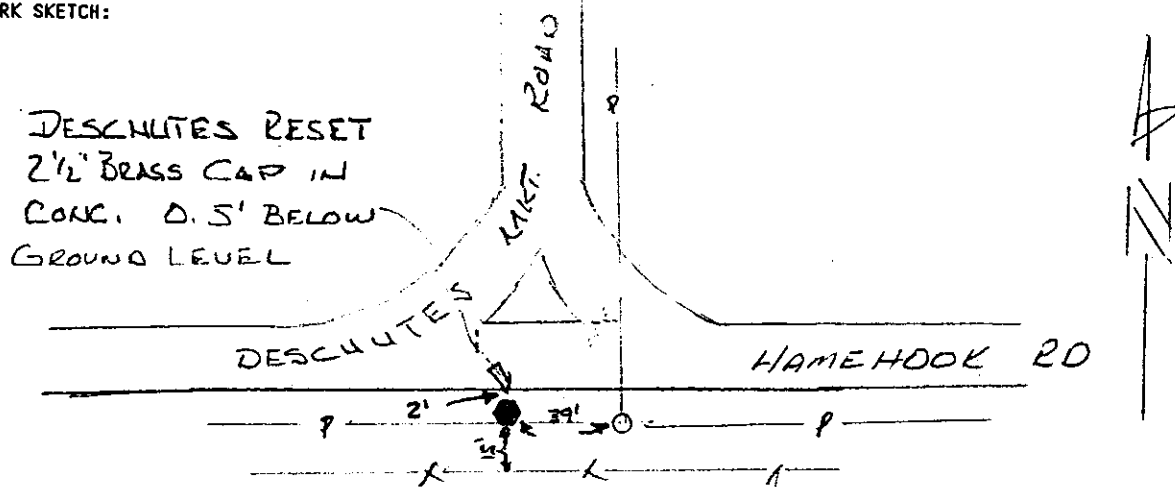
HORIZONTAL ORDER: FIRST

Latitude:	44°05'15.266512"	ONE SIGMA ERROR
Longitude:	121°14'36.436265"	
Northing:	396500.0465	0.009
Easting:	3310480.0871	0.007
Convergence:	+0°01'39.8855"	
Scale Factor:	1.000160125421	
Ellipsoid Height:	3410.0212	0.015
Orthometric Height:	3474.5074	0.029
Geoid Height:	-64.4861	

## CONTROL MARK DATA

NAME OF MARK: DESCHUTES RESET COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 14 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: DESCHUTES RESET HORIZONTAL ORDER: FIRST

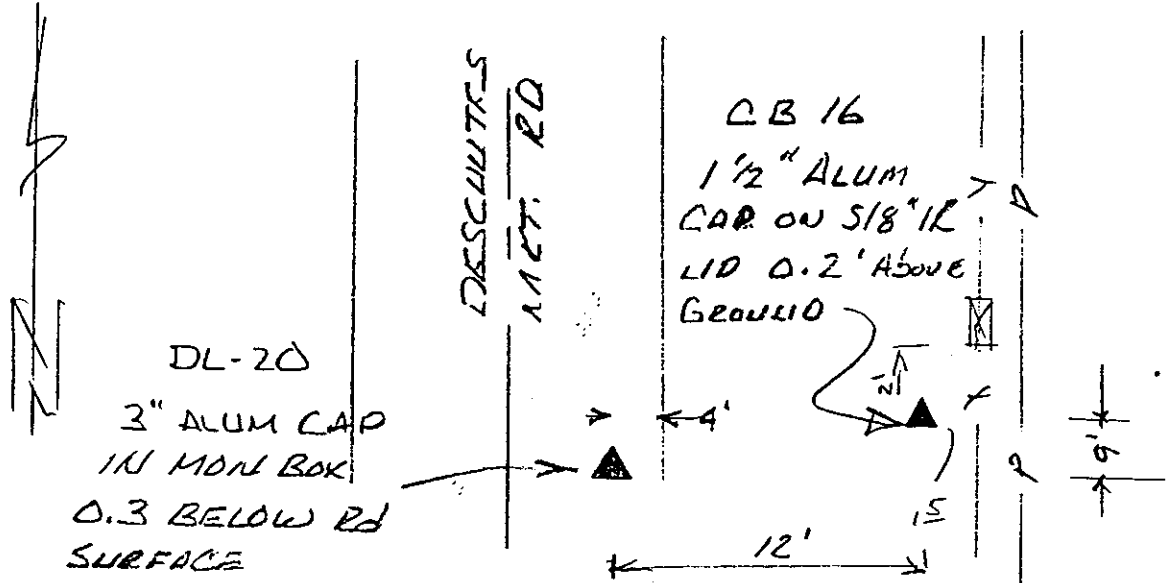
Latitude:	44°06'20.465077"	ONE SIGMA ERROR
Longitude:	121°15'13.411193"	
Northing:	403102.1821	0.010
Easting:	3307778.5598	0.010
Convergence:	+0°01'14.1841"	
Scale Factor:	1.000160069093	
Ellipsoid Height:	3348.9792	0.018
Orthometric Height:	3413.6269	0.031
Geoid Height:	-64.6477	



## CONTROL MARK DATA

NAME OF MARK: DL20 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 11 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

