

GPS NETWORK MAP in WALLA WALLA COUNTY, WASHINGTON and UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

POINT NO.		SHINGTON SOUTH S. SURVEY FEET NORTHING	WASHINGTON SOUTH U.S. SURVEY FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTATION	TO REACH DESCRIPTION
△ WM001	U.S.D.O.E. Bonneville Pwr. Adm., WM001 – FEC-01 – ATB – GPS	297594.199	2038423.995	381.84	0.99992996	1*08'26"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Wallula Post Office in 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. Drive north on Washington State Highway #12 and Dodd—lowa Beef Road. Turn right and drive east on Dodd—lowa Beef Road O.2 miles to the station on right. Station is 45 feet south of centerline of Dodd—lowa Beef Road in centerline of canal bank road, 125 feet east of the canal crossing of Rainier Lane, private road.
<u>∆</u> wм002	U.S.D.O.E. Bonneville Pwr. Adm., WM002 – FEC-01 – ATB – GPS	297815.291	2043529.667	477.10	0.99992537	1'09'19"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	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-lowa Beef Road. Turn right and drive east on Dodd-lowa Beef Road 1.1 miles. Station is on the left, 65 feet north of the centerline of Dodd-lowa Beef Road.
△ WM 003	U.S.D.O.E. Bonneville Pwr. Adm., WM003 – FEC01 – ATB – GPS	297687.242	2053662.959	594.42	0.99991989	171'03"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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. Drive north on Washington State Highway #12 and Dodd-lowa Beef Road. Turn right and drive east on Dodd-lowa Beef Road 2.8 miles to intersection of track road to right (south). Station is 200 feet south of the centerline of Dodd-lowa Beef Road and 35 feet west of centerline of track dirt field road.
△ WM 004	U.S.D.O.E. Bonneville Pwr. Adm., WM004 – FEC-01 – ATB – GPS	295747.270	2041147.255	422.49	0.99992873	1*08*54**	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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-lowa Beef Road. Turn right and drive east on Dodd-lowa Beef Road 0.7 miles to intersection with the Union Pacific Railroad crossing (north-south). Drive south on Union Pacific Railroad right-of-way access road, running on east side of tracks, 0.3 miles . Station is on hummock, on railroad right-of-way, 51 feet east of centerline of railroad tracks.
△ WM 005	U.S.D.O.E. Bonneville Pwr. Adm., WM005 - FEC-01 - ATB - GPS	292394.926	2041120.937	402.79	0.9993093	1'08'53"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	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-lowa Beef Road. Turn right and drive east on Dodd-lowa Beef Road 0.7 miles to intersection with the Union Pacific Railroad crossing (north-south). Drive south on Union Pacific Railroad right-of-way access road, running on east side of railroad tracks, 1.1 miles. Station is 150 feet east of centerline of railroad tracks, 75 feet south of railroad signal poles and 43 feet south of east west fence line.





<u>LEGEND</u>

△ BPA GPS STATION

FOUND NGS STATION

FINLEY ENGINEERING COMPANY, INC.

Twin Oaks Suite B-250
1800 NW 169th Place
BEAVERTON, OREGON 97006
Phone: (503) 466-9460 Fox: (503) 466-9979



UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
HEADQUARTERS, PORTLAND, OREGON

WALLULA — SMITHS HARBOR "ATP" SMITHS HARBOR — McNARY "ATB" GPS NETWORK MAP

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	DRAWN BY: FEC-EMH	DATE: 02/04/02
	CHECKED BY: FEC-TLH	02/04/02
	APPROVED: FEC-DCL	
	APPROVED: FEC-MRH	
	SCALE: N/A	SHEET: 2
	DRAWING NO.: smgpsROS	or: 14
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GPS NETWORK MAP WALLA WALLA COUNTY, WASHINGTON UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

POINT NO.	STAMPING	WASHINGTON SOUTH U.S. SURVEY FEET NORTHING	WASHINGTON SOUTH U.S. SURVEY FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTA TION	TO REACH DESCRIPTION
▲ WM006	U.S.D.O.E. Bonneville Pwr. Adm., WM006 FEC-01 - ATE - GPS	_	2040044.807	366.33	0.99993369	1'08'41"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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, 2.2 miles, to intersection of a gravel road to the right (east). Drive east on gravel road 105 feet. Station is 16 feet south of the edge of the gravel road.
∆ W M007	U.S.D.O.E. Bonneville Pwr. Adm., WM007 FEC-01 — ATB — GPS	_	2044512.501	451.49	0.99993195	109'26"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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, 1.0 mile, to intersection of a dirt road to the right (east). Sign at intersection says to Worden Farms & Boise Cascade Fiber Farm Office. Drive east on dirt road 0.3 miles crossing between 2 PP&L 115kV transmission lines to a dirt road to the right (south). Drive south, sign says to Boise Cascade Fiber Farm Office. Drive south on dirt road 125 feet to the station, 30 feet west of dirt road centerline.
∆ W M008	U.S.D.O.E. Bonneville Pwr. Adm., WMO08 FEC-01 - ATB - GPS	_	2047443.339	441.43	0.99992829	1709'58"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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-lowa Beef Road. Turn right and drive east on Dodd-lowa Beef Road 2.8 miles to intersection of gravel road running northeast-southwest. Drive southwesterly on gravel road 1.0 mile to intersection of Union Pacific Railroad and railroad access road. Drive northeasterly on railroad access road running on east side of Union Pacific track 0.2 miles to station 70 feet east of railroad centerline and 30 feet west of railroad right-of-way fence.
W 009	U.S.D.O.E. Bonneville Pwr. Adm., WM009 FEC-01 — ATB — GPS	_	2050940.470	580.12	0.99992247	170'34"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	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. All Dadd—lowa Beef Road. Turn right and drive east on Dodd—lowa Beef Road. Turn right and drive east on Dodd—lowa Beef Road State Washington of Gravel road running northeast—southwest and dirt field road running south & southest between circles, 1.2 miles to 25 foot tall water tank and pumping station. Continue south 0.1 miles to field road intersection north—south and east—west. A 5 foot tall tree is located southeast of the intersection. Drive east on dirt field road 0.1 mile to station 46 feet south of dirt road.
PRO	U.S.D.O.E. Bonneville Pwr. Adm., WM010 FEC-01 - ATB - GPS REGISTERED DFESSIONAL D SURVEYOR	_	2056721.823	602.98	0.99992062	171'34"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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-lowa Beef Road. Turn right and drive east on Dodd-lowa Beef Road 4.6 miles to the crossing of BPA Lower Monumental—McNary 500kV transmission line. Drive southerly on the transmission line access road 1.1 miles to intersection of dirt field road along the north side of a canal running east—west along the south section line of Section 31, Township 8 North, Range 32 East. Drive west on dirt road 0.5 miles to intersection of a dirt field road. Drive north on the dirt field road 0.3 miles to the station. Station is 35 feet west of centerline of dirt road.





