

NARRATIVE:

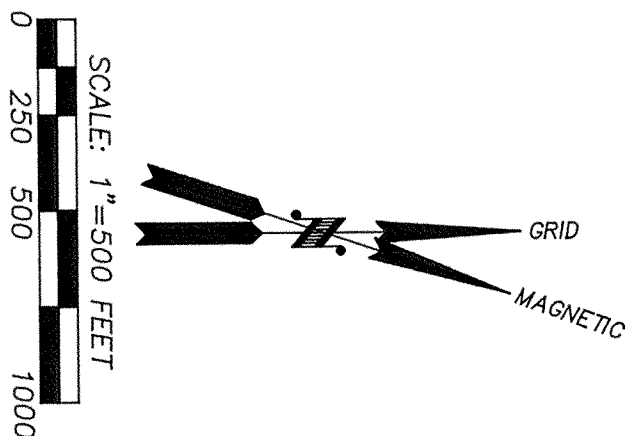
THIS SURVEY CONTROL DIAGRAM IS FURNISHED TO SHOW THE DETERMINATION OF THE COLUMBIA GORGE NATIONAL SCENIC AREA (CGNSA) BOUNDARY AND EXISTING BOUNDARY POWER ADMINISTRATION (BPA) TRANSMISSION TOWERS THROUGH THE SADDLEBACK WIND POWER PROJECT. THE POSITION OF THE CGNSA ANGLE POINTS AND BPA TOWER LOCATIONS ARE GIVEN IN NORTH AMERICAN DATUM OF 1983 (N.A.D.83). STATE PLANE COORDINATES WITH NORTH AMERICAN VERTICAL DATUM 1988 (N.A.V.D.88).

THE CGNSA ANGLE POINTS WERE DETERMINED BY HOLDING TOPOGRAPHICAL FEATURES SHOWN ON THE CONGRESSIONAL APPROVED, SEPTEMBER 1986 NSA-001 QUADRANGLE MAP. IN CASES WHERE THE CONTROLLING TOPOGRAPHICAL FEATURES WERE INCONCLUSIVE I RELIED ON THE ANGLE AND DISTANCES PROVIDED BY THE U.S. FOREST SERVICE (USFS). ALONG WITH NAD27 COORDINATES, THE POSITIONS PROVIDED BY THE FOREST SERVICE ARE SUBJECT TO CHANGE AS THE FINAL PRODUCT WAS NOT AVAILABLE AT THE TIME OF THIS SURVEY.

THE TRAVERSE WAS CLOSED INTO G.P.S. CONTROL AND ADJUSTED WITH COMPASS RULE. CLOSURE WAS WELL WITHIN THE 1:5,000 POSITIONAL TOLERANCE. THE TRAVERSE LOCATIONS PROVIDED BY THE USFS MATCHED FAIRLY WELL TO TOPOGRAPHICAL FEATURES. THE CGNSA ANGLE POINTS WERE MARKED WITH 6 FIBERGLASS POSTS. THE COORDINATE VALUES SHOWN AT THE BPA TRANSMISSION TOWERS ARE THE CALCULATED CENTER LINE OF THE FIELD LOCATED CORNERS.

THIS TO AVAILABLE SECTION CORNERS ARE SHOWN WITH BEARING AND DISTANCE. COMPLETE SECTION BREAKDOWN WAS BEYOND THE SCOPE OF THIS PROJECT. THE CGNSA LINE IS TIED TO GOVERNMENT CORNERS WHERE CORNERS WERE AVAILABLE. THEREFORE THE CGNSA LINE MAY BE REPRODUCED IN THE FUTURE.

NOTE: ALL TOPOGRAPHICAL FEATURES IDENTIFIED WERE TO THE CENTERLINE THEREOF. IE: STREAM, RIDGE, ROAD ETC.