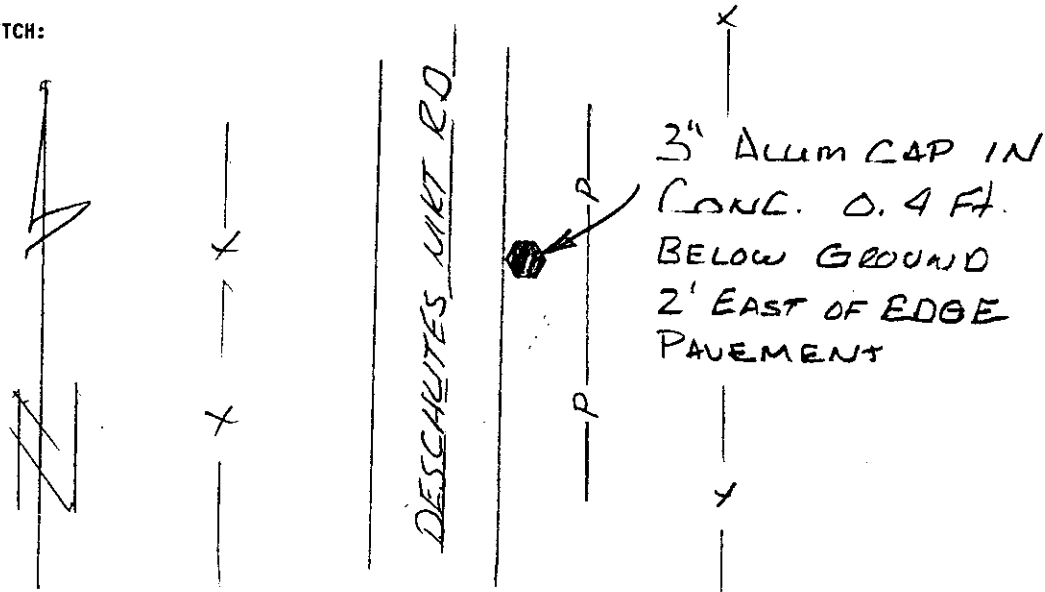
### GEODITIC AND MAPPING COORDINATES

MARK: <u>DL20</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°07'05.282651"	ONE SIGMA ERROR
Longitude:	121°15'12.951909"	
Northing:	407641.3054	0.028
Easting:	3307810.4373	0.037
Convergence:	+0°01'14.5205"	
Scale Factor:	1.000160069661	
Ellipsoid Height:	3311.2664	0.042
Orthometric Height:	3376.0056	0.042
Geoid Height:	-64.7393	

## CONTROL MARK DATA

NAME OF MARK: DL80 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 16 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

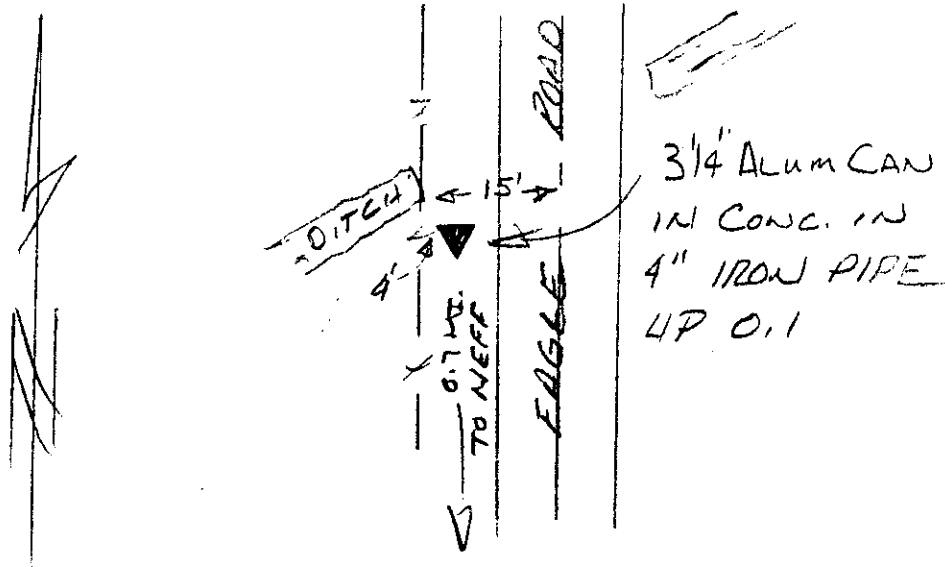
MARK: DL80 HORIZONTAL ORDER: FIRST

Latitude:	44°08'27.787442"	ONE SIGMA ERROR
Longitude:	121°15'12.476059"	
Northing:	415997.4056	0.010
Easting:	3307842.1233	0.008
Convergence:	+0°01'14.8826"	
Scale Factor:	1.000160070227	
Ellipsoid Height:	3254.7803	0.018
Orthometric Height:	3319.6948	0.032
Geoid Height:	-64.9145	

## CONTROL MARK DATA

NAME OF MARK: E010 COUNTY: DESCHUTES  
 MARK SET BY: LS 1081 JEFFERY KERN STATE: OREGON  
 DATE OF MARK: 1980 COUNTRY: U.S.A.  
 LOCATION: SECTION 26 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 1