LEGEND

△ BPA GPS STATION

● FOUND NGS STATION

FINLEY ENGINEERING COMPANY, INC.



UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION

HEADQUARTERS, PORTLAND, OREGON WALLULA - SMITHS HARBOR "ATP" SMITHS HARBOR - McNARY "ATB" GPS NETWORK MAP

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'	SCALE: N/A	SHEET: 3
	DRAWING NO.: smgpsROS	o r : 14

Salved Bi Umatilia County Surveyor

Twin Ooks Suite B-250 1800 NW 169th Place BEAVERTON, OREGON 97006 Phone: (503) 466-9460 Fox: (503) 466-9979

WALLA WALLA COUNTY, WASHINGTON

UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

POINT NO.		ASHINGTON SOUTH J.S. SURVEY FEET NORTHING	WASHINGTON SOUTH U.S. SURVEY FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTA TION	TO REACH DESCRIPTION
▲ WM011	U.S.D.O.E. Bonneville Pwr. Adm., WM011 – FEC-01 – ATB – GPS	292874.999	2058725.922	642.52	0.99991944	1'11'54"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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-lowa Beef Road. Turn right and drive east on Dodd-lowa Beef Road 4.6 miles to the crossing of BPA Lower Monumental—McNary 500kV transmission line. Drive southerly on the transmission line access road 1.1 miles to intersection of a dirt field road along the north side of a canal running east—west along the south section line of Section 31, Township 8 North, Range 32 East. Drive west on dirt road 250 feet to station 20 feet north of the centerline of dirt road.
△ WM012	U.S.D.O.E. Bonneville Pwr. Adm., WM012 – FEC-01 – ATB – GPS	289810.046	2059692.020	570.19	0.99992408	1112'04"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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. All Dadd-lows Beef Road. Turn right and drive east on Dodd-lows Beef Road. Turn right and drive east on Dodd-lows Beef Road 4.6 miles to the crossing of BPA Lower Monumental—McNary 500kV transmission line. Drive southerly on the transmission line access road 1.6 miles to tower 34/1. Pack or use ATV to reach the station, which bears S65°E a distance of 1500 feet from tower 34/1.
△ WM 013	U.S.D.O.E. Bonneville Pwr. Adm., WM013 – FEC-01 – ATB – GPS	285833.939	2056396.389	577.63	0.99992526	171'29"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	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. S.B miles to intersection of Highway #12 and Dodd—lowa Beef Road. Turn right and drive east on Dodd—lowa Beef Road 4.6 miles to the crossing of BPA Lower Monumentol—McNary 500kV transmission line. Drive southerly on the transmission line access road 2.5 miles to the station. The station is 497 feet south and 123 feet west of tower 34/5.
△ WM 014	U.S.D.O.E. Bonneville Pwr. Adm., WM014 – FEC-01 – ATB – GPS	281830.631	2057217.522	575.61	0.99992698	111'37"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	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, 1.0 mile to intersection of a dirt road to the right (east). Sign at intersection says to Worden Forms & Boise Cascade Fiber Farm Office. The dirt road parallels 2 PP&L 69kV transmission lines. Drive southeasterly 2.7 miles along the PP&L lines to the station. The station is 240 feet west and 137 feet south of PP&L structure 5/2.
	U.S.D.O.E. Bonneville Pwr. Adm., WMO15 – FEC-01 – ATB – GPS	282681.260	2051869.212	504.74	0.99992997	170'42"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	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, 1.0 mile to intersection of a dirt road to the right (east). Sign at intersection says to Worden Farms & Boise Cascade Fiber Farm Office. The dirt road parallels 2 PP&L Byk Vransmission lines. Drive southeasterly 1.5 miles along the PP&L lines to the station. The station bears west 219 feet from the south pole of PP&L structure 5/4.





<u>LEGEND</u>

△ BPA GPS STATION

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UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION

HEADQUARTERS, PORTLAND, OREGON WALLULA — SMITHS HARBOR "ATP"
SMITHS HARBOR — MCNARY "ATB"
GPS NETWORK MAP

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	CHECKED BY: FEC-TLH	02/04/02
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	SCALE: N/A	SHEET: 4
	DRAWING NO.: smgpsROS	or: 14

RECEIVED BY

GPS NETWORK MAP in walla walla county, washington

and UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

					FE	BRUARY 4,	2002	
POINT NO.	STAMPING	WASHINGTON SOUTH U.S. SURVEY FEET NORTHING	WASHINGTON SOUTH U.S. SURVEY FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTA TION	TO REACH DESCRIPTION Begin at Wallula Post Office at Wallula, Wa. 99363. Drive north on Columbia Way
∆ WM 016	U.S.D.O.E. Bonneville Pwi Adm., WM016 FEC-01 – AT – GPS	-	2048048.348	477.34	0.99993086	1'10'02"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Wallula Post Office at Wallula, wa. 9990.5 brief link in State (County Road #870) 0.2 miles to intersection of Columbia Way and Washington State Highway #12. Drive north on Washington State Highway #12, 1.0 mile to intersection of a dirt road to the right (east). Drive east on the dirt road parallel to 2 PP&L 69kV transmission lines 0.9 miles to the station on the left. The station is S42"W, 94.3 feet from south pole of PP&L structure 3/5.
∆ WM 017	U.S.D.O.E. Bonneville Pw Adm., WM017 FEC-01 - A ⁻¹ - GPS	-	2047015.109	376.12	0.99993856	1'09'50"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	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.
△ WM 018	U.S.D.O.E. Bonneville Pw Adm., WMO1E FEC-01 - A - GPS	3 -	2051083.040	448,41	0.99993513	1710'32"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	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, 1.1 miles to the station. The station is 35.1 feet south of the dirt road centerline, and is 27 feet east of a PP&L power pole #243900.
∆ w м019	U.S.D.O.E. Bonneville Pv Adm., WID FEC-011 — A - GPS	9 -	2050363.343	411.05	0.99993909	1'10'24"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Wallula Post Office at Wallula, Wa. 99363. Drive north on Columbia Way (County Road #1870) 0.1 miles to intersection of Columbia Way and Washington State Highway #12. Drive south on Washington State Highway #12, 1.1 miles to the intersection of a gravel road to the left (east). Sign says Northshore Road. Drive east on Northshore Road 150 feet to a fork. Continue east on left fork. Sign says to Wallul Habitat Management Unit, continue east on 16 foot gravel road parallel to Union Pacifi Railroad tracks (north side) for 1.4 miles to intersection of a dirt road on right (south). Sign says Ranger Road. Drive south on Ranger Road 65 feet thru a gate to station on the right, 40 feet west of centerline of Ranger Road.
▲ WM 020	U.S.D.O.E. Bonneville P Adm., WMO2 FEC-OI - / - GPS	.0 –	2057060.327	412.95	0.99994060	171'32"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	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.
∆ WM 021	U.S.D.O.E. Bonneville P Adm., WM02 FEC-01 - 1	21 -	2043894.610	414.15	0.99994037	1'09'16"	BPA 3½-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Station is east on Highway #12, 250 feet and north 150 feet. The station is on top of a natural earth mound in the interior of the "Y" formed by the junction of Washington State Highway #12 and Highway #730. Station is S85*W from PP&L power pole #279442.
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FINLEY ENGINEERING COMPANY, INC.