SCALE: 1"=500 FEET



N.A.D. 83 WASHINGTON SOUTH, GRID BEARINGS

GRID CONVERGENCE -0°47.96' NEAR CENTER OF PROJECT

HORIZONTAL GROUND DISTANCES

MAGNETIC DECLINATION IS 18 1/2° EAST FROM GRID NORTH BY USGS 1994 MAP

TERRESTRIAL CONTROL				G.P.S. - CONTROL			
POINT	NORTHING	EASTING	ELEVATION	POINT	NORTHING	EASTING	DESC.
1007	150928.8147	135238.23672	1358.07	1001	151027.712	135216.468	60D
1008	150884.8147	135236.15544	1353.08	1002	151027.712	135220.27	BOLT
1009	150947.3534	135288.8062	1329.40	1004	151231.884	13562.20	60D
1010	150975.5633	135304.29673	1318.23	1005	150844.539	135498.466	60D
1011	150919.2964	135318.014767	1339.71	1006	150554.913	135478.340	60D
1012	150848.2494	135330.52252	1392.89				
1013	150832.4724	135346.0116	1453.16				
1014	150806.9990	135361.5307	1494.23				
1015	150788.5240	135375.3976	1550.15				
1016	150863.2481	135396.9737	1630.81				
1017	150963.8672	135433.9613	1670.53				
1019	151114.9836	135469.5437	1781.41				
1020	151174.9836	135483.6837	1819.12				
1021	151192.6351	135608.9539	2194.91				
1022	151176.73482	135619.6513	2263.76				
1023	152203.9681	135693.1714	2237.67				
1024	152203.9681	135668.7368	2201.40				
1025	151681.5980	135717.42530	2152.21				
1026	152618.2794	1357508.2238	2082.37				
1027	152909.7210	1358389.0228	2082.37				
1028	154135.2749	1358389.0228	2082.37				
1029	154064.6680	1358655.4606	2091.61				
1030	154183.6669	1358635.1372	2105.00				
1031	154352.5817	135878.2595	2042.34				
1032	154081.0800	1358497.7848	2131.48				
1033	154507.3333	1358497.7848	2131.48				
1034	154607.3333	1359128.8622	2149.16				
1035	155188.1101	1359282.8622	2170.82				
1037	156194.5048	1359704.1646	2171.50				
1038	156294.0630	1359931.0461	2171.50				
1039	155375.3181	1359722.2753	2145.42				
1040	156503.6103	1360310.5868	2179.18				
1041	156740.5185	1360549.8729	2209.39				

TERRESTRIAL CONTROL			
POINT	NORTHING	EASTING	ELEVATION
1053	152434.3241	1357371.5745	2146.70
1054	152881.4039	1357498.4040	2152.59
1055	152860.2686	1357223.3432	2188.78
1056	152231.1986	1357418.4731	2103.92
1057	152081.5390	1357354.8750	2111.34
1058	151956.7800	1357224.11469	2131.04
1059	151640.5800	1357078.3528	2131.84
1060	151418.8255	1356912.8011	2161.86
1061	151686.2139	1356862.6190	2202.05

NSA ANGLE POINTS			
POINT	NORTHING	EASTING	ELEVATION
309	150938.7220	1352883.8170	1330.08
310	150928.1160	1353063.1680	1321.43
311	150885.5970	1353245.8970	1365.79
312	151117.2680	1355775.1910	2083.25
313	151177.7450	1356231.3750	2231.99
314	151343.9320	1356894.7720	2042.34
315	151546.4510	1357243.3080	2042.01
316	152016.3620	1357503.854	2042.01
317	152997.3065	135838.1534	1877.02
318	153863.4466	1358938.7191	2017.27
319	154598.9439	1359136.9147	2118.64
320	155197.3758	1359107.8185	2145.39
321	155786.0136	1359449.2811	2147.88

LINE TABLE			
LINE	TABLE	DESC.	DESC.
L1	S 86°56'03" E	179.61	
L2	S 76°36'14" E	187.84	
L3	N 37°31'45" W	216.52	
L4	N 59°35'54" E	404.10	
L5	SEE PAGE 2		

G.P.S. - GEODETIC CONTROL			
POINT	NORTHING	EASTING	ELEVATION
1000	139485.676	1372195.949	336.74



LOCATION OF SURVEY:
SECTION 13 IN TOWNSHIP 3 NORTH, RANGE 9 EAST AND
SECTIONS 7, 8 & 18 TOWNSHIP 3 NORTH, RANGE 10 EAST,
WM., SKAMANIA COUNTY, WASHINGTON.