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

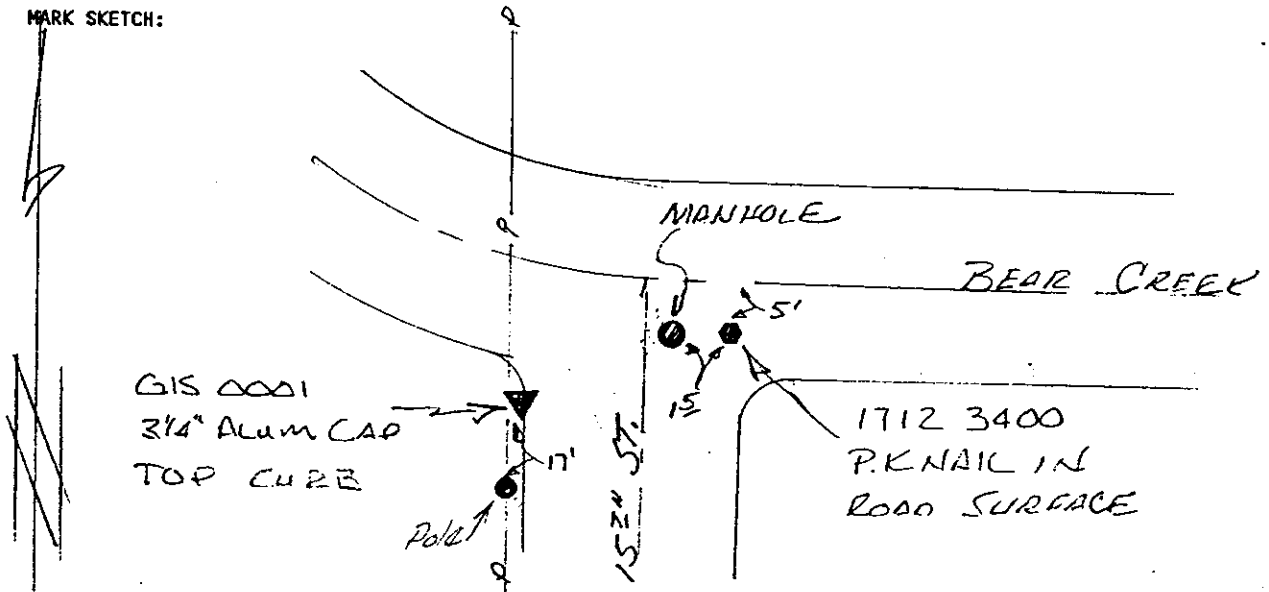
MARK: E010 HORIZONTAL ORDER: FIRST

Latitude:	44°04'30.528934"	ONE SIGMA ERROR
Longitude:	121°15'13.542454"	
Northing:	391967.9194	0.008
Easting:	3307772.9791	0.008
Convergence:	+0°01'14.0520"	
Scale Factor:	1.000160068995	
Ellipsoid Height:	3485.5945	0.015
Orthometric Height:	3550.0074	0.029
Geoid Height:	-64.413	

## CONTROL MARK DATA

NAME OF MARK: GIS\_01 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 4 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

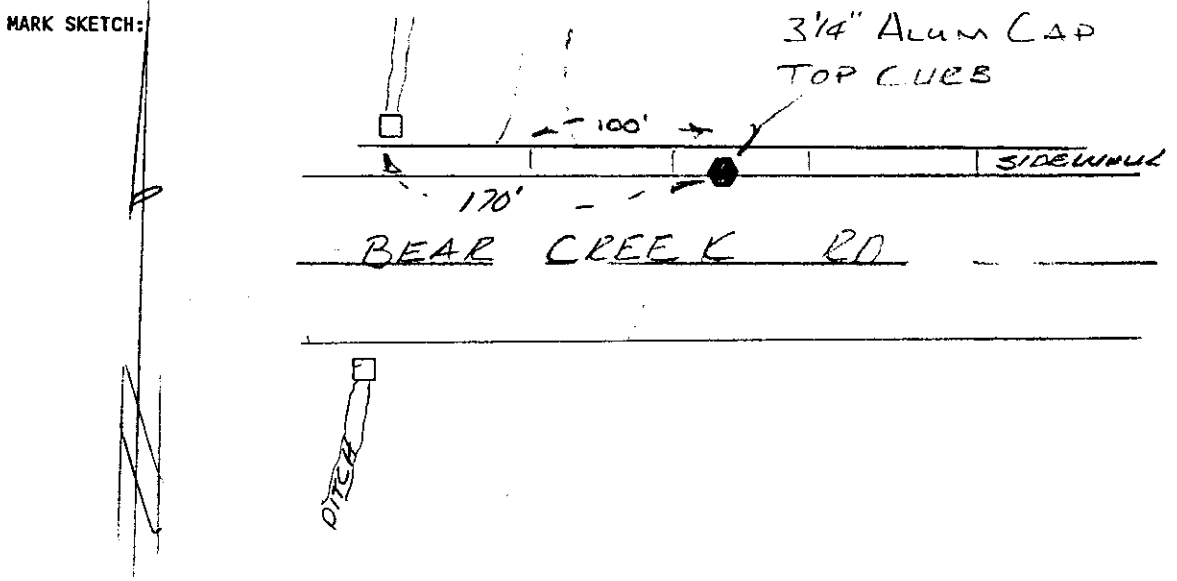
### GEODITIC AND MAPPING COORDINATES

MARK: GIS 01 HORIZONTAL ORDER: FIRST

Latitude:	44°03'04.549162"	ONE
Longitude:	121°17'01.952450"	SIGMA
		ERROR
Northing:	383258.5924	0.014
Easting:	3299857.3849	0.013
Convergence:	-0°00'01.3575"	
Scale Factor:	1.000160000023	
Ellipsoid Height:	3594.124	0.027
Orthometric Height:	3658.4084	0.037
Geoid Height:	-64.2844	