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EXPIRES 6/30/03

Twin Oaks Suite B-250 1800 NW 169th Place BEAVERTON, OREGON 97006 Phone: (503) 466-9460 Fox: (503) 466-9979 <u>LEGEND</u>

▲ BPA GPS STATION◆ FOUND NGS STATION



UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
HEADQUARTERS, PORTLAND, OREGON

WALLULA - SMITHS HARBOR "ATP"
SMITHS HARBOR - McNARY "ATB"
GPS NETWORK MAP

DRAWN BY: FEC-EMH	
CHECKED BY: FEC-TLH	02/04/02
APPROVED: FEC-DCL	
APPROVED: FEC-MRH	
SCALE: N/A	SHEET: 5
DRAWING NO.: smgpsR0	s or : 14

GPS NETWORK MAP in WALLA WALLA COUNTY, WASHINGTON and UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

POINT NO.	STAMPING	WASHINGTON SOUTH U.S. SURVEY FEET NORTHING	WASHINGTON SOUTH U.S. SURVEY FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTATION	TO REACH DESCRIPTION
▲ WM 022	U.S.D.O.E. Bonneville Pwr Adm., WM022 FEC-01 - AT - GPS	=	2048150.421	1063.93	0.99991127	1'09'59"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive southeasterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental—McNary 500kV transmission line near tower 39/3. The station is approximately 200 feet northwest of the tower and 19 feet east of the east right—of—way fence of Hatch Grade Road.
▲ WM023	U.S.D.O.E. Bonneville Pw Adm., WM023 FEC-01 – AT – GPS	_	2043306.853	1123.39	0.99991065	1'09'08"	BPA 3½—inch Aluminum Cap on 5/8—inch aluminum rod, flush with ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive southeasterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental—Monry 500kV transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road to right (south). Drive south on Braden Ranch Road 0.4 miles to intersection of a semi-permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road to the right (west). Drive southwesterly 0.8 miles to a fork. The left fork is graded and graveled road that descends to Spring Gulch Canyon. From this point pack or ATV northwest across dry land wheat field 0.8 miles to the station. The station bears N 30* W, 170 feet from center of structure 3/27 of PP&L 230 kV transmission line.
∆ WM024	U.S.D.O.E. Bonneville Pwr Adm., WM024 FEC-01 - AT - GPS	_	2045172.904	1374.19	0.99990140	1'09'26"	BPA 3½-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive southeasterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental—McNary 500kV transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road to right (south). Drive south on Braden Ranch Road 0.4 miles to intersection of a semi-permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road 0.5 miles to a fork, take right fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road 0.3 miles to station. Station is 25 feet left of centerline of the gravel road.
PRO	U.S.D.O.E. Bonneville Pwr Adm., WM025 FEC-01 - AT - GPS REGISTERED OFESSIONAL D SURVEYOR	_	2042086.077	1358.80	0.99990389	1'08'54"	BPA 3½-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive south easterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental—McNary Soloky transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road 0.4 miles to intersection of a semi-permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road 0.5 miles to a fork, toke right fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road 1.3 miles to a fork. The left fork is graded and graveled road. Drive the Spring Gulch 100 feet to a fork. Drive south and southwesterly and uphill through wheat field 0.9 miles to intersection with BPA 500ky transmission line and the Washington—Oregon State line. Pock or ATV northeasterly along BPA transmission line 0.4 miles to the station located about 640 feet easterly from BPA tower 42/3





LEGEND

△ BPA GPS STATION

FOUND NGS STATION



FINLEY ENGINEERING COMPANY, INC.

Twin Oaks Suite B-250 1800 NW 169th Place BEA/ERTON, OREGON 97006 Phone: (503) 466-9460 Fax: (503) 466-9979



UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION

HEADQUARTERS, PORTLAND, OREGON

WALLULA - SMITHS HARBOR "ATP"

SMITHS HARBOR - McNARY "ATB"

GPS NETWORK MAP

GPS NETWORK MAP

DRAWN BY:	FEC-EMI	DATE: 02/04/02
CHECKED BY:	FEC-TLH	02/04/02
 APPROVED:	FEC-DCL	
APPROVED:	FEC-MRH	
SCALE: N/	A	SHEET: 6
DRAWING NO.:	smgpsROS	or: 14

