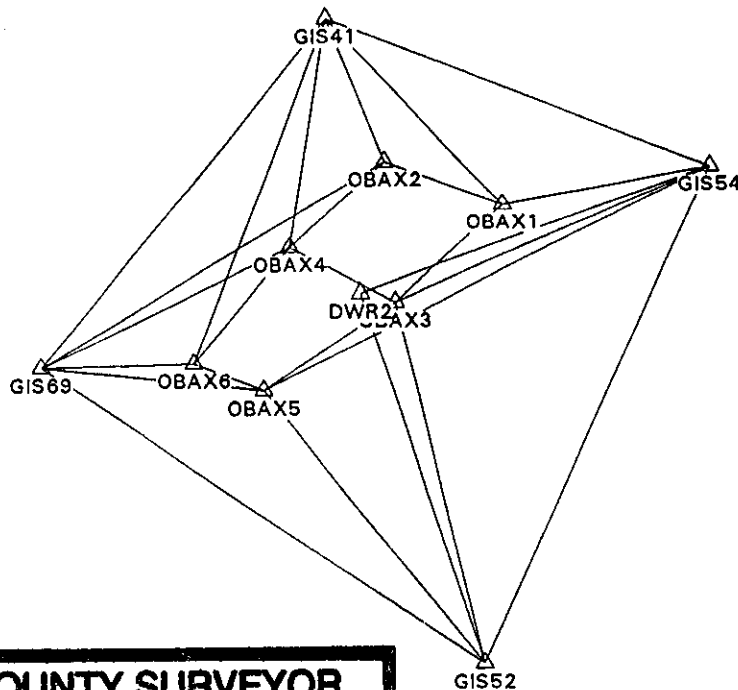


GPS SURVEY REPORT FOR DESCHUTES RIVER FLOOD STUDY

BY

DAVID EVANS & ASSOCIATES
PORTLAND, OREGON
1995

DGMC # 16



DESCHUTES COUNTY SURVEYOR
FILED 11-2-95 BY: J. Odde

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Retrieval Date and Time: 05/18/1995 10:43:42

Station Number: BAX1
Station Name: OBAX-1
Section: 19 Township: 20S Range: 11E
1/4 Section: NW County: DESCHUTES
Date Set: 04/12/1995 State: OR
Firm: David Evans and Associates, Inc.

GEODETIC DATUM: NAD 83/91
LAT.: 43° 49' 50.93840" N
LONG: 121° 27' 27.80467" W
SPCS DATUM: ORS3602
Northing: 790178.472+/-0.016
Easting: 4668541.187+/-0.013

Addr: 2828 S.W. Corbett
Portland, Oregon 97201-4830

VERTICAL DATUM: NGVD 29/47
GEOID MODEL: GEOID93W
Orthometric Elev.: 4175.424
+/-0.033
Ellipsoidal Elev.: 4110.339
Separation: -65.085
Convergence: 0°39'18.806468"
Scale Factor: 0.99996141

GPS: YES Type:
Group: C Order: 1
PPM: 10

Statement per ORS 209.250(6)(g)

THIS WORK WAS DONE FOR OGDEN BEEMAN AND ASSOCIATES, IN MAY OF 1995, USING TRIMBLE 4000 SSE DUAL FREQUENCY RECEIVERS. HORIZONTAL AND VERTICAL CONTROL USED ARE FOUR DESCHUTES COUNTY PRIME CONTROL NETWORK STATIONS: GIS 41, GIS 52, GIS 54 AND GIS 69.

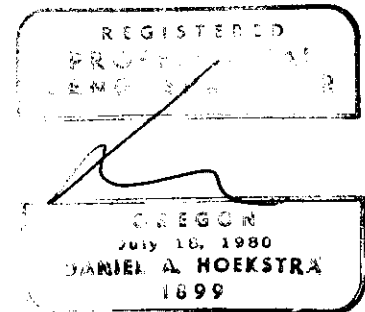
Directions to the Monument:

FROM SOUTH CENTURY DRIVE GO NORTH ON SNOW GOOSE ROAD 0.6 MILE, GO RIGHT ON SCAUP DRIVE 0.2 MILE, GO LEFT ON BLACK DUCK ROAD 0.2 MILE, GO LEFT ON HARLEQUIN DRIVE AND THE STATION ON THE RIGHT AT THE NORTHWEST CORNER OF THE INTERSECTION.

Monument Type: 2.5 IN. DIAM. BRASS CAP ON 2 IN. DIAM. GALVANIZED I.P.
Stamping: OBAX-1

Description of the Monument:

THE STATION IS A BRASS CAP WITH DEA CASTING. NORTH EDGE OF HARLEQUIN DRIVE BEARS SOUTH 30 FEET, WEST EDGE OF BLACK DUCK ROAD BEARS EAST 12 FEET, POWERPOLE BEARS S 24 W 19.7 FEET, GUY POLE BEARS S 68 E 54.5 FEET.



SURVEYOR'S STAMP

1 meter = 3.28083333... U.S. Feet = 39.37 inches exactly
1 meter = 3.280839895 Intl. Feet or 1 inch = 2.54 cm. exactly
To calculate Elevation Factor (in the North American Continent)
Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Retrieval Date and Time: 05/18/1995 10:43:43

Station Number: BAX2
Station Name: OBAX-2
Section: 13 Township: 20S Range: 10E
1/4 Section: SW County: DESCHUTES
Date Set: 04/12/1995 State: OR
Firm: David Evans and Associates, Inc.

GEODETIC DATUM: NAD 83/91
LAT.: 43° 50' 18.38087" N
LONG: 121° 28' 38.59354" W

SPCS DATUM: ORS3602
Northing: 793016.910+/-0.010
Easting: 4663385.136+/-0.010

Addr: 2828 S.W. Corbett

Portland, Oregon 97201-4830

VERTICAL DATUM: NGVD 29/47
GEOID MODEL: GEOID93W
Orthometric Elev.: 4160.734
+/-0.026
Ellipsoidal Elev.: 4095.590
Separation: -65.145
Convergence: 0°40'7.236482"
Scale Factor: 0.99996296

GPS: YES Type:
Group: C Order: 1
PPM: 10

Statement per ORS 209.250(6)(g)

THIS WORK WAS DONE FOR OGDEN BEEMAN AND ASSOCIATES, IN MAY OF 1995, USING TRIMBLE 4000 SSE DUAL FREQUENCY RECEIVERS. HORIZONTAL AND VERTICAL CONTROL USED ARE FOUR DESCHUTES COUNTY PRIME CONTROL NETWORK STATIONS: GIS 41, GIS 52, GIS 54 AND GIS 69.

Directions to the Monument:

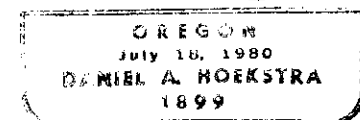
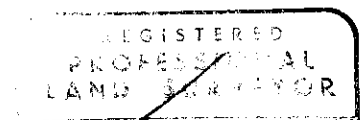
FROM SPRING RIVER ROAD GO SOUTH ON SOLAR DRIVE 1.9 MILES, TURN RIGHT AND GO WEST ON ISLAND LOOP WAY 0.7 MILE TO THE STATION ON THE RIGHT, ABOUT 200 FEET WEST OF THE ROAD AND 30 FEET EAST OF A CANAL.

Monument Type: 2.5 IN. DIAM. BRASS CAP ON 2 IN. DIAM. GALVANIZED I.P.
Stamping: OBAX-2

Description of the Monument:

THE STATION IS A BRASS CAP WITH DECA CASTING, IT IS LOCATED IN A VACANT LOT BETWEEN TWO HOUSES, ON THE WEST END OF ISLAND LOOP WAY, ABOUT 30 FEET EAST OF THE CANAL.

A 14" LODGE POLE PINE BEARS N 70 E 36.5 FEET, A 10" LODGE POLE PINE BEARS S 45 E 30.0 FEET.



SURVEYOR'S STAMP

1 meter = 3.28083333... U.S. Feet = 39.37 inches exactly
1 meter = 3.280839895 Intl. Feet or 1 inch = 2.54 cm. exactly
To calculate Elevation Factor (in the North American Continent)
Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Retrieval Date and Time: 05/18/1995 10:43:44

Station Number: BAX3
Station Name: OBAX-3
Section: 25 Township: 20S Range: 10E
1/4 Section: NE County: DESCHUTES
Date Set: 04/06/1995 State: OR
Firm: David Evans and Associates, Inc.

GEODETIC DATUM: NAD 83/91
LAT.: 43° 48' 50.84894" N
LONG: 121° 28' 32.97493" W
SPCS DATUM: ORS3602
Northing: 784149.714+/-0.010
Easting: 4663693.632+/-0.010

Addr: 2828 S.W. Corbett
Portland, Oregon 97201-4830

VERTICAL DATUM: NGVD 29/47
GEOID MODEL: GEOID93W
Orthometric Elev.: 4186.527
+/-0.023
Ellipsoidal Elev.: 4121.312
Separation: -65.215
Convergence: 0°40'3.392525"
Scale Factor: 0.99995807

GPS: YES Type:
Group: C Order: 1
PPM: 10

Statement per ORS 209.250(6)(g)

THIS WORK WAS DONE FOR OGDEN BEEMAN AND ASSOCIATES, IN MAY OF 1995, USING TRIMBLE 4000 SSE DUAL FREQUENCY RECEIVERS. HORIZONTAL AND VERTICAL CONTROL USED ARE FOUR DESCHUTES COUNTY PRIME CONTROL NETWORK STATIONS: GIS 41, GIS 52, GIS 54 AND GIS 69.

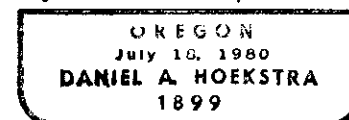
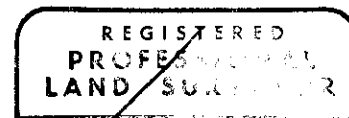
Directions to the Monument:

FROM GENERAL PATCH BRIDGE GO EAST ON SOUTH CENTURY DRIVE 1.0 MILE TO A DIRT ROAD SOUTH, GO RIGHT AND GO SOUTH (KEEP LEFT AT A FIBERGLASS PADDLE SIGN MARKED 4205-100) AND SOUTHEASTERLY 0.2 MILE TO THE STATION ON THE LEFT.

Monument Type: 2.5 IN. DIAM. BRASS CAP ON 2 IN. DIAM. GALVANIZED I.P.
Stamping: OBAX-3

Description of the Monument:

THE STATION IS A BRASS CAP WITH DECA CASTING LOCATED ABOUT 50 FEET NORTH OF THE ROAD. A 10" DIAM. LODGE POLE PINE WITH NAIL AND FLASHER BEARS N 30 W 45.0 FEET, A 12" DIAM. STUMP WITH NAIL AND FLASHER BEARS S 58 E 30 FEET.



SURVEYOR'S STAMP

1 meter = 3.28083333... U.S. Feet = 39.37 inches exactly
1 meter = 3.280839895 Intl. Feet or 1 inch = 2.54 cm. exactly
To calculate Elevation Factor (in the North American Continent)
Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Retrieval Date and Time: 05/18/1995 10:43:45

Station Number: BAX4
Station Name: OBAX-4
Section: 23 Township: 20S Range: 10E
1/4 Section: SE County: DESCHUTES
Date Set: 04/06/1995 State: OR
Firm: David Evans and Associates, Inc.

GEODETIC DATUM: NAD 83/91
LAT.: 43° 49' 24.73901" N
LONG: 121° 29' 36.41783" W
SPCS DATUM: ORS3602
Northing: 787635.672+/-0.010
Easting: 4659083.011+/-0.007

Addr: 2828 S.W. Corbett
Portland, Oregon 97201-4830

VERTICAL DATUM: NGVD 29/47
GEOID MODEL: GEOID93W
Orthometric Elev.: 4173.151
+/-0.020
Ellipsoidal Elev.: 4107.890
Separation: -65.261
Convergence: 0°40'46.796822"
Scale Factor: 0.99995994

GPS: YES Type:
Group: C Order: 1
PPM: 10

Statement per ORS 209.250(6)(g)

THIS WORK WAS DONE FOR OGDEN BEEMAN AND ASSOCIATES, IN MAY OF 1995, USING TRIMBLE 4000 SSE DUAL FREQUENCY RECEIVERS. HORIZONTAL AND VERTICAL CONTROL USED ARE FOUR DESCHUTES COUNTY PRIME CONTROL NETWORK STATIONS: GIS 41, GIS 52, GIS 54 AND GIS 69.