## CONTROL MARK DATA

NAME OF MARK: GIS 02 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

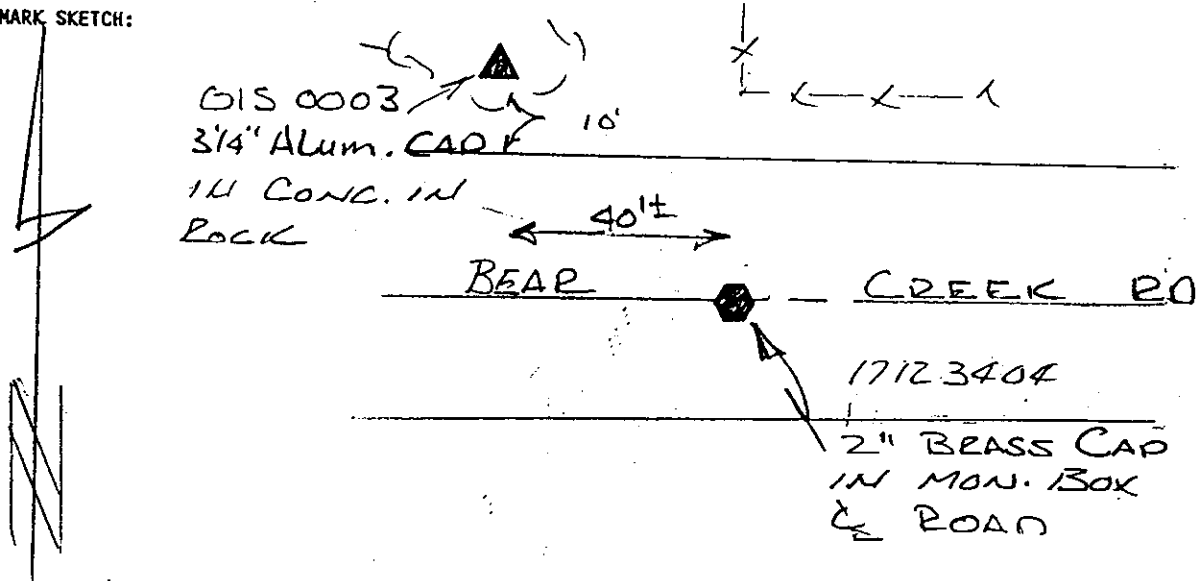
### GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 02</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'04.811210"	ONE SIGMA ERROR
Longitude:	121°16'48.104740"	FIXED
Northing:	383285.1492	FIXED
Easting:	3300868.8785	FIXED
Convergence:	+0°00'08.2708"	
Scale Factor:	1.000160000862	
Ellipsoid Height:	3605.8675	0.000
Orthometric Height:	3670.1378	FIXED
Geoid Height:	-64.2703	

**CONTROL MARK DATA**

NAME OF MARK: GIS 03 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

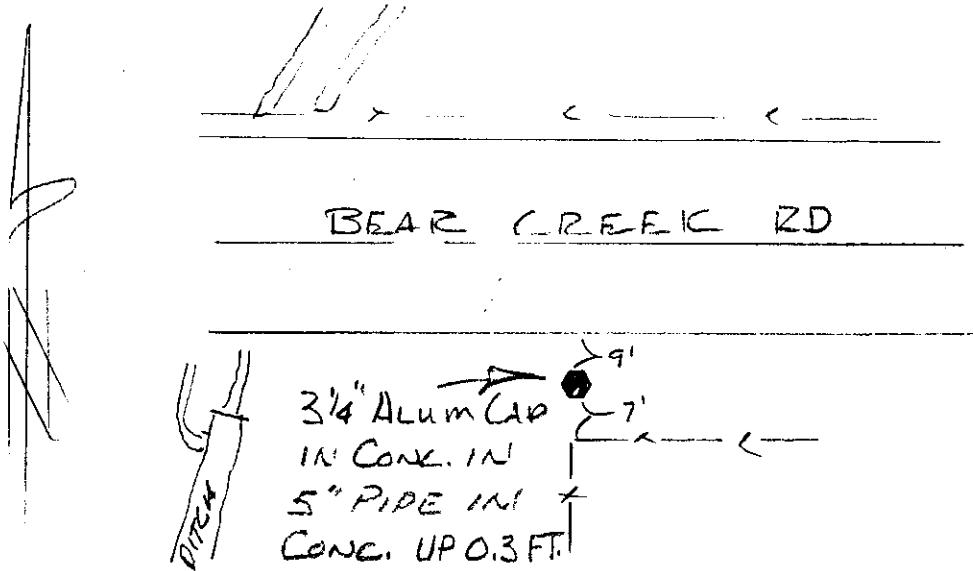
GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 03</u>	<u>HORIZONTAL ORDER: FIRST</u>	
Latitude:	44°03'05.056638"	ONE SIGMA ERROR
Longitude:	121°16'25.762402"	
Northing:	383310.1327	0.011
Easting:	3302500.8515	0.010
Convergence:	+0°00'23.8055"	
Scale Factor:	1.000160007142	
Ellipsoid Height:	3606.416	0.020
Orthometric Height:	3670.6752	0.033
Geoid Height:	-64.2591	

## CONTROL MARK DATA

NAME OF MARK: GIS 04 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 3 TOWNSHIP 18 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS  
 DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