RECEIVED BY

GPS NETWORK MAP WALLA WALLA COUNTY, WASHINGTON UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

POINT NO.	STAMPING	WASHINGTON SOUTH U.S. SURVEY FEET NORTHING	WASHINGTON SOUTH U.S. SURVEY FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTATION	TO REACH DESCRIPTION
 ∆ WM 021A	None	267439.670	2046416.377	404.57	0.99994112	1'09'42"	PK Nail in Asphalt. (GPS point WM021A)	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive east on Washington State Highway #12, 0.4 mile to a 24 foot wide asphalt driveway to the right (south), heading into Washington D. O. T. gravel pit. The mark is a PK Nail in the centerline of driveway 56 feet west of milepost marker 308 and 9 feet south of the south fog line.
△ WM021B	None	267146.488	2048850.022	412.24	0.99994090	110'07"	PK Nail in Aspholt. (GPS point WM021B)	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive east on Washington State Highway #12, 1.0 mile to the intersection of a paved road to the left (north). The intersection is 400 feet west of the intersection of Washington State Highway #12 and BPA Lower Monumental—McNary 500kV transmission line. The mark is a PK Nail in the approximate centerline of the paved road's north bound driving lane, 54.6 feet north of centerline of Washington State Highway #12 and 64 feet east of a stop sign.
▲ WM021C	U.S.D.O.E. Bonneville Pw Adm., WM021 - FEC-01 - ATB - GPS	266682.463 r.	2051786.878	444.47	0.99993959	1"10'37"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive east on Washington State Highway #12, 1.45 mile to the station. The station is 49 feet north of the centerline of Washington State Highway #12, also 23 feet west of U.S.C.&G.S. Bench Mark F-431.
● B502	B502, 1981	277985.953	2043948.214	368.12	0.99993834	1*09'19"	3/4" Stainless Steel Rod in U.S.C.&G.S. Monument Box.	From the junction of US Highway #12 and Highway #730, proceed north on US highway #12, 1.8 miles to a historic marker site on the left and the station set near the Granite Marker for Fort Walla Walla. Station is 66.5 feet southwest of US Highway #12 centerline and 1.3 feet south of the south edge of the Granite Marker.
● E336	E336, 1951	293046.657	2038017.059	362.45	0.99993259	1'08'21"	Brass Disk In Top of Concrete Monument.	Drive 3.35 miles north along US Highway #12 and #395 from the north t-junction of Wallula Road at Wallula, 0.5 miles north of highway milepost 303, 80.5 feet south of the fourth telephone pole 0.1 mile south of the Northern and Union Pacific Railroad milepost 2, 99.6 feet west of the centerline of the highway, 88.0 feet east of the east rail, 61.0 feet north-northeast of the fifth telephone pole number EA 35 south of the railroad milepost, 11.2 feet west-southwest of the southwest edge of a 5 x 5 foot boulder projecting 3 feet above the ground, 4.0 feet northeast of a wooden witness post. Mark is 1.3 feet east from a witness post. Mark is 3.1 feet below the highway centerline.
● V203	U.S.C.&G.S., V203, 1949	298164.500	2051684.190	507.65	0.99992384	1110'43"	3½-inch Brass Cap In 3½-inch Pipe Set In Concrete Post.	Drive 3.7 miles northeast along the Northern Pacific Railway from the station at Attalia 159.5 feet northeast of milepost 16, 19.8 feet southeast of the southeast rail, 3.8 fee southeast of a witness post, about 3 feet lower than the track, and brazed on top of a $3\ 1/2$ -inch iron pipe projecting 0.7 foot above the ground.
	BURDEN, 199	262170.490	2105224.002	443.82	0.99994214	1119'47"	Horizontal control disk set in top of concrete monument.	The station is located about 25.0 miles southwest of Prescott, 23.0 miles southeast o Pasco, 16.0 miles west of Walla Walla and at the Walla Walla county shop in Touchet. From the junction of Hanson Road, Balm Street and US Highway #12 in Touchet, go east on US Highway #12 for 0.3 mile to a cross road. Turn right and go south on Walnut Road for 0.2 miles to the county shop on the right and the station on the inside of the fenced area. The mark is set in the top of a round concrete monument that is recessed 0.49 feet below the ground surface. It is 61.4 feet southwest of the south gate post, 26.9 feet west of the chain link fence and 7.9 feet north of a count





LEGEND

△ BPA GPS STATION

● FOUND NGS STATION





UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION

HEADQUARTERS, PORTLAND, OREGON WALLULA - SMITHS HARBOR "ATP" SMITHS HARBOR - McNARY "ATB" GPS NETWORK MAP

in Day 1	
DRAWN BY: FEC-EMH	DATE: 02/04/02
CHECKED BY: FEC-TLH	02/04/02
APPROVED: FEC-DCL	
APPROVED: FEC-MRH	
SCALE: N/A	SHEET: 7
DRAWING NO.: smgpsROS	or: 14

FINLEY ENGINEERING COMPANY, INC.

Twin Oaks Suite B-250 1800 NW 169th Place BEAVERTON, OREGON 97006 Phone: (503) 466-9460 Fax: (503) 466-9979

GPS NETWORK MAP WALLA WALLA COUNTY, WASHINGTON UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

POINT NO.	STAMPING	OREGON NORTH INTERNATIONAL FEET NORTHING	OREGON NORTH INTERNATIONAL FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTATION	TO REACH DESCRIPTION
▲ M J002	None	822342.980	8516252.327	499.21	0.99995923	0*52'31"	PK Nail in pavement (GPS point MJ002)	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 2.9 miles to intersection of Highway #730 and Beach Access Road. Turn left (north) onto Beach Access Road at McNary Beach Park sign. Drive 0.2 miles north on Beach Access Road to station painted on road. Station is PK nail driven into pavement.
△ MJ003	None	826241.888	8516083.199	504.26	0.99996145	0*52'30"	2 inch wood hub with tack (GPS point MJ003)	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 2.9 miles to intersection of Highway #730 and Beach Access Road. Turn left (north) onto Beach Access Road at McNary Beach Park sign. Drive 0.9 miles to "Y" intersection of Beoch Access Road and Roxburn Road. Turn right (northeast) at McNary Beach Park sign and right at gravel road (100 feet).
∆M J004	HPP-16, 2000	821588.942	8510975.120	473.62	0.99996003	0*51'38"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 1.9 miles to intersection of a 12 foot wide gravel road to right (south). Drive south on the gravel road 0.2 miles to a cattle guard and the station. The station is west of the cattle guard, 16.3 feet from an east/west fence and 16.6 feet from a north/south fence.
∆ G640	U.S.C.&G.S. BM G640, 1968	823081.662	8506462.473	467.57	0.99996130	0*50'53"	Concrete monument with brass disk. (GPS point MJ006)	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.
△ MJ008	U.S.D.O.E. Bonneville Pv Adm. MJ008, RYA 01		8506242.644	295.14	0.99997290	0'50'52"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 0.9 miles to junction of Highway #730 and Highway #395. Turn left (north) at stop light. Drive 0.7 mile, on Denore Road, cross railroad tracks to stop sign. Turn left (northwest). Drive 0.7 mile to Spillway Park turn around. Station is north of turn around, 58 feet north of curb and 24 feet south of fence, west of Spillway Park end.
▼W 1009	Punched not stamped	824953.375	8502855.533	306.46	0.99997020	0'50'17"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 0.9 miles to junction of Highway #730 and Highway #395. Turn left (north) at stop light. Drive 0.7 mile, on Denore Road, cross railroad tracks to stop sign. Turn left drive 0.2 miles to junction with 3rd Street. Turn left (west) onto 3rd Street, drive 1.0 mile (post McNary Substation). Turn left (south) onto 15° gravel drive. Station is 300 feet south on gravel drive, 15° feet right of edge of gravel.
∆м Ј010	U.S.D.O.E. Bonneville Pv Adm., MJ010 RYA 01		8502501.221	399.85	0.99996142	0'50'13"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive west on Highway #730, 0.3 miles to Umatilla River Road, turn left (south) for 0.9 miles to Bonney Lane turn left (east) on Bonney Lane across railroad tracks and turn right (south) at intersection of dirt roads. Proceed south for 250 feet to a dirt road on the left that crosses cultivated fields. Follow dirt road for 1100 feet to the station. Station lies at a complex of farm buildings at the northwest side. Station lies S73*W, 160 feet from a sprinkler pivot point.