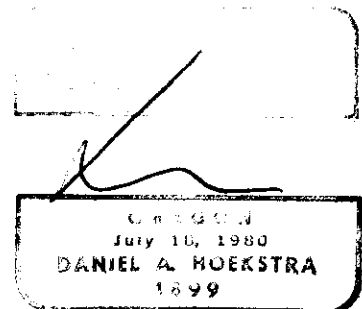
Directions to the Monument:

FROM GENERAL PATCH BRIDGE GO WEST ON CENTURY DRIVE 0.2 MILE TO FOREST LANE ON THE LEFT AND BONANZA ON THE RIGHT, TURN RIGHT AND GO NORTH ON BONANZA 0.4 MILE TO STAGE STOP, TURN RIGHT AND GO EAST ON STAGE STOP 0.2 MILE, TURN LEFT AND GO NORTH AND EAST ON WAGON MASTER 0.2 MILE TO THE STATION ON THE LEFT, ABOUT 90 YARDS NORTHEASTERLY OF A 3 STORY HOUSE @ 55733 WAGON MASTER.

Monument Type: 2.5 IN. DIAM. BRASS CAP ON 2 IN. DIAM. GALVANIZED I.P.
Stamping: OBAX-4

Description of the Monument:

THE STATION IS A BRASS CAP WITH DECA CASTING, LOCATED NORTH OF WAGON MASTER ROAD, IN A CLEAR CUT.
A 3 STORY HOUSE @ 55733 BEARS S 34 W 270 FEET, A 12" DIAM. STUMP WITH FLASHER BEARS NORTH-NORTHWESTERLY 4.9 FEET, A 16" DIAM. STUMP WITH FLASHER BEARS SOUTH-SOUTHEASTERLY 7.8 FEET.



SURVEYOR'S STAMP

1 meter = 3.28083333... U.S. Feet = 39.37 inches exactly
1 meter = 3.280839895 Intl. Feet or 1 inch = 2.54 cm. exactly
To calculate Elevation Factor (in the North American Continent)
Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Retrieval Date and Time: 05/18/1995 10:43:47

Station Number: BAX5
Station Name: OBAX-5
Section: 35 Township: 20S Range: 10E
1/4 Section: NW County: DESCHUTES
Date Set: 04/06/1995 State: OR
Firm: David Evans and Associates, Inc.

GEODETIC DATUM: NAD 83/91
LAT.: 43° 47' 56.34724" N
LONG: 121° 29' 52.57281" W

SPCS DATUM: ORS3602
Northing: 778700.380+/-0.007
Easting: 4657792.147+/-0.007

Addr: 2828 S.W. Corbett

Portland, Oregon 97201-4830

VERTICAL DATUM: NGVD 29/47
GEOID MODEL: GEOID93W
Orthometric Elev.: 4198.684²²⁰
+/-0.016
Ellipsoidal Elev.: 4132.719
Separation: -65.365
Convergence: 0°40'57.849207"
Scale Factor: 0.99995513

GPS: YES Type:
Group: C Order: 1
PPM: 10

Statement per ORS 209.250(6)(g)

THIS WORK WAS DONE FOR OGDEN BEEMAN AND ASSOCIATES, IN MAY OF 1995, USING TRIMBLE 4000 SSE DUAL FREQUENCY RECEIVERS. HORIZONTAL AND VERTICAL CONTROL USED ARE FOUR DESCHUTES COUNTY PRIME CONTROL NETWORK STATIONS: GIS 41, GIS 52, GIS 54 AND GIS 69.

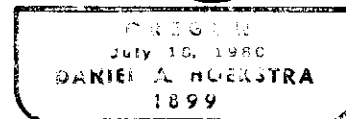
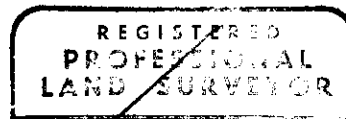
Directions to the Monument:

FROM 1000 TRAILS GO WEST ON SOUTH CENTURY DRIVE 0.8 MILE, TURN LEFT ON FOSTER ROAD (CINDERED) AND GO SOUTH-SOUTHWESTERLY 2.1 MILES TO BEAVER DRIVE (GRAVEL), TURN RIGHT AND GO WEST 0.2 MILE, TURN LEFT AND GO SOUTH ON MARTEN LANE (GRAVEL) 0.1 MILE TO THE STATION ON THE RIGHT.

Monument Type: 2.5 IN. DIAM. BRASS CAP ON 2 IN. DIAM. GALVANIZED I.P.
Stamping: OBAX-5

Description of the Monument:

THE STATION IS A BRASS CAP WITH DEA CASTING LOCATED ON THE WEST SIDE OF MARTEN LANE. A ROAD WEST BEARS SOUTH 220 FEET. A 1/2" DIAM. IRON ROD AT THE NORTHEAST CORNER OF A POLE FENCE BEARS WEST 8.0 FEET.



SURVEYOR'S STAMP

1 meter = 3.28083333... U.S. Feet = 39.37 inches exactly
1 meter = 3.280839895 Intl. Feet or 1 inch = 2.54 cm. exactly
To calculate Elevation Factor (in the North American Continent)
Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Retrieval Date and Time: 05/18/1995 10:43:48

Station Number: BAX6
Station Name: OBAX-6
Section: 34 Township: 20S Range: 10E
1/4 Section: NE County: DESCHUTES
Date Set: 04/06/1995 State: OR
Firm: David Evans and Associates, Inc.

GEODETIC DATUM: NAD 83/91
LAT.: 43° 48' 13.39888" N
LONG: 121° 30' 34.24413" W
SPCS DATUM: ORS3602
Northing: 780463.419+/-0.013
Easting: 4654757.066+/-0.010

Addr: 2828 S.W. Corbett
Portland, Oregon 97201-4830

VERTICAL DATUM: NGVD 29/47
GEOID MODEL: GEOID93W 170
Orthometric Elev.: 4288.152
+/-0.033
Ellipsoidal Elev.: 4222.758
Separation: -65.394
Convergence: 0°41'26.358532"
Scale Factor: 0.99995604

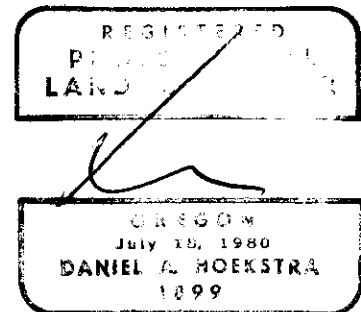
GPS: YES Type:
Group: C Order: 1
PPM: 10

Statement per ORS 209.250(6)(g)
THIS WORK WAS DONE FOR OGDEN BEEMAN AND ASSOCIATES, IN MAY OF 1995, USING TRIMBLE 4000 SSE DUAL FREQUENCY RECEIVERS. HORIZONTAL AND VERTICAL CONTROL USED ARE FOUR DESCHUTES COUNTY PRIME CONTROL NETWORK STATIONS: GIS 41, GIS 52, GIS 54 AND GIS 69.

Directions to the Monument:
FROM GENERAL PATCH BRIDGE GO WEST ON SOUTH CENTURY DRIVE 0.2 MILE TO FOREST LANE, TURN LEFT AND GO SOUTHERLY ON FOREST LANE 1 MILE, TURN LEFT AND GO WESTERLY ON BATES ROAD 0.4 MILE, TURN LEFT ON MUNSON STREET AND TO THE STATION ON THE LEFT, AT THE SOUTHEAST CORNER OF THE INTERSECTION.

Monument Type: 2.5 IN. DIAM. BRASS CAP ON 2 IN. DIAM. GALVANIZED I.P.
Stamping: OBAX-6

Description of the Monument:
THE STATION IS A BRASS CAP WITH DEA CASTING.
A STREET SIGN BEARS WESTERLY 6.0 FEET, EDGE OF PAVEMENT BEARS NORTHWESTERLY 10.0 FEET AND NORTHERLY 10.5 FEET.



SURVEYOR'S STAMP

1 meter = 3.28083333... U.S. Feet = 39.37 inches exactly
1 meter = 3.280839895 Intl. Feet or 1 inch = 2.54 cm. exactly
To calculate Elevation Factor (in the North American Continent)
Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet

Retrieval Date and Time: 05/18/1995 10:43:49

Station Number: DWR2
Station Name: DWR-2
Section: 25 Township: 20S Range: 10E
1/4 Section: NW County: DESCHUTES
Date Set: 01/01/1961 State: OR
Firm: David Evans and Associates, Inc.

GEODETIC DATUM: NAD 83/91
LAT.: 43° 48' 56.44228" N
LONG: 121° 28' 53.66341" W

SPCS DATUM: ORS3602
Northing: 784733.750+/-0.030
Easting: 4662183.489+/-0.020

Addr: 2828 S.W. Corbett

Portland, Oregon 97201-4830

VERTICAL DATUM: NGVD 29/47
GEOID MODEL:GEOID93W
Orthometric Elev.: 4171.998⁹⁷³
+/-0.059
Ellipsoidal Elev.: 4106.698
Separation: -65.239
Convergence: 0°40'17.546500"
Scale Factor: 0.99995838

GPS: YES Type:
Group: C Order: 1
PPM: 10

Statement per ORS 209.250(6)(g)

THIS WORK WAS DONE FOR OGDEN BEEMAN AND ASSOCIATES, IN MAY OF 1995, USING TRIMBLE 4000 SSE DUAL FREQUENCY RECEIVERS. HORIZONTAL AND VERTICAL CONTROL USED ARE FOUR DESCHUTES COUNTY PRIME CONTROL NETWORK STATIONS: GIS 41, GIS 52, GIS 54 AND GIS 69.

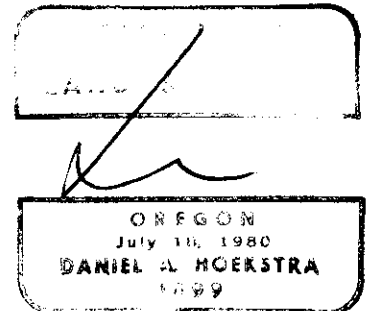
Directions to the Monument:

FROM GENERAL PATCH BRIDGE GO EAST ON CENTURY DRIVE FOR 1 MILE TO SEEVERS ROAD ON THE LEFT AND THE STATION ON THE RIGHT, 27 FEET SOUTH OF CENTERLINE.

Monument Type: 4 IN. DIAM. BRASS DISK IN CONCRETE POST
Stamping: DWR-2 4172 FEET 1961

Description of the Monument:

THE STATION IS A STANDARD BRASS DISK WITH US GEOLOGICAL SURVEY CASTING. THE STATION IS LOCATED 27 FEET SOUTH OF THE CENTERLINE OF SOUTH CENTURY DRIVE AND ON THE SOUTHERLY PROJECTION OF THE EAST DITCH-LINE OF SEEVERS ROAD.



SURVEYOR'S STAMP

1 meter = 3.28083333... U.S. Feet = 39.37 inches exactly
1 meter = 3.280839895 Intl. Feet or 1 inch = 2.54 cm. exactly
To calculate Elevation Factor (in the North American Continent)
Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet

David Evans and Associates, Inc.
 2828 S.W. Corbett
 Portland Oregon 97201-4830
 (503) 223-6663

Vertical Datum NGVD 29/47

Horizontal Datum: NAD 83/91

Zone : ORS3602

State Plane in INTERNATIONAL FEET, Elevations in US SURVEY FEET

Coordinate Source [GEOLAB]: C:\GEOLAB2\BEND\PBAX5-F.1

Retrieved: 05/08/1995 17:22:02 Archived: 05/08/1995

NAME	LATITUDE	LONGITUDE	NORTHING	EASTING	ORTHOMETRIC ELEVATION	SCALE FACTOR	ELEVATION FACTOR	COMBINED FACTOR	CONVERGENCE
BAX1	43°49'50.93840"N	121°27'27.80467"W	790178.472	4668541.187	4175.424	0.99996141	0.99980343	0.99976485	0°39'18.80"
BAX2	43°50'18.38087"N	121°28'38.59354"W	793016.910	4663385.136	4160.734	0.99996296	0.99980413	0.99976710	0°40'7.236"
BAX3	43°48'50.84894"N	121°28'32.97493"W	784149.714	4663693.632	4186.527	0.99995807	0.99980290	0.99976098	0°40'3.392"
BAX4	43°49'24.73901"N	121°29'36.41783"W	787635.672	4659083.011	4173.151	0.99995994	0.99980355	0.99976349	0°40'46.79"
BAX5	43°47'56.34724"N	121°29'52.57281"W	778700.380	4657792.147	4198.087	0.99995513	0.99980236	0.99975750	0°40'57.84"
BAX6	43°48'13.39888"N	121°30'34.24413"W	780463.419	4654757.066	4288.152	0.99995604	0.99979805	0.99975410	0°41'26.35"
DWR2	43°48'56.44228"N	121°28'53.66341"W	784733.750	4662183.489	4171.038	0.99995838	0.99980360	0.99976199	0°40'17.54"
IS41	43°51'45.73754"N	121°29'13.45441"W	801891.593	4660934.581	4271.855	0.99996801	0.99979882	0.99976683	0°40'31.08"
IS52	43°45'10.54426"N	121°27'40.43964"W	761800.165	4667289.250	4202.984	0.99994659	0.99980212	0.99974872	0°39'27.45"
IS54	43°50'14.56218"N	121°25'23.65435"W	792468.154	4677667.204	4207.767	0.99996274	0.99980187	0.99976462	0°37'53.86"
IS69	43°48'11.05519"N	121°32' 5.68964"W	780307.980	4648048.679	4225.284	0.99995592	0.99980106	0.99975699	0°42'28.92"

Hand Written Elevations are from actual Differential Levels.

