

Bonneville Power Administration
Geodetic Control Data Sheet

Station: WM020 (220)
Project: Wallula-Smiths Harbor-McNary
Section: SW 1/4 30 Township: 7 North Range: 32 East Meridian: Willamette
County: Walla Walla State: WA USGS Quad: Zangar Junction, 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 46-03-22.07452	Longitude: W 118-51-31.50659
US State Plane Coordinate System:	Washington South Zone - 4602
Northing: 267,913.635	Easting: 2,057,060.327
Orthometric Elevation: 412.95	Ellipsoid Height: 342.41
Combined Factor: 0.99994060	Convergence: - 1-11-32
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.009	Easting-0.006
	Elevation-0.098

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., WM020 - FEC-01 - ATB - GPS

To-Reach Description:

Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Go east on Washington State Highway #12, 2.6 miles to the station on the north side of the highway. The monument is 33 feet north of the north fog line, 33 feet east of the end of a guardrail and 275 feet east of mile post 310. Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

RECEIVED BY
Walla Walla County Surveyor
Date: _____
Rec'd By: _____
No. 02-19-9