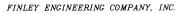




LEGEND

△ BPA GPS STATION

FOUND NGS STATION



Twin Oaks Suite B-250 1800 NW 169th Place BEAVERTON, OREGON 97006 Phone: (503) 466-9460 Fox: (503) 466-9979





DATE: 02/04/02 DRAWN BY: FEC-EMH CHECKED BY: FEC-TLH 02/04/02 HEADQUARTERS, PORTLAND, OREGON APPROVED: FEC-DCL WALLULA — SMITHS HARBOR "ATP" SMITHS HARBOR — McNARY "ATB" GPS NETWORK MAP APPROVED: FEC-MRH SCALE: N/A DRAWING NO.: smgpsROS 14

UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION

WALLA WALLA COUNTY, WASHINGTON

UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

POINT NO.	STAMPING	OREGON NORTH INTERNATIONAL FEET NORTHING	OREGON NORTH INTERNATIONAL FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTATION	TO REACH DESCRIPTION
▲ ₩МО26	U.S.D.O.E. Bonneville Pwr. Adm., WM026 – FEC-01 – ATB GPS		8600344.263	1548.53	0.99992962	1'06'41"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive southeasterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental—McNary 500kV transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road to right (south). Drive south on Braden Ranch Road 0.4 miles to intersection of a semi—permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road 0.4 miles to a fork. Drive fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road southwesterly 1.3 miles to a fork in the bottom of Spring Gulch. Drive the left fork parallel to Spring Gulch 100 feet to a fork. Drive the right fork south and southwesterly and uphill through wheat field 0.9 miles to intersection with BPA 500kV transmission line and the Washington—Oregon State line. Continue east on dirt road along state line 0.3 miles to station. Station set in the fence line on the south side of the dirt road.
▲ WM 027	U.S.D.O.E. Bonneville Pwr. Adm., WM027 – FEC-01 – ATB GPS		8604293.756	1433.11	0.99993474	1'07'21"	BPA 3¼—inch Aluminum Cap on 5/8—inch oluminum rod, flush with ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive southeasterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental—McNary 500kV transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road to right (south). Drive south on Braden Ranch Road 0.4 miles to intersection of a semi—permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road 0.4 miles to a fork. Drive on right fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road southwesterly 1.3 miles to a fork in the bottom of Spring Gulch.

△ WM028 U.S.D.O.E. Bonneville Pwr. Adm., WM028 -FEC-01 - ATB - 850889.084

8599463.622

1623.25

0.99992338 1'06'31' BPA 31/4-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.

Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 mile to the intersection of Hotch Grade to the left south). Drive southeasterly on Hotch Grade Road 1.5 miles to intersection of BPA Lower Monumental—McNary 500ky transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road to right (south). Drive south on Braden Ranch Road 0.4 miles to intersection of a semi-permanent wheat field access road to the right (west). Drive intersection of a semi-permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road 0.4 miles to a fork. Drive on right fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road southwesterly 1.3 miles to a fork in the bottom of Spring Gulch. Drive the left fork parallel to Spring Gulch 0.6 miles to a fork. Drive the right fork northeasterly 0.2 miles to a fork. Drive the right fork northeasterly 0.2 miles to a fork. Drive the right fork northeasterly on a 24 foot wide gravel road 0.6 miles to the Braden Ranch HQ, continue southwesterly on a 15 foot wide gravel road 0.9 miles to a fork. Drive the right fork on a 15 foot wide gravel road (vacated Umatilla County Road #896) northwesterly 2.3 miles to a fork that is 300 feet east of BPA 500kV transmission line. Drive right fork on a 10 foot wide semi-permanent wheat field access road 0.3 miles to the station. The station is in the centerline of a 10 foot wide dirt wheat field access road.

Drive the left fork parallel to Spring Gulch 0.6 miles to a fork. Drive the right fork northeasterly 0.2 miles to a fork. Drive the right fork northeasterly on a 24 foot wide gravel road 0.6 miles to the Braden Ranch HQ buildings. Passing thru the Braden Ranch HQ, continue southwesterly on a 15 foot wide gravel road 0.9 miles to a fork. Drive the right fork on a 15 foot wide gravel road (vacated Umatilla County Road #896) northwesterly 1.2 miles to the station. Pack or walk 150 feet east to a high point on a

REGISTERED PROFESSIONAL LAND SURVEYOR MMUSIL

OREGON FEB. 14, 1988 MARK R. HEIDECKE

EXPIRES 6/30/03



LEGEND

△ BPA GPS STATION

FOUND NGS STATION



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UNITED STATES DEPARTMENT OF ENERGY BONNEVILLE POWER ADMINISTRATION

sage brush covered knoll to the station.

HEADQUARTERS, PORTLAND, OREGON WALLULA - SMITHS HARBOR "ATP" SMITHS HARBOR - McNARY "ATB" GPS NETWORK MAP

N BY:	FEC-EMH	DATE: 0	2/04/02
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RECEIVED Umatilla County Surveyor