EQUIPMENT:

TOPCON ITS-1B WITH A 5 SECOND HORIZONTAL
ACCURACY. LAST INSPECTED IN JANUARY 2007, BY
PPI GROUP OF PORTLAND, OR. TRAVERSE CLOSURES
CONTAINED A MAXIMUM 4" ANGULAR ADJUSTMENT
AND A MAXIMUM COMPASS ADJUSTED ERROR OF CLOSURE
OF 1 : 5000. ANGLES WERE ADJUSTED BEFORE THE
COMPASS ADJUSTMENT WAS APPLIED.
LOCUS STATIC G.P.S. RECEIVERS BY SOKKIA WITH
HORIZONTAL ACCURACY OF 5MM + 1PPM.

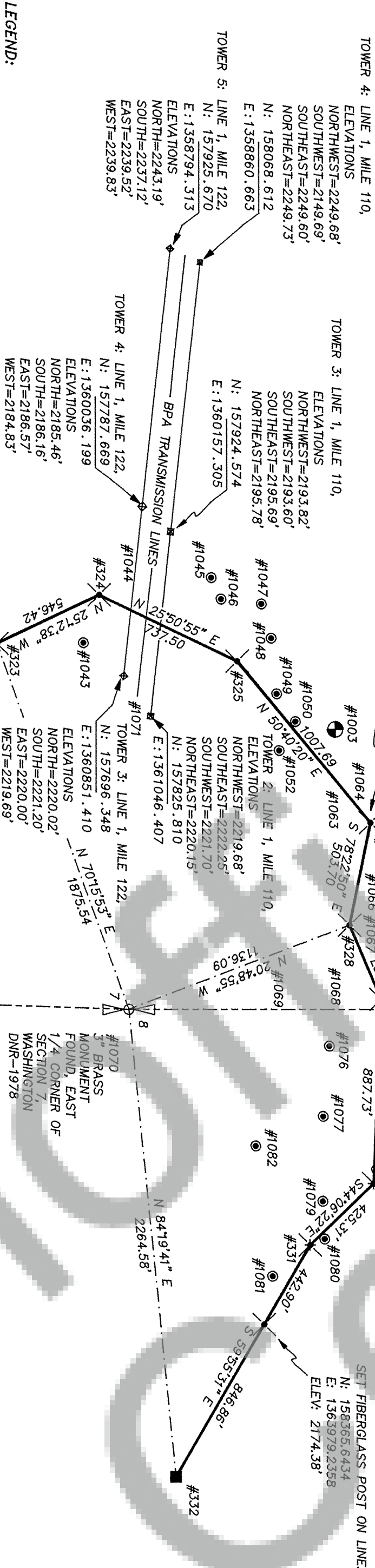
SURVEY CONTROL DIAGRAM
for
SADDEBACK MOUNTAIN WIND POWER PROJECT

NSA ANGLE POINTS			
POINT	NORTHING	EASTING	ELEVATION DESC.
320	155197.3758	1359107.8185	2145.39 F.P.=218
321	155786.0136	1359449.2811	2147.88 F.P.=220
322	156475.770	1358298.572	0.00 F.P.
323	157084.0020	1360693.1640	0.00 F.P.
324	157578.4004	1360460.4169	2208.41 HTF=213
325	158242.1105	1360781.9636	2178.94 HTF=217
326	158880.7375	1361561.4415	2169.59 F.P.=321
328	158779.2871	1362054.8192	2183.11 F.P.=322
329	158930.3799	1362412.9014	2159.60 F.P.
330	158892.8960	1363299.8930	2157.06 F.P.
331	158587.5010	1363595.9040	0.00 F.P.
332	157941.1650	1364712.0270	0.00 F.P.