1 Meter = 3.28083333... US Feet

or 1 Meter = 39.37 inches exactly

1 Meter = 3.280839895 International Feet or 1 inch = 2.54 centimeters exactly

To Calculate Elevation Factor (in the North American Continent)

Divide 20,906,000 by 20,906,000 + Ellipsoidal Elevation in feet (US or International, error introduced is negligible)

=====
 PBAX0005 MINIMALLY CONSTRAINED

GeoLab V2.4d

GRS 80

UNITS: m,DMS

Page 0001
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16:30:28, Mon May 08, 1995

INI file: C:\GEOLAB2\GEOLAB.INI

Input file: C:\GEOLAB2\BEND\PBAX0005.IOB

Output file: C:\GEOLAB2\BEND\PBAX0005.LST

Geoid File: C:\GEOLAB2\GEOID93W.GEO

PARAMETERS		OBSERVATIONS	
Description	Number	Description	Number
No. of Stations	11	Directions	0
Coord Parameters	30	Distances	0
Free Latitudes	10	Azimuths	0
Free Longitudes	10	Vertical Angles	0
Free Heights	10	Zenithal Angles	0
Fixed Coordinates	3	Angles	0
Astro. Latitudes	0	Heights	0
Astro. Longitudes	0	Height Differences	0
Geoid Records	0	Auxiliary Params.	0
All Aux. Pars.	0	2-D Coords.	0
Direction Pars.	0	2-D Coord. Diffs.	0
Scale Parameters	0	3-D Coords.	0
Constant Pars.	0	3-D Coord. Diffs.	72
Rotation Pars.	0		
Translation Pars.	0		
	-----		-----
Total Parameters	30	Total Observations	72
Degrees of Freedom =		42	

=====
 SUMMARY OF SELECTED OPTIONS

OPTION	SELECTION
Computation Mode	Adjustment
Maximum Iterations	5
Convergence Criterion	0.00100
Confidence Level for Statistics	95.000
Covariance Matrix Computation	Connected Portion Only
Residual Rejection Criterion	Tau Max
Confidence Region Types	2D Station Relative
Relative Confidence Regions	Connected Only
Variance Factor (VF) Known	Yes
CMULT (Multiply Parm Cov With VF)	Yes
RMULT (Multiply Res Cov With VF)	Yes
Force Convergence in Max Iters	No
Distances Affect 3D	No
Full Inverse Computed	No
Normals Reordered	Yes
Coordinates Generated	No
Geoid Interpolation Method	Bi-Quadratic

Adjusted NEO Coordinates:

CODE	FFF	STATION	NORTHING STD DEV	EASTING STD DEV	O-HEIGHT STD DEV	MAPPROJ
NEO	000	BAX1	240846.3990 0.0046	1422971.3481 0.0033	1273.8888 0.0079	ORS3602
SFMC		BAX1	0.99996141	0-39 18.806647	ORS3602	
NEO	000	BAX2	241711.5558 0.0033	1421399.7844 0.0030	1269.4063 0.0073	ORS3602
SFMC		BAX2	0.99996296	0-40 7.236643	ORS3602	
NEO	000	BAX3	239008.8369 0.0036	1421493.8107 0.0030	1277.2650 0.0075	ORS3602
SFMC		BAX3	0.99995807	0-40 3.392781	ORS3602	
NEO	000	BAX4	240071.3572 0.0033	1420088.4945 0.0027	1273.1865 0.0066	ORS3602
SFMC		BAX4	0.99995994	0-40 46.797052	ORS3602	
NEO	000	BAX5	237347.8829 0.0033	1419695.0348 0.0029	1280.7796 0.0069	ORS3602
SFMC		BAX5	0.99995513	0-40 57.849567	ORS3602	
NEO	000	BAX6	237885.2561 0.0036	1418769.9424 0.0033	1308.2355 0.0090	ORS3602
SFMC		BAX6	0.99995604	0-41 26.358878	ORS3602	
NEO	000	DWR2	239186.8570 0.0076	1421033.5191 0.0055	1272.8084 0.0145	ORS3602
SFMC		DWR2	0.99995838	0-40 17.546760	ORS3602	
NEO	111	IS41	244416.5575 0.0000	1420652.8604 0.0000	1303.2890 0.0000	ORS3602
SFMC		IS41	0.99996801	0-40 31.086457	ORS3602	
NEO	000	IS52	232196.6922 0.0037	1422589.7466 0.0028	1282.2773 0.0069	ORS3602
SFMC		IS52	0.99994659	0-39 27.451165	ORS3602	
NEO	000	IS54	241544.2973 0.0038	1425752.9576 0.0028	1283.7340 0.0065	ORS3602
SFMC		IS54	0.99996274	0-37 53.869545	ORS3602	
NEO	000	IS69	237837.8831 0.0028	1416725.2224 0.0026	1289.0580 0.0063	ORS3602
SFMC		IS69	0.99995592	0-42 28.921202	ORS3602	

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Adjusted PLH Coordinates:

CODE	FFF	STATION		LATITUDE STD DEV	LONGITUDE STD DEV	ELIP-HEIGHT STD DEV
PLH	000	BAX1	N 43 49	50.93841 0.0046	W121 27 27.80493 0.0033	1254.0508 0.0079
PLH	000	BAX2	N 43 50	18.38092 0.0033	W121 28 38.59377 0.0030	1249.5502 0.0073
PLH	000	BAX3	N 43 48	50.84906 0.0036	W121 28 32.97530 0.0030	1257.3873 0.0075
PLH	000	BAX4	N 43 49	24.73915 0.0033	W121 29 36.41817 0.0027	1253.2949 0.0066
PLH	000	BAX5	N 43 47	56.34747 0.0033	W121 29 52.57334 0.0029	1260.8562 0.0069
PLH	000	BAX6	N 43 48	13.39907 0.0036	W121 30 34.24464 0.0033	1288.3033 0.0090
PLH	000	DWR2	N 43 48	56.44260 0.0076	W121 28 53.66380 0.0055	1252.9234 0.0145
PLH	111	IS41	N 43 51	45.73754 0.0000	W121 29 13.45441 0.0000	1283.4493 0.0000
PLH	000	IS52	N 43 45	10.54432 0.0037	W121 27 40.44040 0.0028	1262.3937 0.0069
PLH	000	IS54	N 43 50	14.56230 0.0038	W121 25 23.65463 0.0028	1263.9590 0.0065
PLH	000	IS69	N 43 48	11.05554 0.0028	W121 32 5.69032 0.0026	1269.1064 0.0063

Adjusted PLO Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		O-HEIGHT
			STD DEV		STD DEV		STD DEV
PLO	000	BAX1	N 43 49	50.93841	W121 27	27.80493	1273.8888
				0.0046		0.0033	0.0079
PLO	000	BAX2	N 43 50	18.38092	W121 28	38.59377	1269.4063
				0.0033		0.0030	0.0073
PLO	000	BAX3	N 43 48	50.84906	W121 28	32.97530	1277.2650
				0.0036		0.0030	0.0075
PLO	000	BAX4	N 43 49	24.73915	W121 29	36.41817	1273.1865
				0.0033		0.0027	0.0066
PLO	000	BAX5	N 43 47	56.34747	W121 29	52.57334	1280.7796
				0.0033		0.0029	0.0069
PLO	000	BAX6	N 43 48	13.39907	W121 30	34.24464	1308.2355
				0.0036		0.0033	0.0090
PLO	000	DWR2	N 43 48	56.44260	W121 28	53.66380	1272.8084
				0.0076		0.0055	0.0145
PLO	111	IS41	N 43 51	45.73754	W121 29	13.45441	1303.2890
				0.0000		0.0000	0.0000
PLO	000	IS52	N 43 45	10.54432	W121 27	40.44040	1282.2773
				0.0037		0.0028	0.0069
PLO	000	IS54	N 43 50	14.56230	W121 25	23.65463	1283.7340
				0.0038		0.0028	0.0065
PLO	000	IS69	N 43 48	11.05554	W121 32	5.69032	1289.0580
				0.0028		0.0026	0.0063

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Geoid Values:

CODE	NAME	N/S DEFLECTION			E/W DEFLECTION			UNDULATION
GEOI	BAX1	- 0 0	1.0	- 0 0	2.8	-19.8380		
GEOI	BAX2	- 0 0	1.7	- 0 0	1.9	-19.8561		
GEOI	BAX3	- 0 0	1.6	- 0 0	2.4	-19.8777		
GEOI	BAX4	- 0 0	2.1	- 0 0	2.0	-19.8916		
GEOI	BAX5	- 0 0	1.8	- 0 0	2.4	-19.9234		
GEOI	BAX6	- 0 0	2.0	- 0 0	2.2	-19.9322		
GEOI	DWR2	- 0 0	1.7	- 0 0	2.3	-19.8850		
GEOI	IS41	- 0 0	2.0	- 0 0	1.2	-19.8397		
GEOI	IS52	- 0 0	1.0	- 0 0	4.4	-19.8836		
GEOI	IS54	- 0 0	0.0	- 0 0	3.5	-19.7750		
GEOI	IS69	- 0 0	2.2	- 0 0	1.5	-19.9516		

Residuals (critical value = 3.373, N,E,Up for 3D):

TYPE AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
GROUP: 00020794.SSF,obs#:					
DXCT	BAX2	1 day 122 BAX1	OPT 122 2 8:30 1041.25750	-0.0202	-1.2177
			0.0186	0.0166	11.25
DYCT	BAX2	BAX1	-1328.91960	-0.0191	-1.5528
			0.0127	0.0123	10.64
DZCT	BAX2	BAX1	-607.96090	0.0201	1.7382
			0.0121	0.0116	11.23
GROUP: 00020830.SSF,obs#:					
DXCT	BAX3	2 day 122 BAX1	OPT 122 D 16:2 1914.10430	0.0044	0.4482
			0.0126	0.0098	1.87
DYCT	BAX3	BAX1	337.23820	-0.0105	-2.2928
			0.0050	0.0046	4.46
DZCT	BAX3	BAX1	1335.99800	0.0061	1.1782
			0.0063	0.0052	2.59
GROUP: 00020884.SSF,obs#:					
DXCT	BAX4	3 day 123 BAX2	OPT 123 8 12:1 1702.30880	-0.0065	-1.2234
			0.0076	0.0053	3.10
DYCT	BAX4	BAX2	305.34530	-0.0039	-1.4412
			0.0036	0.0027	1.84
DZCT	BAX4	BAX2	1191.95600	0.0006	0.3605
			0.0025	0.0017	0.29
GROUP: 00020890.SSF,obs#:					
DXCT	BAX4	4 day 123 BAX3	OPT 123 9 12:4 829.44540	-0.0033	-0.5152
			0.0086	0.0064	1.86
DYCT	BAX4	BAX3	-1360.82730	-0.0060	-1.9800
			0.0036	0.0030	3.42
DZCT	BAX4	BAX3	-752.02100	0.0118	3.0650
			0.0045	0.0039	6.71
GROUP: 00020824.SSF,obs#:					
DXCT	BAX5	5 day 122 BAX3	OPT 122 C 15:3 2127.08130	0.0025	0.4076
			0.0080	0.0060	1.01
DYCT	BAX5	BAX3	65.83750	0.0045	1.7385
			0.0029	0.0026	1.82
DZCT	BAX5	BAX3	1211.78750	-0.0072	-14.5741
			0.0016	0.0005	2.95
GROUP: 00020872.SSF,obs#:					
DXCT	BAX5	6 day 123 BAX6	OPT 123 6 11:1 -614.33910	-0.0023	-0.2715
			0.0113	0.0086	2.19
DYCT	BAX5	BAX6	780.60830	0.0058	1.3097
			0.0042	0.0044	5.40
DZCT	BAX5	BAX6	398.91070	-0.0034	-1.0202
			0.0035	0.0033	3.14
GROUP: 00020878.SSF,obs#:					
DXCT	BAX6	7 day 123 BAX4	OPT 123 7 11:4 1911.98570	-0.0093	-0.6512
			0.0162	0.0143	3.65
DYCT	BAX6	BAX4	646.07050	0.0029	0.5925
			0.0048	0.0049	1.13
DZCT	BAX6	BAX4	1564.90510	-0.0081	-0.9569
			0.0085	0.0085	3.17
GROUP: 00020788.SSF,obs#:					
DXCT	IS41	8 day 122 BAX1	OPT 122 1 7:53 742.49120	-0.0032	-0.2962
			0.0130	0.0107	0.74
DYCT	IS41	BAX1	-3307.99840	0.0056	2.6594
			0.0020	0.0021	1.31
DZCT	IS41	BAX1	-2576.15630	0.0010	0.1733
			0.0050	0.0057	0.23
GROUP: 00020746.SSF,obs#:					
DXCT	IS41	9 day 121 BAX2	OPT 121 1 11:5 -298.74210	0.0057	0.4223
			0.0149	0.0134	2.01
DYCT	IS41	BAX2	-1979.07680	0.0051	0.6056
			0.0089	0.0084	1.81