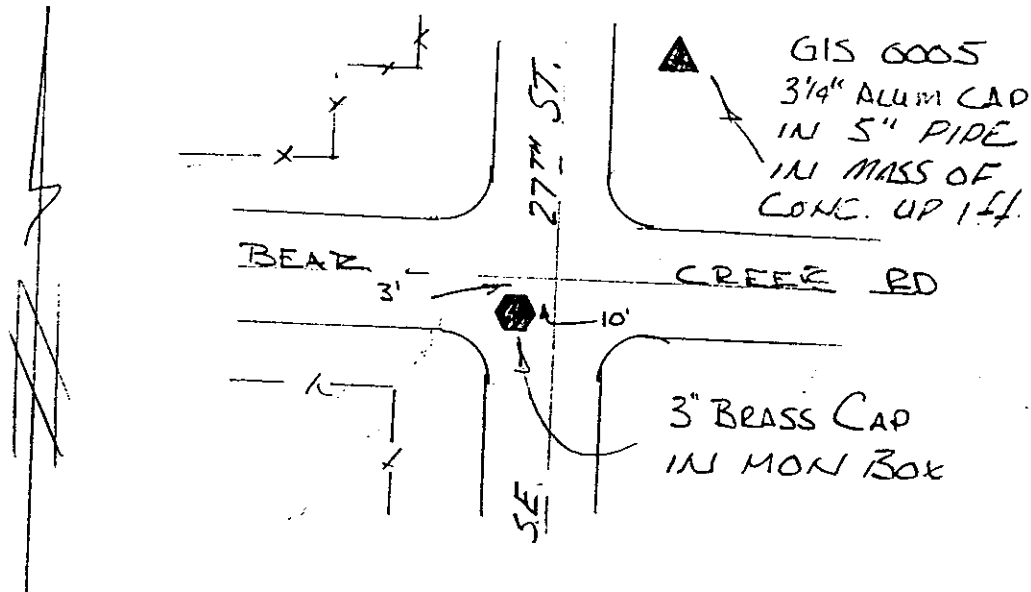
MARK: GIS 04 HORIZONTAL ORDER: SECOND

Latitude:	44°03'04.687120"	ONE
Longitude:	121°16'04.632040"	SIGMA
Northing:	383272.9415	ERROR
Easting:	3304044.3049	FIXED
Convergence:	+0°00'38.4975"	FIXED
Scale Factor:	1.000160018678	
Ellipsoid Height:	3597.587	0.000
Orthometric Height:	3661.8373	FIXED
Geoid Height:	-64.2503	

### CONTROL MARK DATA

NAME OF MARK: GIS 05 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 33 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

MARK: <u>GIS 05</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'05.906408"	ONE SIGMA ERROR
Longitude:	121°15'48.292458"	
Northing:	383396.685	0.010
Easting:	3305237.7858	0.009
Convergence:	+0°00'49.8587"	
Scale Factor:	1.000160031329	
Ellipsoid Height:	3587.4858	0.017
Orthometric Height:	3651.7295	0.031
Geoid Height:	-64.2436	



### CONTROL MARK DATA

NAME OF MARK: GIS 06 COUNTY: DESCHUTES  
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
DATE OF MARK: 1988 COUNTRY: U.S.A.  
LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: DGMC 7

MARK SKETCH:

DESTROYED

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

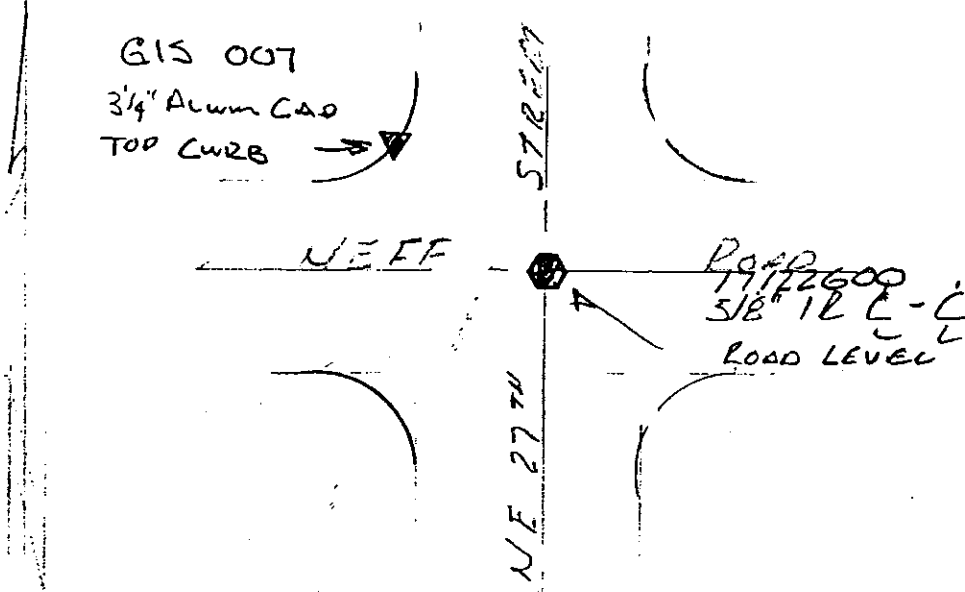
MARK: GIS 06 HORIZONTAL ORDER: FIRST

Latitude:	44°03'31.198875"	ONE SIGMA ERROR
Longitude:	121°15'50.033300"	
Northing:	385958.2429	0.009
Easting:	3305110.024	0.008
Convergence:	+0°00'48.6545"	
Scale Factor:	1.000160029819	
Ellipsoid Height:	3545.1889	0.017
Orthometric Height:	3609.4926	0.031
Geoid Height:	-64.3037	

## CONTROL MARK DATA

NAME OF MARK: GIS 07 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 27 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

