

Bonneville Power Administration
Geodetic Control Data Sheet

Station: WM017 (217)
Project: Wallula-Smiths Harbor-McNary
Section: NE 1/4 23 Township: 7 North Range: 31 East Meridian: Willamette
County: Walla Walla State: WA USGS Quad: Wallula, 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 46-04-49.86839	Longitude: W 118-53-51.41721
US State Plane Coordinate System:	Washington South Zone - 4602
Northing: 276,601.898	Easting: 2,047,015.109
Orthometric Elevation: 376.12	Ellipsoid Height: 305.33
Combined Factor: 0.99993856	Convergence: - 1-09-50
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.009	Easting-0.006 Elevation-0.097

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., WM017 - FEC-01 - ATB - GPS

To-Reach Description:

Begin at Wallula Post Office at Wallula, Wa. 99363. Drive south on Columbia Way (County Road #1870) 0.1 miles to intersection of First Street. Drive east on First Street 0.1 miles to intersection of Ross Way. Drive south on a dirt farm road 0.1 miles where the dirt field road turns east. Continue east on the dirt field road along the North line of Section 23, Township 7 North, Range 31 East, 0.4 miles to the station. The station is 27 feet south of the centerline of the east-west field road and is 46 feet south of a PP&L power pole #145002.

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 _____
02-19-09