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Residuals (critical value = 3.373, N,E,Up for 3D):

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DZCT		IS41	BAX2	-1968.19340 0.0020	-0.0102 0.0001	-195.713 3.63
GROUP: 00020752.SSF,obs#: 10 day 121				OPT 121 2 12:4		
DXCT		IS41	BAX4	-2001.02640 0.0115	-0.0008 0.0099	-0.0845 0.19
DYCT		IS41	BAX4	-2284.41670 0.0048	-0.0091 0.0042	-2.1791 2.08
DZCT		IS41	BAX4	-3160.14810 0.0037	0.0008 0.0033	0.2553 0.19
GROUP: 00020758.SSF,obs#: 11 day 121				OPT 121 3 14:3		
DXCT		IS41	BAX6	-3913.02220 0.0162	0.0043 0.0141	0.3069 0.64
DYCT		IS41	BAX6	-2930.48110 0.0023	-0.0002 0.0022	-0.0971 0.03
DZCT		IS41	BAX6	-4725.04740 0.0062	0.0049 0.0062	0.7887 0.72
GROUP: 00020740.SSF,obs#: 12 day 121				OPT 121 0 10:3		
DXCT		IS41	IS54	3369.16160 0.0079	-0.0073 0.0050	-1.4520 1.24
DYCT		IS41	IS54	-4330.25770 0.0017	0.0019 0.0013	1.4913 0.32
DZCT		IS41	IS54	-2043.24610 0.0049	0.0115 0.0037	3.0704 1.96
GROUP: 00020842.SSF,obs#: 13 day 123				OPT 123 1 9:12		
DXCT		IS52	BAX3	1456.24280 0.0086	-0.0011 0.0065	-0.1716 0.16
DYCT		IS52	BAX3	4629.99600 0.0016	-0.0012 0.0015	-0.7952 0.18
DZCT		IS52	BAX3	4906.35400 0.0033	-0.0002 0.0025	-0.0622 0.02
GROUP: 00020854.SSF,obs#: 14 day 123				OPT 123 3 9:47		
DXCT		IS52	BAX5	-670.85000 0.0067	-0.0026 0.0047	-0.5494 0.44
DYCT		IS52	BAX5	4564.15760 0.0029	0.0037 0.0025	1.4971 0.62
DZCT		IS52	BAX5	3694.57160 0.0038	-0.0013 0.0032	-0.4277 0.23
GROUP: 00020848.SSF,obs#: 15 day 123				OPT 123 2 9:28		
DXCT		IS52	DWR2	1125.94620 0.0173	0.0051 0.0122	0.4173 0.71
DYCT		IS52	DWR2	4976.16700 0.0053	0.0005 0.0057	0.0859 0.07
DZCT		IS52	DWR2	5027.86410 0.0093	-0.0141 0.0083	-1.6930 1.97
GROUP: 00020836.SSF,obs#: 16 day 123				OPT 123 0 8:43		
DXCT		IS52	IS54	5996.99570 0.0079	0.0033 0.0050	0.6601 0.34
DYCT		IS52	IS54	3944.96510 0.0012	-0.0019 0.0013	-1.4689 0.19
DZCT		IS52	IS54	6775.27540 0.0026	-0.0069 0.0011	-6.2427 0.70
GROUP: 00020860.SSF,obs#: 17 day 123				OPT 123 4 10:1		
DXCT		IS52	IS69	-3046.90690 0.0110	-0.0017 0.0096	-0.1766 0.21
DYCT		IS52	IS69	6382.81370 0.0040	-0.0032 0.0038	-0.8609 0.40
DZCT		IS52	IS69	4027.96420 0.0020	0.0182 0.0028	6.5195 2.24
GROUP: 00020800.SSF,obs#: 18 day 122				OPT 122 3 9:2		

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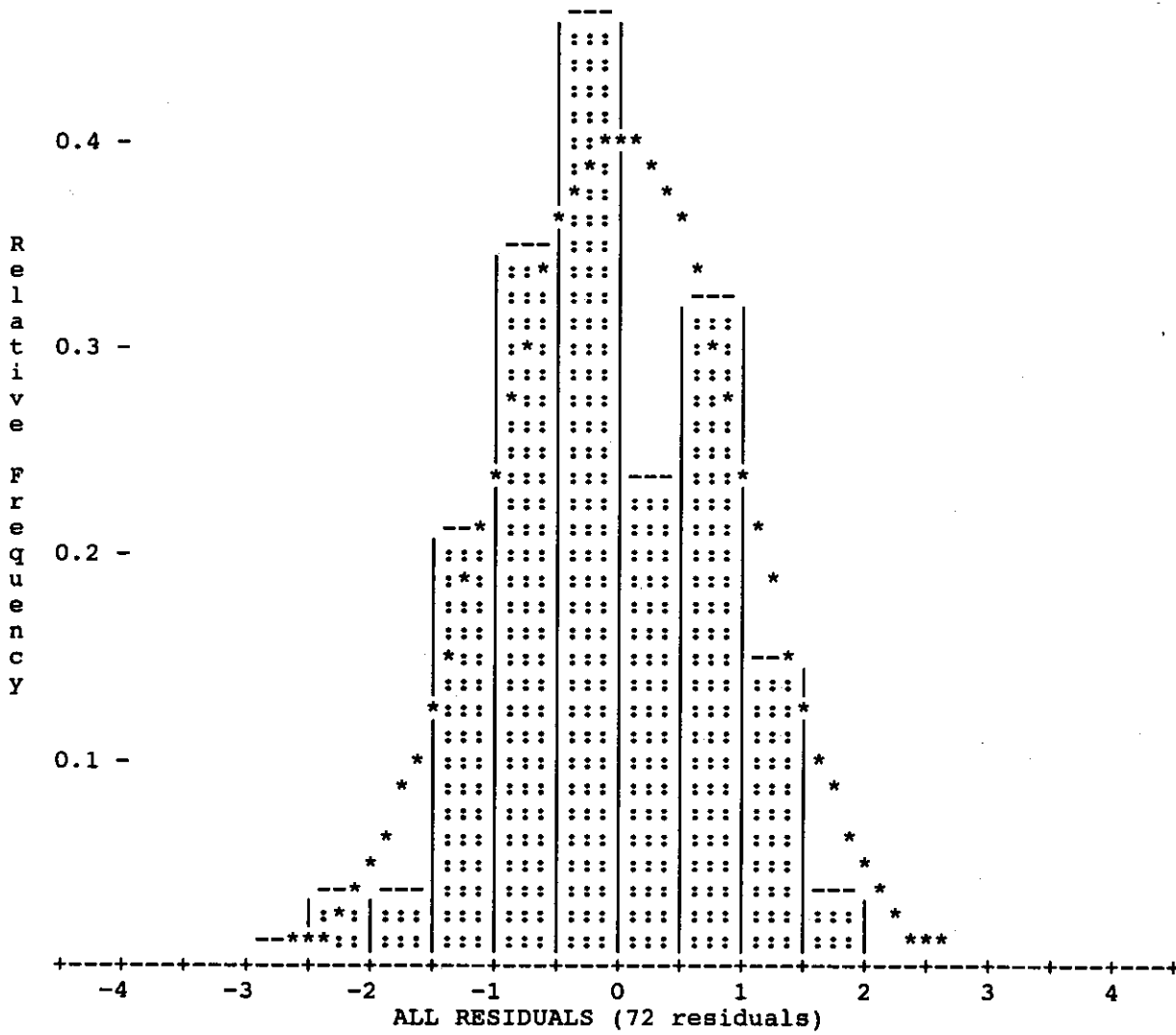
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Residuals (critical value = 3.373, N,E,Up for 3D):

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DXCT		IS54	BAX1	-2626.66170 0.0192	0.0003 0.0172	0.0156 0.09
DYCT		IS54	BAX1	1022.26890 0.0023	0.0013 0.0024	0.5217 0.44
DZCT		IS54	BAX1	-532.91710 0.0095	0.0034 0.0087	0.3971 1.20
GROUP: 00020818.SSF,obs#: 21 day 122				OPT 122 6 11:1		
DXCT		IS54	DWR2	-4871.03590 0.0182	-0.0028 0.0134	-0.2080 0.53
DYCT		IS54	DWR2	1031.21340 0.0090	-0.0032 0.0084	-0.3802 0.60
DZCT		IS54	DWR2	-1747.42120 0.0040	0.0119 0.0052	2.3066 2.25
GROUP: 00020770.SSF,obs#: 22 day 121				OPT 121 5 16:1		
DXCT		IS69	BAX2	5376.02790 0.0078	0.0015 0.0056	0.2642 0.24
DYCT		IS69	BAX2	-86.62870 0.0027	0.0001 0.0017	0.0768 0.02
DZCT		IS69	BAX2	2822.34030 0.0040	0.0044 0.0032	1.3897 0.73
GROUP: 00020776.SSF,obs#: 23 day 121				OPT 121 6 16:4		
DXCT		IS69	BAX4	3673.72940 0.0079	-0.0028 0.0063	-0.4487 0.70
DYCT		IS69	BAX4	-391.97390 0.0033	-0.0047 0.0033	-1.4263 1.17
DZCT		IS69	BAX4	1630.39400 0.0032	0.0011 0.0028	0.3805 0.26
GROUP: 00020866.SSF,obs#: 24 day 123				OPT 123 5 10:4		
DXCT		IS69	BAX5	2376.06960 0.0055	0.0008 0.0034	0.2364 0.27
DYCT		IS69	BAX5	-1818.64920 0.0013	-0.0003 0.0011	-0.2874 0.11
DZCT		IS69	BAX5	-333.40690 0.0010	-0.0006 0.0005	-1.3284 0.21
GROUP: 00020782.SSF,obs#: 25 day 121				OPT 121 0 17:1		
DXCT		IS69	BAX6	1761.74240 0.0220	-0.0040 0.0208	-0.1928 1.96
DYCT		IS69	BAX6	-1038.02370 0.0136	0.0043 0.0135	0.3207 2.11
DZCT		IS69	BAX6	65.48720 0.0088	0.0226 0.0088	2.5743 11.03
GROUP: 00020764.SSF,obs#: 26 day 121				OPT 121 4 15:4		
DXCT		IS69	IS41	5674.75560 0.0108	-0.0007 0.0093	-0.0704 0.09
DYCT		IS69	IS41	1892.44020 0.0053	0.0032 0.0050	0.6441 0.42
DZCT		IS69	IS41	4790.54250 0.0042	-0.0017 0.0038	-0.4584 0.23



S T A T I S T I C S S U M M A R Y

Residual Critical Value Type	Tau Max
Residual Critical Value	3.3726
Number of Flagged Residuals	4
Convergence Criterion	0.0010
Final Iteration Counter Value	2
Confidence Level Used	95.0000
Estimated Variance Factor	12.8344
Number of Degrees of Freedom	42

Chi-Square Test on the Variance Factor:

8.7257e+00 < 1.0000 < 2.0733e+01 ?

***** THE TEST FAILS *****

NOTE: All confidence regions were computed using the following factors:

Variance factor used	=	12.8344
2-D expansion factor	=	2.4477

Note that, for relative confidence regions, precisions are computed from the ratio of the major semi-axis and the spatial distance between the two stations.