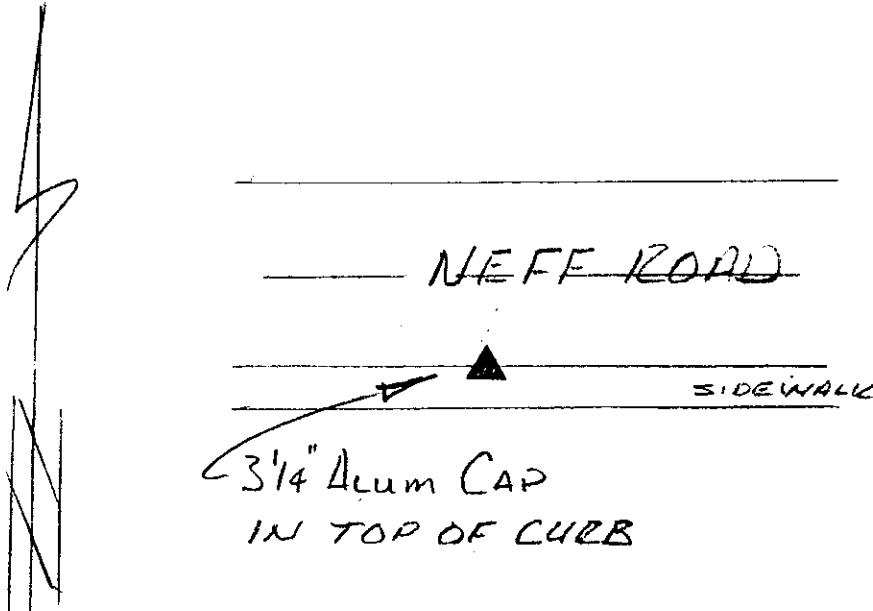
MARK: GIS 07 HORIZONTAL ORDER: SECOND

Latitude:	44°03'57.047310"	ONE
Longitude:	121°15'49.885040"	SIGMA
Northing:	388576.1448	ERROR
Easting:	3305120.2333	FIXED
Convergence:	+0°00'48.7639"	FIXED
Scale Factor:	1.000160029938	
Ellipsoid Height:	3518.3301	0.000
Orthometric Height:	3582.6903	FIXED
Geoid Height:	-64.3602	

## CONTROL MARK DATA

NAME OF MARK: GIS 08 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

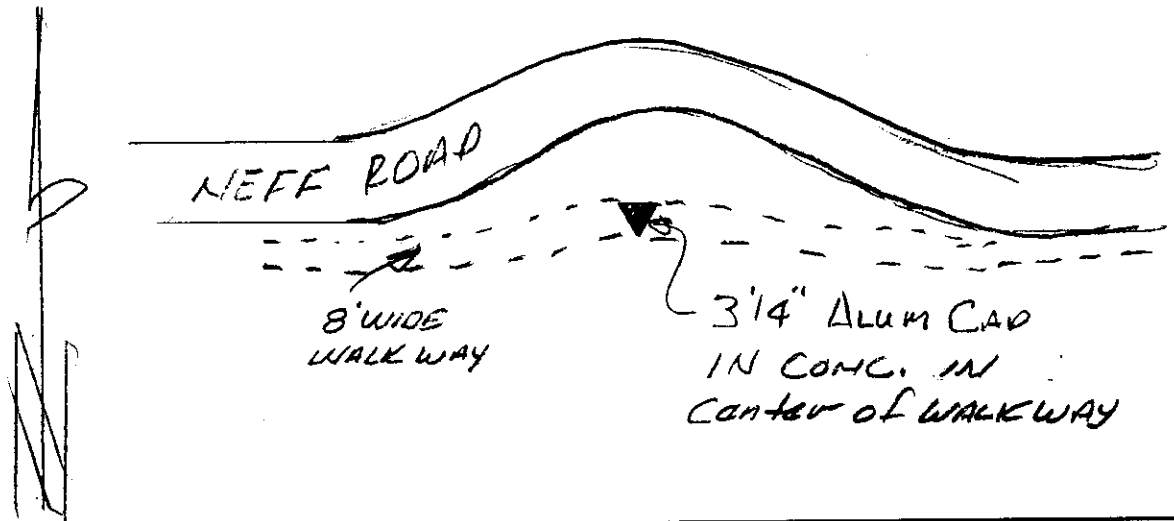
### GEODITIC AND MAPPING COORDINATES

<u>MARK: GIS 08</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude:	44°03'56.400950"	ONE SIGMA ERROR
Longitude:	121°16'30.199590"	
Northing:	388510.1862	FIXED
Easting:	3302176.2191	FIXED
Convergence:	+0°00'20.7257"	
Scale Factor:	1.000160005408	
Ellipsoid Height:	3543.7825	0.000
Orthometric Height:	3608.1627	FIXED
Geoid Height:	-64.3803	

# CONTROL MARK DATA

NAME OF MARK: GIS 10 COUNTY: DESCHUTES  
MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
DATE OF MARK: 1988 COUNTRY: U.S.A.  
LOCATION: SECTION 34 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

