

Bonneville Power Administration  
Geodetic Control Data Sheet

Station: MJ006 (106)  
 Project: Wallula-Smiths Harbor-McNary  
 Section: NW 1/4 15                      Township: 5 North                      Range: 28 East                      Meridian: Willamette  
 County: Umatilla                      State: OR                      USGS Quad: Umatilla, Oregon  
 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 Oregon State Coordinate System, North 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: International Feet  
 Vertical Datum: NAVD88                      Linear Unit: U.S. Survey Feet

Latitude: N 45-55-05.06550	Longitude: W 119-18-14.76006
US State Plane Coordinate System:	Oregon North Zone - 3601
Northing: 823,081.662	Easting 8,506,462.473
Orthometric Elevation: 467.57	Ellipsoid Height: 396.27
Combined Factor: 0.99996130	Convergence: - 0-50-53
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.011	Easting-0.009                      Elevation-0.000

Monumentation: Concrete monument with brass disk  
 Stamping: U.S.C.&G.S. BM G640, 1968

To-Reach Description:

Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway 730, 0.9 miles to intersection of Highway 395. Continue east 0.1 mile on Highway 730. Station is on north (left) side of Highway 730 adjacent to right-of-way fence. Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

RECEIVED BY  
 UMATILLA COUNTY SURVEYOR  
 Date 2-02  
 Rec'd By. [Signature]  
 No. 02-19-g [Signature]