WALLA WALLA COUNTY, WASHINGTON

UMATILLA COUNTY, OREGON

FEBRUARY	4,	2002
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POINT NO.	STAMPING	OREGON NORTH INTERNATIONAL FEET NORTHING	OREGON NORTH INTERNATIONAL FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	ΜΟΝυΜΕΝΤΑ ΠΟΝ	TO REACH DESCRIPTION
∆ WM029	U.S.D.O.E. Bonneville Pwr. Adm., WM029 – FEC-01 – ATB – GPS	845065.214	8596357.444	1434.13	0.99992847	1'05'59*	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod 1.3 feet below ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive southeasterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental—McNary 500kV transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road 0.4 miles to intersection of a semi-permanent wheat field access road to the right (west). Drive south on Braden Ranch Road 0.4 miles to intersection of a semi-permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road to the right (west). Drive on right fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road southwesterly 1.3 miles to a fork in the bottom of Spring Gulch. Drive the left fork parallel to Spring Gulch 0.5 miles to a fork. Drive the right fork northeasterly 0.2 miles to a fork. Drive the right fork northeasterly 0.2 miles to a fork. Drive the right fork on a 15 foot wide gravel road 0.9 miles to a fork. Drive the right fork on a 15 foot wide gravel road 0.9 miles to a fork. Drive the right fork on a 15 foot wide gravel road 0.9 miles to a fork. Drive the right fork on a 15 foot wide gravel road 1.5 morthwesterly 2.3 miles to a fork that is 300 feet east of BPA 500kV transmission line. Drive left fork on a 10 foot wide semi-permanent wheat field and transmission line access road 1.4 miles to tower 44/6. Pack or ATV S40°E, 1800 feet cross country and wheat fields to the station.
△ WM030	U.S.D.O.E. Bonneville Pwr. Adm., WM030 – FEC-01 – ATB – GPS	843283.478	8591921.340	1415.86	0.99992821	1'05'14"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod 1.5 feet below ground.	Begin on Washington State Highway #12 at the Washington State Truck Weigh Station at Wallula Junction. Drive west on Washington State Highway #12, 0.1 miles to the intersection of Hatch Grade to the left (south). Drive southeasterly on Hatch Grade Road 1.5 miles to intersection of BPA Lower Monumental—McNary 500kV transmission line. Continue southeasterly on Hatch Grade Road 1.0 mile to intersection of Braden Ranch Road to right (south). Drive south on Braden Ranch Road 0.4 miles to intersection of a semi-permanent wheat field access road to the right (west). Drive southwesterly on the private wheat field access road to the right to right fork northwesterly 0.8 miles to a fork. The left fork is graded and graveled road. Drive the graveled road southwesterly 1.3 miles to a fork in the bottom of Spring Gulch. Drive the left fork parallel to Spring Gulch 0.6 miles to a fork. Drive the right fork northeasterly 0.2 miles to a fork. Drive the right fork on the state of the Braden Ranch HQ buildings. Passing thru the Braden Ranch HQ, continue southwesterly on a 24 foot wide gravel road 0.9 miles to a fork. Drive the right fork on a 15 foot wide gravel road (vacated Umatilla County Road #996) northwesterly 2.3 miles to a fork that is 300 feet east of BPA SOOKV transmission line. Drive left fork on a 10 foot wide semi-permanent wheat field and transmission line access road 2.3 miles to a fork that is 300 feet east of BPA SOOKV transmission line.
△ WM 031	U.S.D.O.E. Bonneville Pwr. Adm., WM031 – FEC-01 – ATB – GPS	835671.873	8584302.317	1122.21	0.99993727	1'03'56"	BPA 3½—inch Aluminum Cap on 5/8—inch aluminum rod, 1.5 feet below ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 6.2 miles to tower 47/2. Pack N45°W about 800 feet to the station.
∆ ₩M032	U.S.D.O.E. Bonneville Pwr. Adm., WM032 – FEC-01 – ATB – GPS	835113.947	8585954.371	1060.74	0.99993981	1'04'13"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 6.2 miles to tower 47/2. Pack S45°E, 180 feet from tower center to the station.





△ BPA GPS STATION

FOUND NGS STATION

<u>LEGEND</u>

UNITED STATES DEPARTMENT OF ENERGY

WALLULA - SMITHS HARBOR "ATP" SMITHS HARBOR - McNARY "ATB" GPS NETWORK MAP

	DRAWN BY:	FEC-EMH	DATE: 02/04/02
	CHECKED BY:	FEC-TLH	02/04/02
	APPROVED:	FEC-DCL	
**	APPROVED:	FEC-MRH	
•	SCALE: N/A	١	SHEET: 10
	DRAWING NO.:	smgpsROS	or: 14

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BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON

in

WALLA WALLA COUNTY, WASHINGTON

UMATILLA COUNTY, OREGON

FEBRUARY 4, 2002

POINT NO.	STAMPING	OREGON NORTH INTERNATIONAL FEET NORTHING	OREGON NORTH INTERNATIONAL FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTA TION	TO REACH DESCRIPTION
△ WM 033	U.S.D.O.E. Bonneville Pwr. Adm., WM033 – FEC-01 – ATB – GPS	833655.634	8588006.612	1120.00	0.99993601	1*04'33"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 6.2 miles to tower 47/2. From this tower pack or ATV to the station which is about 3000 feet southwest on BLM grazing land. Advise using hand held GPS equipment to locate point.
∆ WM034	U.S.D.O.E. Bonneville Pwr. Adm., WM034 – FEC-01 – ATB – GPS	831006.239	8591630.597	1160.67	0.99993231	1*05'09"	BPA 3¼-inch Aluminum Cop on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeosterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeosterly on the transmission line access road 6.2 miles to tower 47/2. From this tower pack or ATV to the station which is about 7000 feet southwest on BLM grazing land. Advise using hand held GPS equipment and ATV to locate point.
∆ WM 035	U.S.D.O.E. Bonneville Pwr. Adm., WM035 – FEC-01 – ATB – GPS	831960.864	8579408.676	1215.24	0.99993048	1'03'06"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeosterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 4.2 miles to tower 49/2. From this tower the station is 261 feet northeast.
∆ WM036	U.S.D.O.E. Bonneville Pwr. Adm., WM036 – FEC-01 – ATB – GPS	828048.962	8572034.028	1021.68	0.99993729	1"01'52"	BPA 3½—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 2.9 miles to intersection of a Pacific Power & Light 230kV transmission line at PP&L structure 2/16. Drive north on the PP&L transmission line access road 0.4 miles to PP&L structure 5/16. Drive east on the PP&L line access road 0.6 miles to PP&L structure 2/17. The station is 181 feet north of the PP&L line.
▲ WM036	U.S.D.O.E. Bonneville Pwr. Adm., WM037 - FEC-01 - ATB - GPS	827831.541	8568718.884	883.38	0.99994042	1°01'18"	BPA 3¼-inch Aluminum Cap on 5/8-inch oluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 2.9 miles to intersection of a Pacific Power & Light 230kV transmission line at PP&L structure 2/16. Drive north on the PP&L transmission line access road 0.4 miles to PP&L structure 5/16 to the station. The station is west 162 feet from the center of pole of PP&L structure 5/16.
△ wм038	U.S.D.O.E. Bonneville Pwr. Adm., WM038 – FEC-01 – ATB – GPS	825723.406	8568593.482	887.65	0.99994225	1*01'17"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 1.3 miles to intersect BPA 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 2.9 miles to intersection of a Pacific Power & Light 230kV transmission line at PP&L structure 2/16. The station is 228 feet northeast of the center of PP&L structure 2/16.





LEGEND

△ BPA GPS STATION

FOUND NGS STATION

FINLEY ENGINEERING COMPANY, INC.