2-D and 1-D Station Confidence Regions (95.000 percent):

STATION	MAJOR SEMI-AXIS	AZ	MINOR SEMI-AXIS	VERTICAL
BAX1	0.0118	20	0.0076	0.0156
BAX2	0.0092	38	0.0061	0.0144
BAX3	0.0092	25	0.0069	0.0146
BAX4	0.0085	30	0.0059	0.0130
BAX5	0.0085	29	0.0066	0.0135
BAX6	0.0095	35	0.0073	0.0177
DWR2	0.0187	11	0.0131	0.0284
IS52	0.0091	15	0.0067	0.0136
IS54	0.0096	18	0.0065	0.0128
IS69	0.0073	37	0.0060	0.0124

2-D and 1-D Relative Station Confidence Regions (95.000 percent):							
FROM	TO	MAJ-SEMI	AZ	MIN-SEMI	VERTICAL	DISTANCE	PPM
BAX1	BAX2	0.0129	30	0.0085	0.0181	1794.3898	7.18
BAX1	BAX3	0.0110	25	0.0087	0.0172	2358.4743	4.64
BAX1	IS41	0.0118	20	0.0076	0.0156	4258.0250	2.77
BAX1	IS54	0.0127	19	0.0087	0.0180	2868.5150	4.41
BAX2	BAX4	0.0080	34	0.0051	0.0121	2100.4329	3.83
BAX2	IS41	0.0092	38	0.0061	0.0144	2807.0902	3.29
BAX2	IS69	0.0074	42	0.0060	0.0120	6072.4623	1.21
BAX3	BAX4	0.0085	20	0.0060	0.0124	1762.2020	4.83
BAX3	BAX5	0.0066	17	0.0058	0.0117	2448.9309	2.69
BAX3	IS52	0.0075	2	0.0057	0.0124	6901.4349	1.08
BAX4	BAX6	0.0096	32	0.0070	0.0165	2553.8190	3.74
BAX4	IS41	0.0085	30	0.0059	0.0130	4382.8323	1.94
BAX4	IS69	0.0066	23	0.0055	0.0102	4038.3253	1.64
BAX5	BAX6	0.0092	35	0.0069	0.0158	1070.4570	8.59
BAX5	IS52	0.0072	171	0.0047	0.0102	5910.2780	1.21
BAX5	IS69	0.0061	28	0.0051	0.0090	3010.7058	2.03
BAX6	IS41	0.0095	35	0.0073	0.0177	6798.9322	1.39
BAX6	IS69	0.0082	40	0.0066	0.0159	2045.8582	4.01
DWR2	IS52	0.0172	7	0.0118	0.0268	7163.0636	2.40
DWR2	IS54	0.0174	14	0.0124	0.0266	5276.7334	3.30
IS41	IS54	0.0096	18	0.0065	0.0128	5854.6816	1.63
IS41	IS69	0.0073	37	0.0060	0.0124	7663.7781	0.95
IS52	IS54	0.0086	19	0.0062	0.0131	9870.7201	0.87
IS52	IS69	0.0078	178	0.0058	0.0110	8139.3162	0.96

16:30:42, Mon May 08, 1995

17:13:46, Mon May 08, 1995

INI file: C:\GEOLAB2\GEOLAB.INI
 Input file: C:\GEOLAB2\BEND\PBAX5-F.IOB
 Output file: C:\GEOLAB2\BEND\PBAX5-F.LST

Geoid File: C:\GEOLAB2\GEOID93W.GEO

PARAMETERS		OBSERVATIONS	
Description	Number	Description	Number
No. of Stations	11	Directions	0
Coord Parameters	21	Distances	0
Free Latitudes	7	Azimuths	0
Free Longitudes	7	Vertical Angles	0
Free Heights	7	Zenithal Angles	0
Fixed Coordinates	12	Angles	0
Astro. Latitudes	0	Heights	0
Astro. Longitudes	0	Height Differences	0
Geoid Records	0	Auxiliary Params.	0
All Aux. Pars.	4	2-D Coords.	0
Direction Pars.	0	2-D Coord. Diffs.	0
Scale Parameters	1	3-D Coords.	0
Constant Pars.	0	3-D Coord. Diffs.	72
Rotation Pars.	3		
Translation Pars.	0		
-----		-----	
Total Parameters	25	Total Observations	72
Degrees of Freedom =		47	

SUMMARY OF SELECTED OPTIONS

OPTION	SELECTION
Computation Mode	Adjustment
Maximum Iterations	5
Convergence Criterion	0.00100
Confidence Level for Statistics	95.000
Covariance Matrix Computation	Connected Portion Only
Residual Rejection Criterion	Tau Max
Confidence Region Types	2D Station Relative
Relative Confidence Regions	Connected Only
Variance Factor (VF) Known	Yes
CMULT (Multiply Parm Cov With VF)	Yes
RMULT (Multiply Res Cov With VF)	Yes
Force Convergence in Max Iters	No
Distances Affect 3D	No
Full Inverse Computed	No
Normals Reordered	Yes
Coordinates Generated	No
Geoid Interpolation Method	Bi-Quadratic

Adjusted PLH Coordinates:

CODE	FFF	STATION	LATITUDE		LONGITUDE		ELIP-HEIGHT	
			STD DEV		STD DEV		STD DEV	
PLH	000	BAX1	N 43 49	50.93840	W121 27	27.80467	1252.8337	
				0.0058		0.0044	0.0106	
PLH	000	BAX2	N 43 50	18.38087	W121 28	38.59354	1248.3383	
				0.0037		0.0036	0.0088	
PLH	000	BAX3	N 43 48	50.84894	W121 28	32.97493	1256.1784	
				0.0036		0.0031	0.0079	
PLH	000	BAX4	N 43 49	24.73901	W121 29	36.41783	1252.0874	
				0.0034		0.0028	0.0068	
PLH	000	BAX5	N 43 47	56.34724	W121 29	52.57281	1259.6553	
				0.0028		0.0024	0.0055	
PLH	000	BAX6	N 43 48	13.39888	W121 30	34.24413	1287.0991	
				0.0041		0.0038	0.0106	
PLH	000	DWR2	N 43 48	56.44228	W121 28	53.66341	1251.7242	
				0.0094		0.0067	0.0183	
PLH	111	IS41	N 43 51	45.73754	W121 29	13.45441	1282.2243	
				0.0000		0.0000	0.0000	
PLH	111	IS52	N 43 45	10.54426	W121 27	40.43964	1261.1884	
				0.0000		0.0000	0.0000	
PLH	111	IS54	N 43 50	14.56218	W121 25	23.65435	1262.7550	
				0.0000		0.0000	0.0000	
PLH	111	IS69	N 43 48	11.05519	W121 32	5.68964	1267.9174	
				0.0000		0.0000	0.0000	

Adjusted PLO Coordinates:

CODE	FFF	STATION		LATITUDE STD DEV	LONGITUDE STD DEV	O-HEIGHT STD DEV
PLO	000	BAX1	N 43 49	50.93840 0.0058	W121 27 27.80467 0.0044	1272.6717 0.0106
PLO	000	BAX2	N 43 50	18.38087 0.0037	W121 28 38.59354 0.0036	1268.1944 0.0088
PLO	000	BAX3	N 43 48	50.84894 0.0036	W121 28 32.97493 0.0031	1276.0561 0.0079
PLO	000	BAX4	N 43 49	24.73901 0.0034	W121 29 36.41783 0.0028	1271.9790 0.0068
PLO	000	BAX5	N 43 47	56.34724 0.0028	W121 29 52.57281 0.0024	1279.5787 0.0055
PLO	000	BAX6	N 43 48	13.39888 0.0041	W121 30 34.24413 0.0038	1307.0313 0.0106
PLO	000	DWR2	N 43 48	56.44228 0.0094	W121 28 53.66341 0.0067	1271.6092 0.0183
PLO	111	IS41	N 43 51	45.73754 0.0000	W121 29 13.45441 0.0000	1302.0640 0.0000
PLO	111	IS52	N 43 45	10.54426 0.0000	W121 27 40.43964 0.0000	1281.0720 0.0000
PLO	111	IS54	N 43 50	14.56218 0.0000	W121 25 23.65435 0.0000	1282.5300 0.0000
PLO	111	IS69	N 43 48	11.05519 0.0000	W121 32 5.68964 0.0000	1287.8690 0.0000

Adjusted Auxiliary Parameters:

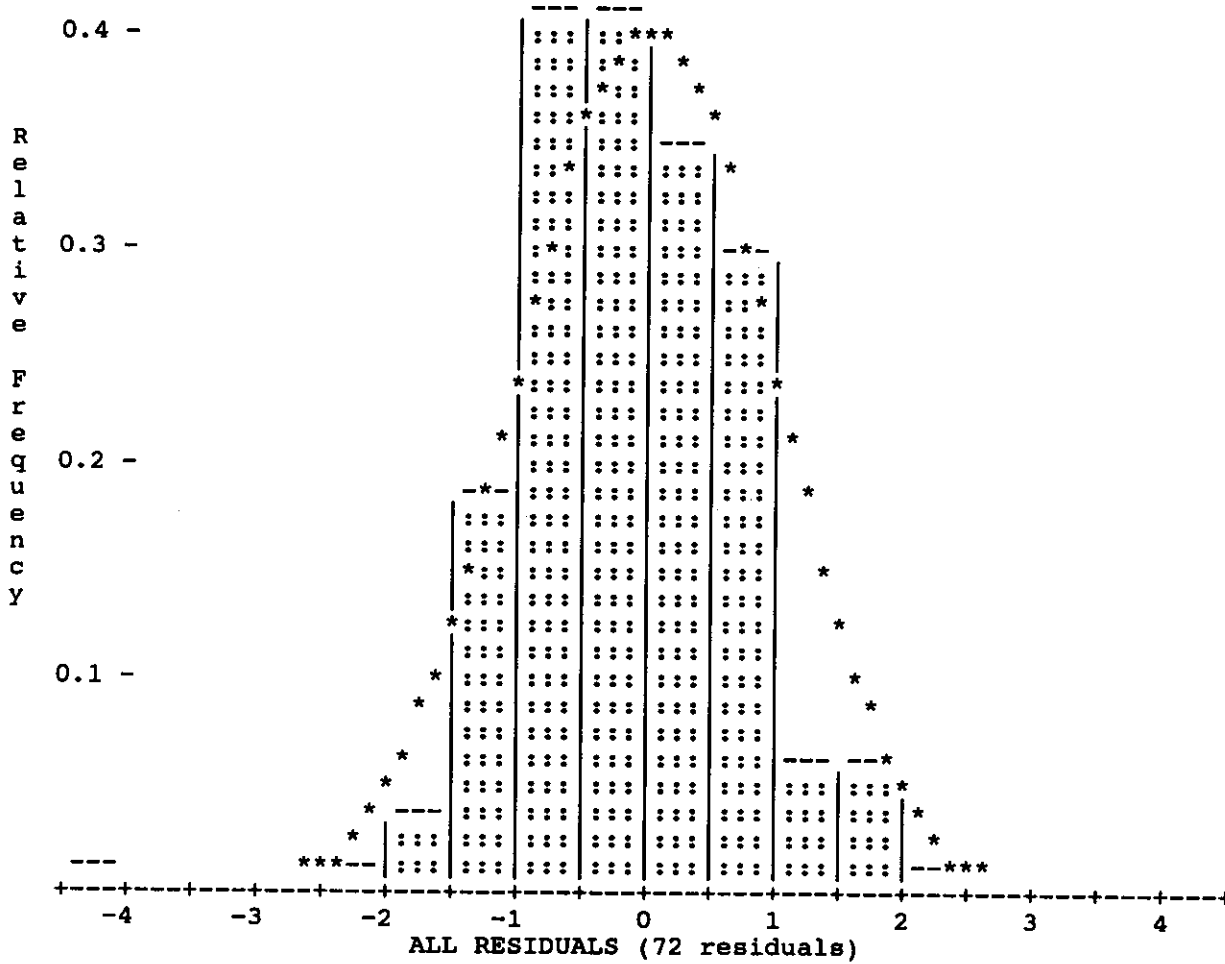
CODE	NAME	TYPE	VALUE	STD DEV
AUXO	WGSXXX	SCAL	-0.3309	0.0600
AUXO	WGSXXX	ROTX	0.1781	0.0293
AUXO	WGSXXX	ROTY	-0.2212	0.0317
AUXO	WGSXXX	ROTZ	-0.5214	0.0318

Residuals (critical value = 3.394, N,E,Up for 3D):

