

Bonneville Power Administration  
Geodetic Control Data Sheet

Station: WM002 (202)  
Project: Wallula-Smiths Harbor-McNary  
Section: NW 1/4 35 Township: 8 North Range: 31 East Meridian: Willamette  
County: Walla Walla State: WA USGS Quad: Humorist, Washington  
Surveyor: M R Heidecke Date Surveyed: July, 2001

Instrument:

The horizontal coordinates and orthometric elevation were established by GPS observations using six Trimble 4000 SSI dual frequency receivers with Compact L1/L2 antennae with ground plane.

Adjustment:

The Basis of Coordinates for this survey is the Washington State Coordinate System, South Zone, NAD 83 (1998). The horizontal component of the least squares adjustment was constrained by holding NGS Stations B 340 (A), B 502 (B), PENDLETON (B), STANFIELD EAST BASE RESET (B), and BURDEN (B). The vertical component of the least squares adjustment was constrained by holding NGS Benchmarks B 340 (First Order Class II), B 502 (First Order Class II), BURDEN (Second Order Class II), V 203 (Second Order Class 0), G 640 (First Order Class I). The elevation for point 106, 201, 249, and 255 were determined by differential leveling from G 640, D 502, E 525 and F 431 respectively and held.

Horizontal Datum: NAD83 (1998) Linear Unit: U.S. Survey Feet  
Vertical Datum: NAVD88 Linear Unit: U.S. Survey Feet

Latitude: N 46-08-19.94645	Longitude: W 118-54-34.78587
US State Plane Coordinate System: Washington South Zone - 4602	
Northing: 297,815.291	Easting: 2,043,529.667
Orthometric Elevation: 477.10	Ellipsoid Height: 406.14
Combined Factor: 0.99992537	Convergence: - 1-09-19
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.013	Easting-0.009
	Elevation-0.106

Monumentation: BPA 3/4-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.  
Stamping: U.S.D.O.E. Bonneville Pwr. Adm., WM002 - FEC-01 - ATB - GPS

To-Reach Description:

Begin at Wallula Post Office at Wallula, Wa. 99363. Drive north on Columbia Way (County Road #1870) 0.2 miles. to intersection of Columbia Way and Washington State Highway #12. Drive north on Washington State Highway #12, 3.8 miles to intersection of Highway #12 and Dodd-Iowa Beef Road. Turn right and drive east on Dodd-Iowa Beef Road 1.1 miles. Station is on the left, 65 feet north of the centerline of Dodd-Iowa Beef Road.

Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

RECEIVED BY  
Wallula County  
Date  
Rec'd By  
No. 02-19-9