Twin Oaks Suite B-250 1800 NW 169th Place BEA/ERTON, OREGON 97006 Phone: (503) 466-9460 Fax: (503) 466-9979



UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION
HEADQUARTERS, PORTLAND, OREGON

WALLULA — SMITHS HARBOR "ATP"
SMITHS HARBOR — McNARY "ATB"
GPS NETWORK MAP

DRAWN BY: FEC-EMH	DATE: 02/04/02
CHECKED BY: FEC-TLH	02/04/02
APPROVED: FEC-DCL	
APPROVED: FEC-MRH	
SCALE: N/A	SHEET: 11
DRAWING NO.: smgpsROS	or: 14

RECEIVED BY

WALLA WALLA COUNTY, WASHINGTON

UMATILLA COUNTY, OREGON

FEBRUARY 4, 2002

POINT NO.	STAMPING IN	OREGON NORTH TERNATIONAL FEET NORTHING	OREGON NORTH INTERNATIONAL FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTATION	TO REACH DESCRIPTION
∆ WM039	U.S.D.O.E. Bonneville Pwr. Adm., WM039 – FEC-01 – ATB – GPS	824241.533	8567957.380	898.19	0.99994082	1'01'10"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 2.0 miles to intersection of Walls Road to right (west) and a private drive to left (east). Sign says "Philip and Ardele Hawman". Drive northeasterly on private drive 0.6 miles to the Hawman Ranch house. Continue northeasterly following field access roads along cultivated farm fields 2.0 miles to the station. Advise using hand held GPS equipment to find point.
▲ WM 040	U.S.D.O.E. Bonneville Pwr. Adm., WM040 – FEC-01 – ATB – GPS	824040.203	8561110.598	803.74	0.99994529	1°00'01"	BPA 3½—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 2.0 miles to intersection of Walls Road to right (west) and a private drive to left (east). Sign says "Philip and Ardele Hawman". Drive northeasterly on private drive 0.6 miles to the Hawman Ranch house. Continue northwesterly following field access roads along cultivated form fields 0.4 miles to the station. Advise using hand held GPS equipment to find point.
△WM 041	U.S.D.O.E. Bonneville Pwr. Adm., WM041 - FEC-01 - ATB - GPS	825018.137	8558494.511	665.89	0.99995251	0'59'35"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37 1.3 miles to intersect BPA Lower Monumental—McNary 500kV transmission line crossing Highway #37 northeast to southwest. Drive northeasterly on the transmission line access road 1.0 mile to tower 53/2. The station is approximately 115 feet southeast of an irrigation pumping structure.
∆₩M 042	U.S.D.O.E. Bonneville Pwr. Adm., WM042 – FEC-01 – ATB – GPS	817803.565	8551417.586	680.86	0.99994738	0*58'23"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 9.2 miles to intersection of State Highway #37 to right (south). Drive southeasterly on State Highway #37, 1.3 miles to intersect BPA Lower Monumental—McNary 500kV transmission line crossing Highway #37 northeast to southwest. Drive southwesterly on the transmission line access road 0.7 miles to tower 55/1. The station is approximately 215 feet southwest of tower 55/1.
∆ ₩M043	U.S.D.O.E. Bonneville Pwr. Adm., WM043 - FEC-01 - ATB - GPS	817983.506	8544381.049	500.39	0.99995618	0*57'13"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 8.4 miles to intersection of a 12 foot wide gravel road to the right (south). Drive southwesterly on the 12 foot wide gravel road 0.7 miles to the station about 120 feet south of gravel road, dead end. Advise use of hand held GPS equipment to locate point.
∆ WM 044	U.S.D.O.E. Bonneville Pwr. Adm., WM044 – FEC-01 – ATB – GPS	823456.915	8540684.054	418.38	0.99996353	0*56'37"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 8.3 miles to intersection of a 24 foot wide paved road to the left (north). Sign says "Hat Rock State Park." Drive north on Hat Rock State Park Road 0.7 miles to intersection of "C" Street. Drive east on "C" Street 0.5 miles to intersection of Beachshore Drive. Drive (left) on Beachshore Drive 0.1 miles to the station, 85 feet west of the centerline of Beachshore Drive.
∆ WM045	U.S.D.O.E. Bonneville Pwr. Adm., WM045 - FEC-01 - ATB - GPS	815907.432	8540748.727	490.18	0.99995544	0*56'36"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 7.5 miles to intersection of State Highway #207 to the right (south). Drive southwesterly on State Highway #207 0.3 miles to the intersection of BPA Lower Monumental—McNary 500kV transmission line crossing from east to west. Drive easterly on the transmission line access road 0.3 miles to tower 57/3. Pack easterly along transmission line 0.2 miles to tower 57/2 and the station about 50 feet south of tower 57/2.





△ BPA GPS STATION

• FOUND NGS STATION

<u>LEGEND</u>

WORK ORDER NO. 00087372 00084927 SERIAL NO.

UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION

HEADQUARTERS, PORTLAND, OREGON WALLULA - SMITHS HARBOR "ATP" SMITHS HARBOR - MCNARY "ATB" GPS NETWORK MAP

<u> </u>	
DRAWN BY: FEC-EMH	DATE: 02/04/02
CHECKED BY: FEC-TLH	02/04/02
APPROVED: FEC-DCL	
APPROVED: FEC-MRH	
SCALE: N/A	SHEET: 12
DRAWING NO.: smgpsROS	or: 14

RECEIVED BY tilla County Survey

FINLEY ENGINEERING COMPANY, INC.

Twin Oaks Suite B-250 1800 NW 169th Place BEAVERTON, OREGON 97006 Phone: (503) 466-9460 Fox: (503) 466-9979