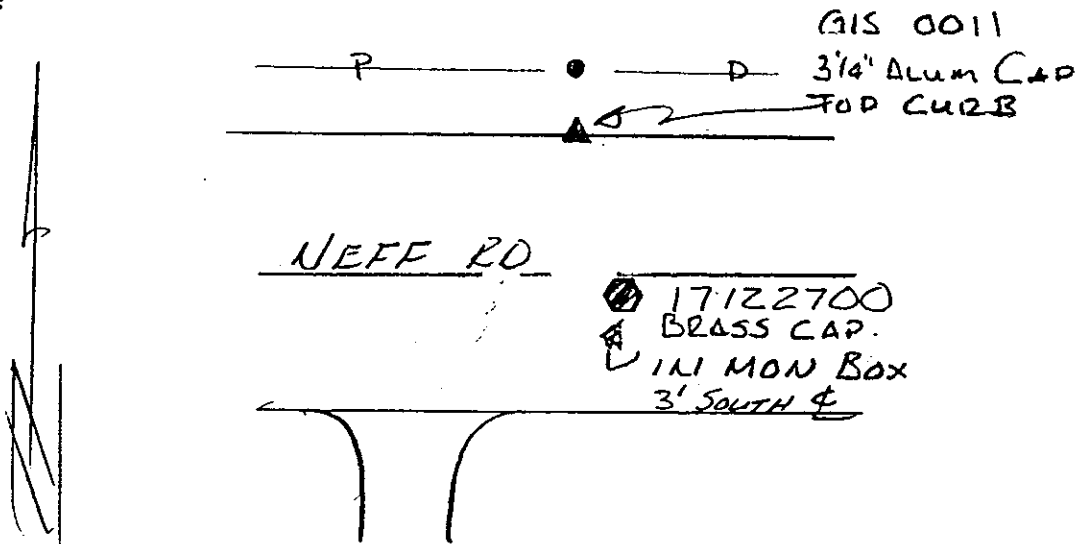
## GEOIDIC AND MAPPING COORDINATES

MARK: <u>GIS 010</u>	HORIZONTAL ORDER: <u>SECOND</u>	
Latitude: <u>44°03'56.469580"</u>		ONE SIGMA ERROR
Longitude: <u>121°16'53.087650"</u>		
Northing: <u>388517.0335</u>		FIXED
Easting: <u>3300504.7844</u>		FIXED
Convergence: <u>+0°00'04.8074"</u>		
Scale Factor: <u>1.000160000291</u>		
Ellipsoid Height: <u>3619.1743</u>		0.000
Orthometric Height: <u>3683.5696</u>		FIXED
Geoid Height: <u>-64.3953</u>		

## CONTROL MARK DATA

NAME OF MARK: GIS 11 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 28 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

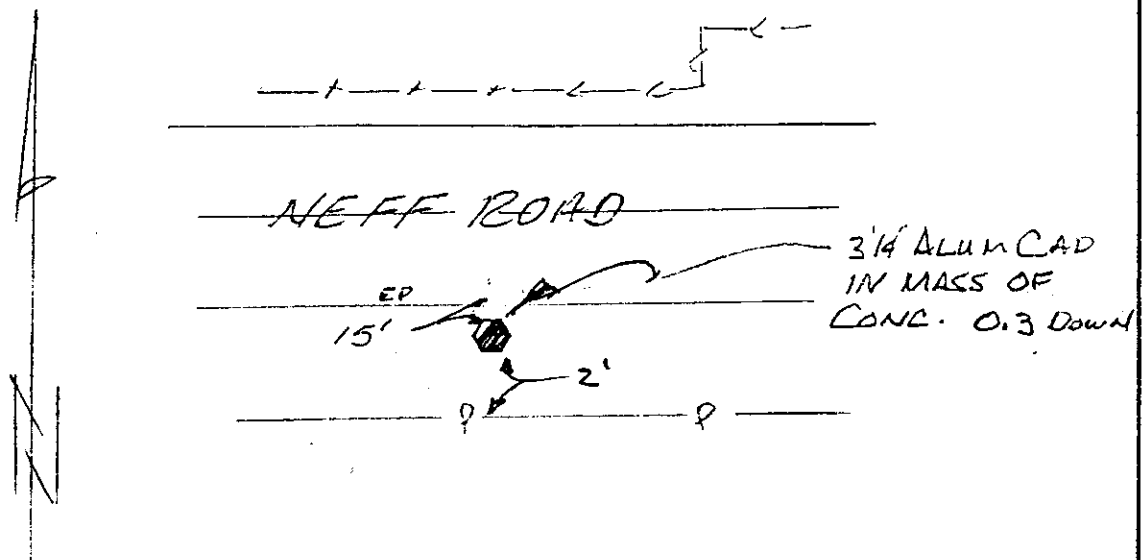
### GEODITIC AND MAPPING COORDINATES

MARK: <u>GIS 11</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.606541"	ONE SIGMA ERROR
Longitude:	121°17'01.526807"	
Northing:	388530.8992	0.011
Easting:	3299888.5028	0.009
Convergence:	-0°00'01.0619"	
Scale Factor:	1.000160000014	
Ellipsoid Height:	3610.7118	0.018
Orthometric Height:	3675.1158	0.031
Geoid Height:	-64.404	

## CONTROL MARK DATA

NAME OF MARK: GIS 12 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1988 COUNTRY: U.S.A.  
 LOCATION: SECTION 35 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