TYPE AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
GROUP: 00020794.SSF,obs#:		1 day 122	OPT 122 2 8:30		
DXCT	BAX2	BAX1	1041.25750	-0.0215	-0.9470
			0.0254	0.0227	12.00
DYCT	BAX2	BAX1	-1328.91960	-0.0195	-1.1544
			0.0173	0.0169	10.87
DZCT	BAX2	BAX1	-607.96090	0.0173	1.0863
			0.0166	0.0159	9.62
GROUP: 00020830.SSF,obs#:		2 day 122	OPT 122 D 16:2		
DXCT	BAX3	BAX1	1914.10430	0.0060	0.4456
			0.0172	0.0135	2.55
DYCT	BAX3	BAX1	337.23820	-0.0102	-1.5913
			0.0069	0.0064	4.32
DZCT	BAX3	BAX1	1335.99800	0.0034	0.4760
			0.0086	0.0072	1.44
GROUP: 00020884.SSF,obs#:		3 day 123	OPT 123 8 12:1		
DXCT	BAX4	BAX2	1702.30880	-0.0054	-0.7443
			0.0104	0.0073	2.58
DYCT	BAX4	BAX2	305.34530	-0.0036	-0.9813
			0.0050	0.0037	1.71
DZCT	BAX4	BAX2	1191.95600	0.0012	0.5174
			0.0034	0.0023	0.56
GROUP: 00020890.SSF,obs#:		4 day 123	OPT 123 9 12:4		
DXCT	BAX4	BAX3	829.44540	-0.0051	-0.5851
			0.0117	0.0088	2.92
DYCT	BAX4	BAX3	-1360.82730	-0.0065	-1.5285
			0.0049	0.0042	3.68
DZCT	BAX4	BAX3	-752.02100	0.0122	2.2833
			0.0061	0.0053	6.93
GROUP: 00020824.SSF,obs#:		5 day 122	OPT 122 C 15:3		
DXCT	BAX5	BAX3	2127.08130	0.0032	0.3876
			0.0110	0.0083	1.31
DYCT	BAX5	BAX3	65.83750	0.0037	1.0509
			0.0039	0.0035	1.50
DZCT	BAX5	BAX3	1211.78750	-0.0093	-18.8887
			0.0021	0.0005	3.78
GROUP: 00020872.SSF,obs#:		6 day 123	OPT 123 6 11:1		
DXCT	BAX5	BAX6	-614.33910	0.0001	0.0086
			0.0154	0.0119	0.10
DYCT	BAX5	BAX6	780.60830	0.0059	0.9664
			0.0057	0.0061	5.50
DZCT	BAX5	BAX6	398.91070	-0.0081	-1.7533
			0.0048	0.0046	7.54
GROUP: 00020878.SSF,obs#:		7 day 123	OPT 123 7 11:4		
DXCT	BAX6	BAX4	1911.98570	-0.0091	-0.4682
			0.0221	0.0195	3.58
DYCT	BAX6	BAX4	646.07050	0.0025	0.3706
			0.0066	0.0067	0.97
DZCT	BAX6	BAX4	1564.90510	-0.0058	-0.5015
			0.0117	0.0115	2.27
GROUP: 00020788.SSF,obs#:		8 day 122	OPT 122 1 7:53		
DXCT	IS41	BAX1	742.49120	-0.0075	-0.5081
			0.0178	0.0148	1.77
DYCT	IS41	BAX1	-3307.99840	0.0068	2.5437
			0.0027	0.0027	1.59
DZCT	IS41	BAX1	-2576.15630	0.0093	1.2026
			0.0068	0.0078	2.19
GROUP: 00020746.SSF,obs#:		9 day 121	OPT 121 1 11:5		
DXCT	IS41	BAX2	-298.74210	0.0026	0.1414
			0.0203	0.0187	0.94
DYCT	IS41	BAX2	-1979.07680	0.0067	0.5717
			0.0122	0.0117	2.38

Residuals (critical value = 3.394, N,E,Up for 3D):

TYPE	AT	FROM	TO	OBSERVATION STD DEV	RESIDUAL STD DEV	STD RES PPM
DXCT		IS54	BAX1	-2626.66170 0.0262	0.0074 0.0240	0.3079 2.57
DYCT		IS54	BAX1	1022.26890 0.0032	-0.0006 0.0031	-0.1845 0.20
DZCT		IS54	BAX1	-532.91710 0.0130	-0.0166 0.0123	-1.3432 5.77
GROUP: 00020818.SSF,obs#: 21 day 122				OPT 122 6 11:1		
DXCT		IS54	DWR2	-4871.03590 0.0249	-0.0025 0.0185	-0.1373 0.48
DYCT		IS54	DWR2	1031.21340 0.0123	-0.0050 0.0116	-0.4323 0.95
DZCT		IS54	DWR2	-1747.42120 0.0055	0.0036 0.0071	0.5037 0.67
GROUP: 00020770.SSF,obs#: 22 day 121				OPT 121 5 16:1		
DXCT		IS69	BAX2	5376.02790 0.0106	0.0046 0.0078	0.5843 0.75
DYCT		IS69	BAX2	-86.62870 0.0037	-0.0036 0.0021	-1.7556 0.59
DZCT		IS69	BAX2	2822.34030 0.0054	-0.0035 0.0046	-0.7563 0.57
GROUP: 00020776.SSF,obs#: 23 day 121				OPT 121 6 16:4		
DXCT		IS69	BAX4	3673.72940 0.0108	-0.0008 0.0088	-0.0904 0.20
DYCT		IS69	BAX4	-391.97390 0.0045	-0.0087 0.0046	-1.8825 2.16
DZCT		IS69	BAX4	1630.39400 0.0044	-0.0074 0.0040	-1.8457 1.83
GROUP: 00020866.SSF,obs#: 24 day 123				OPT 123 5 10:4		
DXCT		IS69	BAX5	2376.06960 0.0075	0.0002 0.0050	0.0409 0.07
DYCT		IS69	BAX5	-1818.64920 0.0017	-0.0040 0.0018	-2.1784 1.33
DZCT		IS69	BAX5	-333.40690 0.0014	-0.0067 0.0003	-19.4042 2.22
GROUP: 00020782.SSF,obs#: 25 day 121				OPT 121 0 17:1		
DXCT		IS69	BAX6	1761.74240 0.0301	-0.0022 0.0285	-0.0758 1.06
DYCT		IS69	BAX6	-1038.02370 0.0186	0.0007 0.0184	0.0391 0.35
DZCT		IS69	BAX6	65.48720 0.0121	0.0118 0.0121	0.9799 5.77
GROUP: 00020764.SSF,obs#: 26 day 121				OPT 121 4 15:4		
DXCT		IS69	IS41	5674.75560 0.0148	0.0055 0.0137	0.3979 0.71
DYCT		IS69	IS41	1892.44020 0.0072	-0.0022 0.0072	-0.2994 0.28
DZCT		IS69	IS41	4790.54250 0.0058	-0.0209 0.0057	-3.6730 2.73



S T A T I S T I C S S U M M A R Y

Residual Critical Value Type	Tau Max
Residual Critical Value	3.3940
Number of Flagged Residuals	6
Convergence Criterion	0.0010
Final Iteration Counter Value	2
Confidence Level Used	95.0000
Estimated Variance Factor	23.9390
Number of Degrees of Freedom	47

Chi-Square Test on the Variance Factor:

1.6590e+01 < 1.0000 < 3.7559e+01 ?

***** THE TEST FAILS *****

NOTE: All confidence regions were computed using the following factors:

Variance factor used	=	23.9390
2-D expansion factor	=	2.4477

Note that, for relative confidence regions, precisions are computed from the ratio of the major semi-axis and the spatial distance between the two stations.

2-D and 1-D Station Confidence Regions (95.000 percent):

STATION	MAJOR SEMI-AXIS	AZ	MINOR SEMI-AXIS	VERTICAL
BAX1	0.0147	21	0.0100	0.0207
BAX2	0.0103	42	0.0073	0.0172
BAX3	0.0089	18	0.0073	0.0155
BAX4	0.0088	24	0.0065	0.0132
BAX5	0.0069	7	0.0057	0.0107
BAX6	0.0108	37	0.0084	0.0208
DWR2	0.0231	10	0.0160	0.0359

2-D and 1-D Relative Station Confidence Regions (95.000 percent):

FROM	TO	MAJ-SEMI	AZ	MIN-SEMI	VERTICAL	DISTANCE	PPM
BAX1	BAX2	0.0170	28	0.0113	0.0241	1794.3895	9.46
BAX1	BAX3	0.0146	23	0.0114	0.0227	2358.4750	6.20
BAX1	IS41	0.0147	21	0.0100	0.0207	4258.0278	3.46
BAX1	IS54	0.0147	21	0.0100	0.0207	2868.5141	5.13
BAX2	BAX4	0.0111	35	0.0069	0.0169	2100.4333	5.27
BAX2	IS41	0.0103	42	0.0073	0.0172	2807.0924	3.67
BAX2	IS69	0.0103	42	0.0073	0.0172	6072.4594	1.69
BAX3	BAX4	0.0110	21	0.0079	0.0164	1762.2022	6.21
BAX3	BAX5	0.0090	21	0.0078	0.0160	2448.9300	3.69
BAX3	IS52	0.0089	18	0.0073	0.0155	6901.4329	1.29
BAX4	BAX6	0.0132	33	0.0096	0.0229	2553.8180	5.18
BAX4	IS41	0.0088	24	0.0065	0.0132	4382.8347	2.00
BAX4	IS69	0.0088	24	0.0065	0.0132	4038.3219	2.17
BAX5	BAX6	0.0121	36	0.0093	0.0214	1070.4576	11.32
BAX5	IS52	0.0069	7	0.0057	0.0107	5910.2749	1.17
BAX5	IS69	0.0069	7	0.0057	0.0107	3010.7012	2.30
BAX6	IS41	0.0108	37	0.0084	0.0208	6798.9336	1.59
BAX6	IS69	0.0108	37	0.0084	0.0208	2045.8539	5.29
DWR2	IS52	0.0231	10	0.0160	0.0359	7163.0563	3.23
DWR2	IS54	0.0231	10	0.0160	0.0359	5276.7332	4.38

17:14:03, Mon May 08, 1995

Closure Log

New Closure

From: OBAX2

To: OBAX1 Iono free fixed 5/2/95 15:19:00 00020794.SSF
Slope (m): 1794.397 43°50'18.38054" N 17401222.DAT
Total (m): 1794.397 121°28'38.59307" W 17091222.DAT
1248.8044 m

To: OBAX3 Iono free fixed 5/2/95 23:02:00 00020830.SSF
Slope (m): 2358.477 43°48'50.84947" N 1709122D.DAT
Total (m): 4152.874 121°28'32.97421" W 1740122D.DAT
1256.6274 m

To: OBAX5 Iono free fixed 5/2/95 22:35:45 00020824.SSF
Slope (m): 2448.926 43°47'56.34795" N 1740122C.DAT
Total (m): 6601.800 121°29'52.57206" W 1709122C.DAT
1260.0891 m

To: OBAX6 Iono free fixed 5/3/95 18:10:15 00020872.SSF
Slope (m): 1070.463 43°48'13.39962" N 17401236.DAT
Total (m): 7672.264 121°30'34.24363" W 17091236.DAT
1287.5395 m

To: OBAX4 Iono free fixed 5/3/95 18:42:15 00020878.SSF
Slope (m): 2553.825 43°49'24.74001" N 17091237.DAT
Total (m): 10226.089 121°29'36.41728" W 17401237.DAT
1252.5393 m

To: OBAX2 Iono free fixed 5/3/95 19:11:00 00020884.SSF
Slope (m): 2100.440 43°50'18.38200" N 17401238.DAT
Total (m): 12326.530 121°28'38.59270" W 17091238.DAT
1248.7940 m

Closed

Precision (ppm): 3.8175
Errors (m) X: 0.0272 Y: 0.0288 Z: 0.0254

New Closure

From: OBAX2

To: GIS41 Iono free fixed 5/1/95 18:33:00 00020746.SSF
Slope (m): 2807.094 43°51'45.73754" N 17401211.DAT
Total (m): 2807.094 121°29'13.45441" W 17091211.DAT
1282.6930 m

To: GIS54 Iono free fixed 5/1/95 17:33:15 00020740.SSF
Slope (m): 5854.676 43°50'14.56253" N 17401210.DAT
Total (m): 8661.771 121°25'23.65469" W 17091210.DAT
1263.1913 m

To: OBAX1 Iono free fixed 5/2/95 15:47:00 00020800.SSF
Slope (m): 2868.516 43°49'50.93863" N 17401223.DAT
Total (m): 11530.287 121°27'27.80506" W 17091223.DAT
1253.2796 m

To: OBAX2 Iono free fixed 5/2/95 15:19:00 00020794.SSF
Slope (m): 1794.397 43°50'18.38048" N 17401222.DAT
Total (m): 13324.684 121°28'38.59476" W 17091222.DAT

1248.7992 m

Closed

Precision (ppm): 1.4527
Errors (m) X: -0.0155 Y: 0.0076 Z: -0.0088

New Closure

From: GIS54

To: OBAX1 Iono free fixed 5/2/95 15:47:00 00020800.SSF
Slope (m): 2868.516 43°49'50.93828" N 17401223.DAT
Total (m): 2868.516 121°27'27.80472" W 17091223.DAT
1253.3054 m

To: OBAX3 Iono free fixed 5/2/95 23:02:00 00020830.SSF
Slope (m): 2358.477 43°48'50.84906" N 1709122D.DAT
Total (m): 5226.994 121°28'32.97557" W 1740122D.DAT
1256.6480 m