WALLA WALLA COUNTY, WASHINGTON UMATILLA COUNTY, OREGON FEBRUARY 4, 2002

POINT NO.	STAMPING	OREGON NORTH INTERNATIONAL FEET NORTHING	OREGON NORTH INTERNATIONAL FEET EASTING	ORTHOMETRIC ELEVATION U.S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTA TION	TO REACH DESCRIPTION
△ WM 046	U.S.D.O.E. Bonneville Pwr. Adm., WM046 - FEC-01 - ATB - GPS	814466.080	8540510.324	492.89	0.99995443	0'56'33"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 7.5 miles to intersection of State Highway #207 to the right (south). Drive southwesterly on State Highway #207 0.8 miles to the intersection of East Progress Road. Drive east on East Progress Road 0.4 miles to gate and sign "Private Road". Continue east on East Progress Road 0.2 miles to end of povernent and station on south side of the road. Station is 122 feet southeast from road centerline at end of povernent.
△ WM 047	U.S.D.O.E. Bonneville Pwr. Adm., WM047 – FEC-01 – ATB – GPS	810415.879	8542953.894	568.03	0.99994838	0*56'57"	BPA 3¼—inch Aluminum Cap on 5/8—inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 5.3 miles to intersection of Craig Road to the right (south). Drive south on Craig Road 1.9 miles to the intersection of Umatilla County Road "Walls Road" to the left (east). Drive east on Walls Road 3.0 miles to the intersection of Marks Road to the left (north). Drive north on Marks Road 0.2 miles to the station, 24 feet east of centerline of Marks Road.
△ WM 048	U.S.D.O.E. Bonneville Pwr. Adm., WM048 – FEC-01 – ATB – GPS	819256.592	8535856.190	454.61	0.99995924	0*55'47"	BPA 3½-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 6.7 miles. Pack north approximately 2000 feet to the station. Advise use of hand held GPS equipment to locate point.
∆ WM049	Edwards 951	817924.238	8532265.890	456.52	0.99995837	0*55'11"	Yellow plastic cap on 5/8—inch steel rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 5.1 miles to station in the south right-of-way fence. Station is 54.5 feet south of the centerline of Highway #730 in the south right-of-way fence of Highway #730, and 400 feet west of MP 190.
△ WM 050	U.S.D.O.E. Bonneville Pwr. Adm., WM050 - FEC-01 - ATB - GPS	816563.972	8526985.104	466.63	0.99995710	0'54'18"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 5.3 miles to intersection of Craig Road to the right (south). Drive south on Craig Road 0.5 miles to the station on right (west) side of road. Station is 15 feet from west edge of Craig Road and 9 feet east of barb wire fence.
△WM 051	U.S.D.O.E. Bonneville Pwr. Adm., WM051 – FEC-01 – ATB – GPS	820263.593	8521093.588	496.97	0.99995799	0*53'20"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 3.9 miles to station on left (north) side of road. Station is 49 feet from centerline of Highway #730.
△ WM052	U.S.D.O.E. Bonneville Pwr. Adm., WM052 - FEC-01 - ATB - GPS	818168.183	8516457.926	474.54	0.99995781	0*52'33"	BPA 3¼-inch Aluminum Cap on 5/8-inch aluminum rod flush with ground.	Begin at Umatilla Post Office, Umatilla, OR. 97882. Drive east on Highway #730, 1.9 miles to the intersection of a 12 foot wide gravel road to the right (south). Drive south on the gravel road 0.2 miles to a cattle guard and a canal crossing. Drive southeasterly along the south side of the conal 1.2 miles to a gate and the station. The station is 95 feet south of the gate and 15 feet west of the canal.
●B340	U.S.C.&G.S., B340, 1951	832734.892	8507269.537	364.32	0.99997238	0*51'03"	Brass Cap in Concrete Barricade Wall.	At McNary Dam, Benton County, at the extreme north end of the dam, on the Spokane, Portland and Seattle Railway, at the concrete stop log structure across the tracks, in the center of the top of the structure, 24 feet south of the south roil, 14.5 feet south of the south stop log slot, and 8.8 feet higher than the track.





LEGEND

△ BPA GPS STATION

FOUND NGS STATION



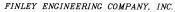
UNITED STATES DEPARTMENT OF ENERGY

WALLULA — SMITHS HARBOR "ATP" SMITHS HARBOR — McNARY "ATB" GPS NETWORK MAP

	DRAWN BY: FEC-EMH	DATE: 02/04/02
	CHECKED BY: FEC-TLH	02/04/02
_	APPROVED: FEC-DCL	
	APPROVED: FEC-MRH	
	SCALE: N/A	SHEET: 13
	DRAWING NO.: smgpsROS	or: 14

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Usaatilla County Surveyor



Twin Oaks Suite B-250
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BEAVERTON, OREGON 97006
Phone: (503) 466-9460 Fox: (503) 466-9979

BONNEVILLE POWER ADMINISTRATION HEADQUARTERS, PORTLAND, OREGON

WALLA WALLA COUNTY, WASHINGTON and UMATILLA COUNTY, OREGON

FEBRUARY 4, 2002

POINT NO.		REGON NORTH RNATIONAL FEET NORTHING	OREGON NORTH INTERNATIONAL FEET EASTING U	ORTHOMETRIC ELEVATION .S. SURVEY FEET	COMBINED FACTOR	THETA ANGLE	MONUMENTATION	TO REACH DESCRIPTION
• STANFIELD	Stamped Stanfield East Base U.S.C.& G.S. 1941 1916	769651.509	8508898.251	758.54	0.99991714	ɔ'51'10"	A standard U.S.E. bronze disk set in the top of a 1-foot square concrete monument that projects about 4 inches above the ground.	From the Post Office in Stanfield, proceed north for 0.1 miles to a cross road. Turn left and go west on Coe Street for 0.25 miles to a fork. Take the left fork and go southwest, crossing the railroad tracks, for 0.8 miles to a side road left. Turn left and go south for 0.6 miles to the overposs over Interstate Highway #84. Continue south for 0.4 miles to a cross road. Turn right and go west for 2.55 miles to a bridge over a canal. Continue west for 0.1 miles to a fork. Take the right fork, pass through the gate and go northwest on the sand road for 0.25 miles to a fork. Take the left fork and go west for 0.3 miles to a fence. Turn right along the east side of the fence for 0.2 miles to a fence corner. From this point go north-northeast cross country on the track road for 0.2 miles to the highest point and the station. The mark is set in the top of a square concrete monument that projects 0.98 feet above the ground surface.
● PENDLETON	N Stamped Pendleton 1963	733999.652	8642421.588	1325.31	0.99987242	173'18"	The station is a standard disk, set in the top of a 12-inch square concrete post which projects 2 inches above the ground.	From the intersection of Interstate Highway #84 and SE 3rd Street, exit number 210, proceed north on SE 3rd Street for 0.3 miles to a cross road. Turn right and go east on SE Goodwin Street for 0.1 miles to an intersection. Turn right on SE 8th Street for 0.4 miles to the intersection of SE 6th Street and East Isaac Street. Continue south on SE 6th Street for 0.2 miles to the end of the street and the station. The mark is set in the top of a square concrete monument that projects 3 inches above the ground surface. It is 41.0 feet west of a power line pole, 37.4 feet southwest of the northwest gate post of a gate across the entrance to the water reservoir and 3.0 feet west of a witness post.





<u>LEGEND</u>

△ BPA GPS STATION

FOUND NGS STATION



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UNITED STATES DEPARTMENT OF ENERGY
BONNEVILLE POWER ADMINISTRATION

HEADQUARTERS, PORTLAND, OREGON

WALLULA — SMITHS HARBOR "ATP"
SMITHS HARBOR — MCNARY "ATB"
GPS NETWORK MAP

_	BB4441 B4 550 5441	DATE: 00 /04 /00
	DRAWN BY: FEC-EMH	DATE: 02/04/02
	CHECKED BY: FEC-TLH	02/04/02
_	APPROVED: FEC-DCL	
	APPROVED: FEC-MRH	
	SCALE: N/A	SHEET: 14
	DRAWING NO.: smgpsROS	or: 14

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Umatilla County Surveyor

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