TERRESTRIAL CONTROL			
POINT	NORTHING	EASTING	ELEVATION DESC.
1036	155188.1101	1359282.8622	2149.16 HTF
1037	156194.5048	1359704.1646	2170.82 60D
1038	156254.0630	1359931.0461	2171.50 HTF
1039	155375.3181	1359722.9753	2145.42 CONC
1040	156503.6103	1360310.5868	2179.18 HTF
1041	156740.5185	1360468.8729	2203.39 HTF
1042	157041.6328	1360686.4670	2214.20 HTF
1043	157502.3346	1360690.8582	2221.07 HTF
1044	157766.0629	1360432.3766	2210.51 HTF
1045	158119.1085	1360378.5219	2204.99 HTF
1046	158165.9894	1360481.9265	2205.39 HTF
1047	158358.8365	1360505.9421	2218.38 HTF
1048	158405.7206	1360670.9957	2205.30 HTF
1049	158431.3274	1360939.6660	2174.80 HTF
1050	158521.2384	1361073.6023	2157.98 HTF
1052	158442.7083	1361212.8014	2185.62 HTF
1053	158647.3785	1361373.3483	2181.14 HTF
1064	158775.6663	1361477.5127	2177.39 60D
1065	158862.5401	1361611.5989	2175.42 HTF
1066	158822.6024	1361816.2861	2185.78 HTF
1067	158796.2132	1362000.3915	2183.69 HTF
1068	158775.6185	1362392.1230	2168.54 60DWF
1069	158352.8011	1362388.0785	2190.92 60DWF
1070	157717.3503	1362458.5354	2226.78 60D
1071	157683.8663	1361047.3495	2223.33 HTF
1073	155600.7069	1362443.6014	2389.89 HTF
1074	155244.9088	1362393.2096	2411.73 60DWF
1076	155208.6616	1362370.2079	2408.26 60D
1077	156681.6731	1362638.1646	2170.51 HTF
1077	156650.0454	1362976.4731	2179.65 HTF
1078	156907.1338	1363332.6465	2161.76 HTF
1079	156648.3654	1363385.2125	2165.64 HTF
1080	156656.5374	1363566.9671	2156.93 HTF
1081	158406.0080	1363746.6362	2167.14 HTF
1082	158325.3873	1363118.0773	2198.65 HTF