To: GIS52 Iono free fixed 5/3/95 16:12:00 00020842.SSF
Slope (m): 6901.436 43°45'10.54425" N 17401231.DAT
Total (m): 12128.430 121°27'40.44071" W 17091231.DAT
1261.6542 m

To: GIS54 Iono free fixed 5/3/95 15:43:45 00020836.SSF
Slope (m): 9870.717 43°50'14.56217" N 17401230.DAT
Total (m): 21999.147 121°25'23.65484" W 17091230.DAT
1263.2265 m

Closed

Precision (ppm): 0.6607
Errors (m) X: -0.0131 Y: -0.0003 Z: 0.0062

New Closure

From: GIS54

To: OBAX1 Iono free fixed 5/2/95 15:47:00 00020800.SSF
Slope (m): 2868.516 43°49'50.93828" N 17401223.DAT
Total (m): 2868.516 121°27'27.80472" W 17091223.DAT
1253.3054 m

To: OBAX3 Iono free fixed 5/2/95 23:02:00 00020830.SSF
Slope (m): 2358.477 43°48'50.84906" N 1709122D.DAT
Total (m): 5226.994 121°28'32.97557" W 1740122D.DAT
1256.6480 m

To: OBAX5 Iono free fixed 5/2/95 22:35:45 00020824.SSF
Slope (m): 2448.926 43°47'56.34754" N 1740122C.DAT
Total (m): 7675.920 121°29'52.57341" W 1709122C.DAT
1260.1096 m

To: GIS52 Iono free fixed 5/3/95 16:47:45 00020854.SSF
Slope (m): 5910.282 43°45'10.54429" N 17401233.DAT
Total (m): 13586.202 121°27'40.44029" W 17091233.DAT
1261.6457 m

To: GIS54 Iono free fixed 5/3/95 15:43:45 00020836.SSF
Slope (m): 9870.717 43°50'14.56220" N 17401230.DAT
Total (m): 23456.919 121°25'23.65443" W 17091230.DAT

1263.2180 m

Closed

Precision (ppm): 0.0881
Errors (m) X: -0.0016 Y: 0.0007 Z: 0.0012

New Closure

From: GIS69

To: OBAX6 Iono free fixed 5/2/95 00:17:45 00020782.SSF
Slope (m): 2045.854 43°48'11.05519" N 17091220.DAT
Total (m): 2045.854 121°32' 5.68964" W 17401220.DAT
1268.3650 m

To: OBAX5 Iono free fixed 5/3/95 18:10:15 00020872.SSF
Slope (m): 1070.463 43°47'56.34718" N 17401236.DAT
Total (m): 3116.317 121°29'52.57257" W 17091236.DAT
1260.0889 m

To: GIS52 Iono free fixed 5/3/95 16:47:45 00020854.SSF
Slope (m): 5910.282 43°45'10.54392" N 17401233.DAT
Total (m): 9026.599 121°27'40.43945" W 17091233.DAT
1261.6250 m

To: GIS69 Iono free fixed 5/3/95 17:16:45 00020860.SSF
Slope (m): 8139.315 43°48'11.05522" N 17401234.DAT
Total (m): 17165.914 121°32' 5.68926" W 17091234.DAT
1268.3196 m

Closed

Precision (ppm): 2.6912
Errors (m) X: 0.0246 Y: 0.0240 Z: -0.0308

New Closure

From: OBAX6

To: GIS69 Iono free fixed 5/2/95 00:17:45 00020782.SSF
Slope (m): 2045.854 43°48'11.05519" N 17091220.DAT
Total (m): 2045.854 121°32' 5.68964" W 17401220.DAT
1268.3650 m

To: GIS41 Iono free fixed 5/1/95 22:44:45 00020764.SSF
Slope (m): 7663.777 43°51'45.73724" N 17091214.DAT
Total (m): 9709.631 121°29'13.45385" W 17401214.DAT
1282.7096 m

To: OBAX2 Iono free fixed 5/1/95 18:33:00 00020746.SSF
Slope (m): 2807.094 43°50'18.38043" N 17401211.DAT
Total (m): 12516.725 121°28'38.59343" W 17091211.DAT
1248.8208 m

To: OBAX4 Iono free fixed 5/3/95 19:11:00 00020884.SSF
Slope (m): 2100.440 43°49'24.73844" N 17401238.DAT
Total (m): 14617.166 121°29'36.41801" W 17091238.DAT
1252.5661 m

To: OBAX6 Iono free fixed 5/3/95 18:42:15 00020878.SSF
Slope (m): 2553.825 43°48'13.39805" N 17091237.DAT
Total (m): 17170.991 121°30'34.24436" W 17401237.DAT

1287.5664 m

Closed

Precision (ppm): 2.1566
Errors (m) X: -0.0234 Y: -0.0287 Z: 0.0008

New Closure

From: GIS69

To: GIS41 Iono free fixed 5/1/95 22:44:45 00020764.SSF
Slope (m): 7663.777 43°51'45.73724" N 17091214.DAT
Total (m): 7663.777 121°29'13.45385" W 17401214.DAT
1282.7096 m

To: OBAX6 Iono free fixed 5/1/95 21:12:00 00020758.SSF
Slope (m): 6798.936 43°48'13.39861" N 17401213.DAT
Total (m): 14462.713 121°30'34.24408" W 17091213.DAT
1287.5588 m

To: GIS69 Iono free fixed 5/2/95 00:17:45 00020782.SSF
Slope (m): 2045.854 43°48'11.05494" N 17091220.DAT
Total (m): 16508.567 121°32' 5.68958" W 17401220.DAT
1268.3844 m

Closed

Precision (ppm): 1.2690
Errors (m) X: -0.0091 Y: -0.0172 Z: 0.0079

New Closure

From: GIS69

To: GIS41 Iono free fixed 5/1/95 22:44:45 00020764.SSF
Slope (m): 7663.777 43°51'45.73724" N 17091214.DAT
Total (m): 7663.777 121°29'13.45385" W 17401214.DAT
1282.7096 m

To: OBAX6 Iono free fixed 5/1/95 21:12:00 00020758.SSF
Slope (m): 6798.936 43°48'13.39861" N 17401213.DAT
Total (m): 14462.713 121°30'34.24408" W 17091213.DAT
1287.5588 m

To: GIS69 Iono free fixed 5/2/95 00:17:45 00020782.SSF
Slope (m): 2045.854 43°48'11.05494" N 17091220.DAT
Total (m): 16508.567 121°32' 5.68958" W 17401220.DAT
1268.3844 m

Closed

Precision (ppm): 1.2690
Errors (m) X: -0.0091 Y: -0.0172 Z: 0.0079

New Closure

From: GIS41

To: OBAX4 Iono free fixed 5/1/95 19:31:30 00020752.SSF
Slope (m): 4382.830 43°51'45.73754" N 17401212.DAT
Total (m): 4382.830 121°29'13.45441" W 17091212.DAT

1282.6930 m

To: GIS69 Iono free fixed 5/1/95 23:47:15 00020776.SSF
 Slope (m): 4038.331 43°48'11.05544" N 17091216.DAT
 Total (m): 8421.161 121°32' 5.69015" W 17401216.DAT
 1268.3503 m

To: GIS41 Iono free fixed 5/1/95 22:44:45 00020764.SSF
 Slope (m): 7663.777 43°51'45.73750" N 17091214.DAT
 Total (m): 16084.938 121°29'13.45436" W 17401214.DAT
 1282.6950 m

Closed

Precision (ppm): 0.1666
 Errors (m) X: -0.0002 Y: -0.0026 Z: 0.0004

 New Closure

From: GIS69

To: OBAX2 Iono free fixed 5/1/95 23:10:30 00020770.SSF
 Slope (m): 6072.461 43°48'11.05519" N 17091215.DAT
 Total (m): 6072.461 121°32' 5.68964" W 17401215.DAT
 1268.3650 m

To: OBAX1 Iono free fixed 5/2/95 15:19:00 00020794.SSF
 Slope (m): 1794.397 43°49'50.93868" N 17401222.DAT
 Total (m): 7866.858 121°27'27.80337" W 17091222.DAT
 1253.2848 m

To: GIS41 Iono free fixed 5/2/95 14:53:15 00020788.SSF
 Slope (m): 4258.019 43°51'45.73772" N 17401221.DAT
 Total (m): 12124.878 121°29'13.45261" W 17091221.DAT
 1282.6843 m

To: GIS69 Iono free fixed 5/1/95 22:44:45 00020764.SSF
 Slope (m): 7663.777 43°48'11.05567" N 17091214.DAT
 Total (m): 19788.655 121°32' 5.68840" W 17401214.DAT
 1268.3396 m

Closed

Precision (ppm): 2.0409
 Errors (m) X: 0.0386 Y: 0.0099 Z: -0.0068

 New Closure

From: GIS54

To: DWR2 Iono free fixed 5/2/95 18:17:45 00020818.SSF
 Slope (m): 5276.729 43°48'56.44256" N 17401226.DAT
 Total (m): 5276.729 121°28'53.66340" W 17091226.DAT
 1252.1695 m

To: GIS52 Iono free fixed 5/3/95 16:28:15 00020848.SSF
 Slope (m): 7163.059 43°45'10.54441" N 17401232.DAT
 Total (m): 12439.788 121°27'40.43997" W 17091232.DAT
 1261.6257 m

To: GIS54 Iono free fixed 5/3/95 15:43:45 00020836.SSF
 Slope (m): 9870.717 43°50'14.56233" N 17401230.DAT
 Total (m): 22310.506 121°25'23.65410" W 17091230.DAT

1263.1979 m

Closed

Precision (ppm): 0.9127
Errors (m) X: 0.0136 Y: 0.0115 Z: -0.0100

New Closure

From: OBAX5

To: GIS69 Iono free fixed 5/3/95 17:48:15 00020866.SSF
Slope (m): 3010.706 43°48'11.05519" N 17091235.DAT
Total (m): 3010.706 121°32' 5.68964" W 17401235.DAT
1268.3650 m

To: OBAX6 Iono free fixed 5/2/95 00:17:45 00020782.SSF
Slope (m): 2045.854 43°48'13.39885" N 17091220.DAT
Total (m): 5056.560 121°30'34.24414" W 17401220.DAT
1287.5394 m

To: OBAX5 Iono free fixed 5/3/95 18:10:15 00020872.SSF
Slope (m): 1070.463 43°47'56.34718" N 17401236.DAT
Total (m): 6127.023 121°29'52.57257" W 17091236.DAT
1260.0889 m

Closed

Precision (ppm): 4.3520
Errors (m) X: 0.0120 Y: 0.0171 Z: -0.0166

New Closure

From: OBAX3

To: OBAX4 Iono free fixed 5/3/95 19:48:30 00020890.SSF
Slope (m): 1762.205 43°49'24.73891" N 17401239.DAT
Total (m): 1762.205 121°29'36.41726" W 17091239.DAT
1252.5524 m

To: OBAX2 Iono free fixed 5/3/95 19:11:00 00020884.SSF
Slope (m): 2100.440 43°50'18.38089" N 17401238.DAT
Total (m): 3862.645 121°28'38.59268" W 17091238.DAT
1248.8071 m

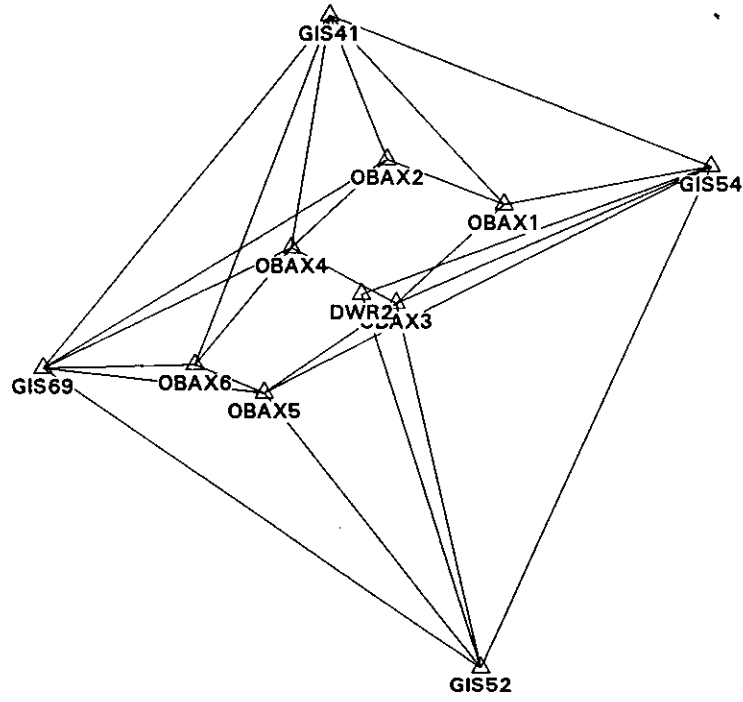
To: OBAX1 Iono free fixed 5/2/95 15:19:00 00020794.SSF
Slope (m): 1794.397 43°49'50.93904" N 17401222.DAT
Total (m): 5657.043 121°27'27.80298" W 17091222.DAT
1253.2876 m