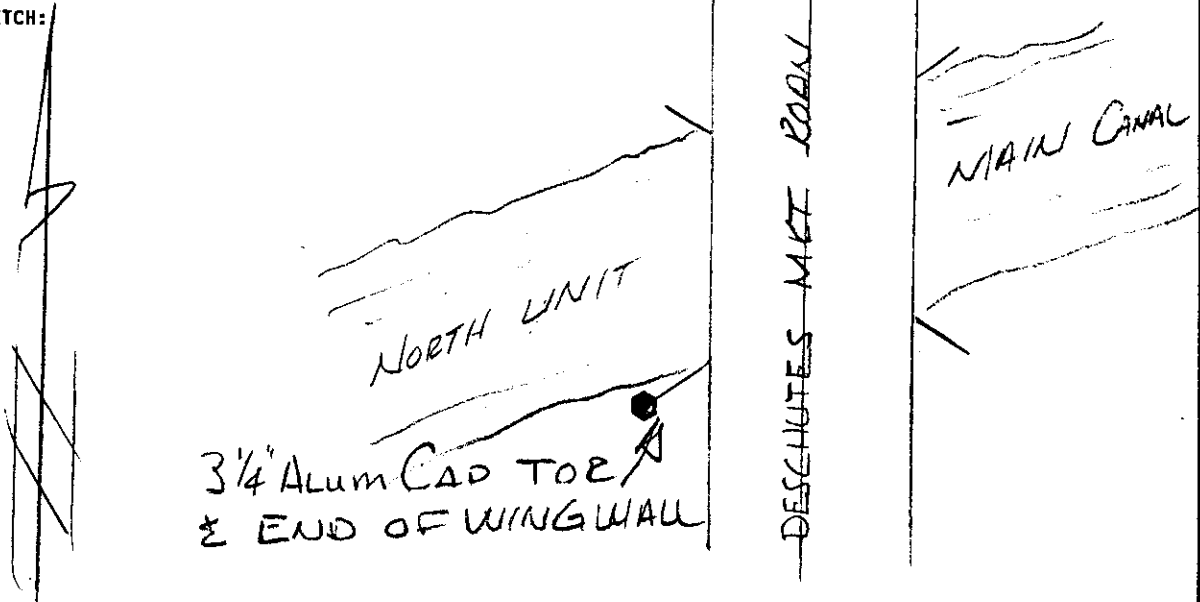
### GEODITIC AND MAPPING COORDINATES

MARK: <u>GIS 12</u>	HORIZONTAL ORDER: <u>FIRST</u>	
Latitude:	44°03'56.493393"	ONE SIGMA ERROR
Longitude:	121°15'36.406295"	
Northing:	388520.2997	0.009
Easting:	3306104.5514	0.007
Convergence:	+0°00'58.1380"	
Scale Factor:	1.000160042555	
Ellipsoid Height:	3524.4414	0.016
Orthometric Height:	3588.7945	0.030
Geoid Height:	-64.353	

## CONTROL MARK DATA

NAME OF MARK: GIS 100 COUNTY: DESCHUTES  
 MARK SET BY: DESCHUTES CO. SURVEYOR STATE: OREGON  
 DATE OF MARK: 1992 COUNTRY: U.S.A.  
 LOCATION: SECTION 23 TOWNSHIP 17 S. RANGE 12 E. MERIDIAN: WILLAMETTE  
 REFERENCE NUMBER: DGMC 7

MARK SKETCH:



DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
 FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
 VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
 COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
 ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
 LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

### GEODITIC AND MAPPING COORDINATES

MARK: GIS 100

HORIZONTAL ORDER: FIRST

Latitude:	44°05'23.787414"	ONE
Longitude:	121°15'31.642074"	SIGMA
		ERROR
Northing:	397361.4612	0.011
Easting:	3306449.8311	0.011
Convergence:	+0°01'01.4783"	
Scale Factor:	1.000160047505	
Ellipsoid Height:	3400.812	0.019
Orthometric Height:	3465.352	0.031
Geoid Height:	-64.54	

### CONTROL MARK DATA

NAME OF MARK: BLACK BUTTE LOOKOUT COUNTY: DESCHUTES  
MARK SET BY: DATA FROM USC&GS STATE: OREGON  
DATE OF MARK: UNKNOWN COUNTRY: U.S.A.  
LOCATION: SECTION 34 TOWNSHIP 13 S. RANGE 9 E. MERIDIAN: WILLAMETTE  
REFERENCE NUMBER: NONE NONE

MARK SKETCH:

*LOOKOUT TOWER ON TOP OF  
BLACK BUTTE WEST OF SISTERS*

DATA COMPUTED BY: DESCHUTES COUNTY SURVEYOR'S OFFICE DATE: 1992-1993  
FIELD METHOD: GPS FIELD EQUIPMENT: TRIMBLE 4000ST ADJUSTED WITH: TRIMNET PLUS

DATUM: HORIZONTAL= NAD (83-91) CENTRAL MERIDIAN: W 121°17'00.000000"  
VERTICAL= NGVD 29 LATITUDE OF ORIGIN: N 43°00'00.000000"  
COORDINATE SYSTEM: TRANSVERSE MERCATOR ORIGIN NORTHING: 0.0000 F  
ZONE: DESCHUTES COUNTY ORIGIN EASTING: 3,300,000.0000 F  
LINEAR UNITS: INTERNATIONAL FOOT SCALE ALONG MERIDIAN: 1.000160000000

#### GEODITIC AND MAPPING COORDINATES

MARK: BLACK BUTTE LOOKOU HORIZONTAL ORDER: SECOND

Latitude:	44°23'59.008940"	ONE
Longitude:	121°38'07.705650"	SIGMA
Northing:	510510.3795	ERROR
Easting:	3207946.1069	FIXED
Convergence:	-0°14'46.9686"	FIXED
Scale Factor:	1.000169676002	
Ellipsoid Height:	0	NOT
Orthometric Height:	0	NOT
Geoid Height:	0	