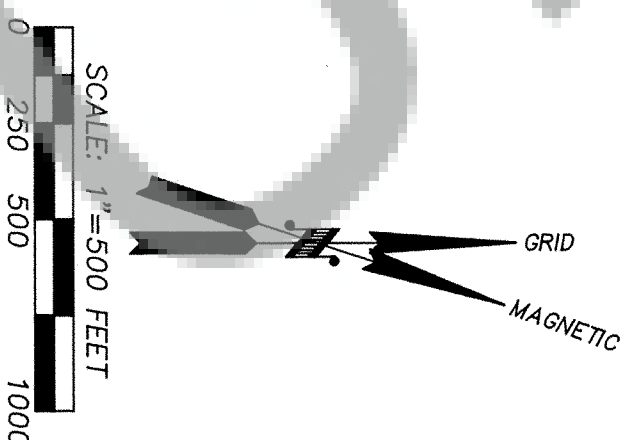
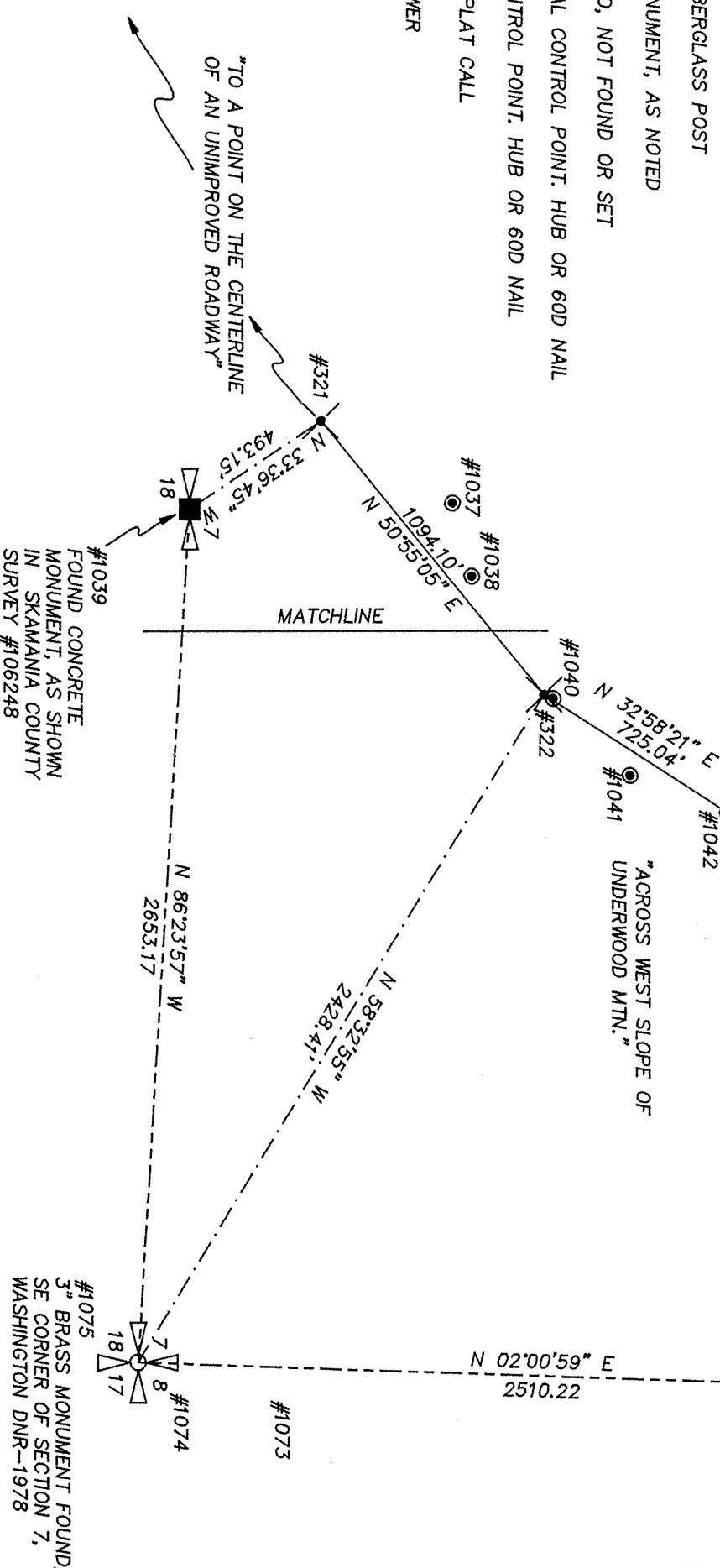
G.P.S. -CONTROL			
POINT	NORTHING	EASTING	ELEVATION DESC.
1003	158711.930	1361111.570	2134.00 HTF
1004	154733.999	1359497.706	2116.43 HTF
G.P.S. -GEODETIC CONTROL			
POINT	NORTHING	EASTING	ELEVATION DESC.
1000	139485.676	1372195.949	336.74' POLDER2

LINE TABLE			
LINE	SEE PAGE 1		
L1-L4	N 67°07'32" E	388.70	
L5			



LEGEND:

- 6 FOOT FIBERGLASS POST
- FOUND MONUMENT, AS NOTED
- CALCULATED, NOT FOUND OR SET
- TERRESTRIAL CONTROL POINT, HUB OR 60D NAIL
- G.P.S. CONTROL POINT, HUB OR 60D NAIL
- DEED OR PLAT CALL
- RADIO TOWER



BASIS OF BEARING:

N.A.D. 83 WASHINGTON SOUTH, GRID BEARINGS
GRID CONVERGENCE -0°47.96' NEAR CENTER OF PROJECT
HORIZONTAL GROUND DISTANCES
MAGNETIC DECLINATION IS 18 1/2° EAST FROM GRID NORTH BY USGS 1994 MAP



TERRA SURVEYING

DATE: DECEMBER 2006 TO AUGUST 2007
SCALE: 1" = 500'
PROJECT: 207005
P.O. BOX 617
HOOD RIVER, OREGON 97031
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E-Mail: terra@terra.net