To: OBAX3 Iono free fixed 5/2/95 23:02:00 00020830.SSF
Slope (m): 2358.477 43°48'50.84982" N 1709122D.DAT
Total (m): 8015.520 121°28'32.97382" W 1740122D.DAT
1256.6302 m

Closed

Precision (ppm): 3.5748
Errors (m) X: 0.0166 Y: 0.0148 Z: 0.0181

Network Map: 0/pbax0005



REF. MARK	ELEV. IN FEET	DESCRIPTION OF LOCATION
"SUN-3" 1984 ERM	4179.31	FOUND USCE ALUMINUM CAP ON 5/8" IRON ROD ON NORTH SIDE OF UPLAND ROAD 23' NORTH OF CENTERLINE, 120' WEST OF A 24" PONDEROSA PINE IN CENTERLINE ROAD. OPPOSITE CENTERLINE OF D/W AT RESIDENCE #17039 UPLAND. ELEVATION ADJUSTED - 0.13 FROM 1984 RECORD ELEVATION OF 4179.44
X-SEC #1	4176.13	SET MONUMENT 23' NORTH OF TOP OF BANK OF DESCHUTES RIVER AND 198' WEST OF A N-S CHAIN LINK FENCE, OFF NORTH SIDE OF A 36" PONDEROSA PINE WITH A "POSTED - NO TRESPASSING KEEP OUT" SIGN. 1A BEARS S78°W 245.2'.
1A (B.S.)	4178.54	SET ½" IRON ROD WITH RED DEACONTROL PLASTIC CAP 65' WEST OF A POINT ON A N-S CHAIN LINK FENCE THAT IS 60' SOUTH OF AN ANGLE POINT.
X-SEC #2	4157.50	SET MONUMENT 15' FROM TOP OF LEFT BANK OF DESCHUTES RIVER AT EDGE OF MARSH GRASS. FIVE MPH SIGN BEARS S23°E ACROSS RIVER, OPPOSITE CANAL ENTRANCE. 2A BEARS S27°W 280.3'.
2A (B.S.)	4158.84	SET ½" IRON ROD WITH RED D.E.A. CONTROL PLASTIC CAP ON LEFT BANK ON LINE WITH WEST EDGE OF SOUTH END CANAL ENTRANCE ACROSS RIVER.

NOTE: ALL X-SECTION POINTS ARE 5/8" IRON RODS WITH YELLOW D.E.A., INC. PLASTIC CAPS UNLESS OTHERWISE NOTED.

REF. MARK	ELEV. IN FEET	DESCRIPTION OF LOCATION
X-SEC #3	4159.42	SET MONUMENT IN MARSH GRASS ± 10' FROM TOP E-W BERM ON LEFT BANK. 150' EAST OF A N-S BERM AND CHAIN LINK FENCE EXTENDED. 3A BEARS N03°W 406.1.
X-SEC 3A (B.S.)	4157.37	SET ½" IRON ROD WITH RED D.E.A. CONTROL PLASTIC CAP, ± 30' SOUTH OF TREELINE IN MARSH GRASS.
X-SEC #4	4157.10	SET MONUMENT 30' EAST OF EAST TOP OF PENINSULA BANK AND 30' WEST OF CHANNEL IN MARSH GRASS.
X-SEC #5	4159.23	SET MONUMENT 30' FROM TREELINE AND SOUTH FROM TOP OF LEFT BANK DESCHUTES RIVER IN MARSH GRASS. A ½" IRON ROD WITH D.E.A. CONTROL PLASTIC CAP BEARS S52°W 729.8'.
5A (B.S.)	4159.52	SET ½" IRON ROD WITH RED DE A CONTROL PLASTIC CAP, ±8 FEET FROM LEFT BANK IN MARSH GRASS.
X-SEC #6	4165.23	SET MONUMENT 10' FROM LEFT BANK OF DESCHUTES RIVER 100' DOWNSTREAM OF A LODGEPOLE BUSH AT TOP OF BANK.
X-SEC #7	4160.40	SET MONUMENT 200' SOUTH OF SOUTH EDGE OF LAGOON AND 100' WEST OF LAGOON BOAT RAMP EXTENDED 25' NORTH OF DITCH IN MARSH.

NOTE: ALL X-SECTION POINTS ARE 5/8" IRON RODS WITH YELLOW D.E.A., INC. PLASTIC CAPS UNLESS OTHERWISE NOTED.

REF. MARK	ELEV. IN FEET	DESCRIPTION OF LOCATION
X-SEC #8	4166.54	SET MONUMENT 8.5' NORTH OF EDGE OF PAVEMENT OF BIKE PATH AND 33' S.W. OF S.W. END OF A FOOTBRIDGE.
PICKENS	4167.25	SET NAIL ONE FOOT UP IN NORTH SIDE OF THE TRANSFORMER POLE NEAR S.E. CORNER LOT 18 BLOCK NO. 1 OREGON WATER WONDERLAND SAID POLE BEING 120' NORTH OF THE INTERSECTION OF BIG RIVER DRIVE AND BRENDA DRIVE AND ON THE WEST SIDE OF BIG RIVER DRIVE.
X-SEC #9	4160.51	SET MONUMENT 15' FROM TOP OF LEFT BANK IN MARSH GRASS OPPOSITE SOUTH END OF A LONG CONCRETE WALL ON RIGHT BANK OF DESCHUTES.
X-SEC #10	4160.37	SET MONUMENT 30' FROM TOP OF LEFT BANK (EDGE MARSH GRASS) AND 130' DOWNSTREAM FROM FOOTBRIDGE BELOW GENERAL PATCH BRIDGE. 10A BEARS S76°E 284.3'.
10A (B.S.)	4160.45	SET ½" IRON ROD WITH RED D.E.A. CONTROL PLASTIC CAP 9' FROM TOP OF LEFT BANK IN MARSH GRASS DIRECTLY ACROSS RIVER FROM 10" LODGEPOLE PINE WITH DEAD UPPER HALF.
B.M. "PATCH"	4174.80	FOUND OREGON STATE HWY BRASS DISC AT N.E. CORNER OF GENERAL PATCH HIGHWAY BRIDGE.

NOTE: ALL X-SECTION POINTS ARE 5/8" IRON RODS WITH YELLOW D.E.A., INC. PLASTIC CAPS UNLESS OTHERWISE NOTED.

REF. MARK	ELEV. IN FEET	DESCRIPTION OF LOCATION
X-SEC #12	4163.44	SET MONUMENT 12' FROM RIGHT BANK OF DESCHUTES RIVER. 16" LODGEPOLE PINE BEARS N35°E, 36' MIDWAY BETWEEN TWO LARGE WILLOW BUSHES ON TOP OF BANK.
X-SEC #13	4163.26	SET MONUMENT 4' WEST OF TOE OF ROAD FILL SOUTH CENTURY DRIVE AND 4' EAST OF MARSH GRASS. "LEFT CURVE" SIGN BEARS N53°W, 90'.
X-SEC #14	4173.69	SET MONUMENT 20' FROM TOP OF RIGHT BANK ON SHARP BEND IN RIVER. 16" LODGEPOLE PINE ON TOP OF BANK BEARS S46°W, 40'. ALSO, 10' EAST OF A ZIGZAG SPLIT RAIL FENCE.
X-SEC #15	4164.56	SET MONUMENT 30' EAST OF EDGE OF MARSH GRASS. A 3" ALUMINUM CAP "WC C¼ S.26" BEARS S23°W ± 72'.
X-SEC #16	4170.32	SET MONUMENT 15' FROM RIGHT BANK OF DESCHUTES RIVER IN A VACANT LOT 35' SOUTH OF A BROWN RAIL FENCE AT SHARP BEND IN THE RIVER.
X-SEC #17	4161.81	SET MONUMENT 10' FROM RIGHT BANK OF DESCHUTES RIVER AT EDGE OF MARSH GRASS. "NO SHOOTING" SIGN BEARS N.E. 60'.
X-SEC #18	4168.53	SET MONUMENT IN MIDDLE OF A CLEARING AND 10' EAST OF EAST EDGE OF A LODGEPOLE THICKET ISLAND.

NOTE: ALL X-SECTION POINTS ARE 5/8" IRON RODS WITH YELLOW D.E.A., INC. PLASTIC CAPS UNLESS OTHERWISE NOTED.

REF. MARK	ELEV. IN FEET	DESCRIPTION OF LOCATION
"64"	4176.22	FOUND RAILROAD SPIKE IN BASE OF 16" PONDEROSA PINE WITH DOUBLE TOP ±102' WEST OF E-W 1/64 $\frac{35}{2}$ ± 100' EAST OF RIVER.
R.M. 201.1	4173.20	FOUND 2" ALUMINUM CAP MARKED "USCE" "201.1" "1984" 25' N.E. OF TOP OF RIGHT BANK OF DESCHUTES RIVER. ELEVATION ADJUSTED + 0.09 FROM 1984 RECORD ELEVATION OF 4173.11.
X-SEC "BB"	4172.99	SET MONUMENT AT TOP OF RIGHT BANK OF DESCHUTES RIVER. S.W. CORNER OF LOG CABIN BEARS N45°E ± 200'.
"BATES" 1984 ERM	4178.80	FOUND RAILROAD SPIKE IN BASE OF 26" PONDEROSA PINE AT S.W. QUADRANT OF INTERSECTION OF BATES ROAD & FOREST LANE - RIVER FOREST ACRES SUBDIVISION.
"NITA" 1984 ERM	4189.92	FOUND RAILROAD SPIKE AND ALUMINUM WASHER IN EAST BASE 24" PONDEROSA PINE ON RIGHT BANK OF THE DESCHUTES RIVER AT THE POINT WHERE USFS ROAD 4205 FIRST NEARLY HITS THE RIVER BANK FROM THE NORTH ± 250' S.W. OF A TWO STORY FRAME HOUSE (BLUE).
OBAX-6	4288.17	SET 3" DAVID EVANS & ASSOCIATES BRASS CAP RISING 0.1' AT S.E. QUADRANT INTERSECTION OF BATES ROAD & MUNSON STREET OF RIVER FOREST ACRES SUBDIVISION.

NOTE: ALL X-SECTION POINTS ARE 5/8" IRON RODS WITH YELLOW D.E.A., INC. PLASTIC CAPS UNLESS OTHERWISE NOTED.

REF. MARK	ELEV. IN FEET	DESCRIPTION OF LOCATION
OBAX-5	4198.22	SET 3" DAVID EVANS & ASSOCIATES BRASS CAP RISING 0.1' ± 225' NORTH OF INTERSECTION OF BEAVER DRIVE AND MARTIN LANE 25' WEST OF CENTERLINE MARTIN LANE ON LINE WITH 3' HIGH RAIL FENCE.
W-E-E 1/256 1984 ERM	4188.70	FOUND 2½ BRASS CAPS 10' EAST OF CENTERLINE OF OVERHEAD POWERLINE AND 40' NORTH OF CENTERLINE OF A CINDER ROAD "GRAY WOLF LANE" AND 200' WEST OF INTERSECTION WITH FOSTER ROAD
DWR-2	4171.97	FOUND USGS BRASS CAP IN CONCRETE PILLAR S.E. CORNER OF SOUTH CENTURY DRIVE AND SEEVERS ROAD.
SNOW	4182.42	SET SPIKE IN LIGHT POLE WEST BASE 3" UP LOCATED IN N.W. QUADRANT OF INTERSECTION OF SNOW GOOSE AND SOUTH CENTURY DRIVE.
GOOSE	4178.37	FOUND ½" IRON ROD IN WEST BASE OF POWER POLE #5012 LOCATED ± 30' SOUTH OF INTERSECTION OF BLUE HERON DRIVE AND SNOW GOOSE ROAD ON EAST SIDE OF SNOW GOOSE ROAD HEADING SOUTH ON SNOW GOOSE ROAD.
BLUE	4163.98	SET SPIKE IN SOUTH BASE OF POWER POLE #5012L10L1 LOCATED ± 150' EAST OF INTERSECTION OF CRANE DRIVE AND BLUE HERON DRIVE AT BASE OF HILL.

NOTE: ALL X-SECTION POINTS ARE 5/8" IRON RODS WITH YELLOW D.E.A., INC. PLASTIC CAPS UNLESS OTHERWISE NOTED.