

SURVEY CONTROL DATA IN QUADRANGLE 190

A 52 (USC&GS, 1934; Unicoi County, Tenn.)

Located about 4.3 miles west along the Erwin-White Rock Highway from Rocky Fork, along State Highway 36, about 5 feet north of the Tennessee-North Carolina State line fence, 18 feet west of the centerline of the highway, and 2 feet west of a fence. A standard disk, stamped "A 52 1934" and set in the top of a concrete post.

ELEVATION: 3106.851 feet or 946.970 meters (C-2)

A 59 (USC&GS, 1934; Madison County, N. C.)

Located about 8.3 miles northeast along State Highway 212 from White Rock, about 2.8 miles southwest of the North Carolina-Tennessee State line, 24 feet east of the centerline of a private road at the toe of a bluff, and 36 feet north of the centerline of the highway. A standard disk, stamped "A 59 1934", and set in the top of a concrete post.

ELEVATION: 2441.954 feet or 744.309 meters (C-2)

A 113 (USC&GS, 1935; Washington County, Tenn.)

Located 1.1 miles west of Telford by railroad, along the Southern Railroad, 155 yards southwest of milepost 39, 42 feet north of "Station 1 Mile" sign, 27.8 feet northeast of intersection of dirt road and north rail, 25.8 feet north of the north rail, level with top of rail. A standard disk, stamped "A 113 1935" and set on top of a concrete post.

ELEVATION: 1529.180 feet or 466.095 meters (C-2)

A 117 (USC&GS, 1935; Greene County, Tenn.)

Located 4.2 miles south of the post office by highway from Chuckey, along the Chuckey to Painter Road, 18 inches northwest of the northwest corner of the Cedar Grove Church, 51.5 feet south of the centerline of the roadway, 3 feet above the surface of the roadway. A standard disk, stamped "A 117 1935" and set on top of a concrete post.

ELEVATION: 1372.799 feet or 418.130 meters (C-2)

A 120 (USC&GS, 1935; Greene County, Tenn.)

Located 0.8 mile south of crossroads at Painter by highway, along Horse Creek Road, on property of John Bad, set in a pasture belonging to John Bad, 36 yards west of point where Horse Creek Road turns to the west, 13 feet north of centerline of roadway, 8.5 feet west of 18-inch apple tree, 6 inches above surface of highway. A standard disk, stamped "A 120 1935" and set on top of concrete post.

ELEVATION: 1598.701 feet or 487.285 meters (C-2)

1389 ASH (USGS, 1902; Washington County, Tenn.)

Located about 0.2 mile west along the Southern Railway from the station at Limestone, at mileage 43.5, at the bridge over Limestone Creek, in the top of the northeast corner of the east concrete retaining wall, and 10 feet north of the centerline of the main track. A USGS standard disk, stamped "1389 ASH".

ELEVATION: 1387.343 feet or 422.863 meters (C-2)

1470 ASH (USGS, 1902; Greene County, Tenn.)

Located about 6.1 miles east along the Southern Railway from Greenville, at Afton, in the brick foundation of the post office, 1 foot north of the southwest corner of the building, and 4 feet above the ground. A USGS standard disk, stamped "1470" and set vertically.

ELEVATION: 1468.813 feet or 447.695 meters (C-2)

1550 ASH (USGS, 1902; Washington County, Tenn.)

Located 150 feet northwest of the station at Telford, in the east wall at the southwest corner of brick store of E. W. King, occupied by J. L. Humphreys. An aluminum tablet, stamped "1550 ASH".

ELEVATION: 1548.39 feet (G-3)

B 52 (USC&GS, 1934; Unicoi County, Tenn.)

Located about 2.2 miles west along the Erwin-White Rock Highway, from Rocky Fork, about 2 miles east of the Tennessee-North Carolina State line, about 200 feet east of the east line of a 2-story frame house, about 110 feet west of a fence corner, 15 feet north of the centerline of the highway, 9 feet east of a gate post, and 1 foot north of a fence. A standard disk, stamped "B 52 1934" set in the top of a concrete post.

ELEVATION: 2681.766 feet or 817.401 meters (C-2)

B 59 (USC&GS, 1934; Madison County, Tenn.)

Located about 9.3 miles northeast along State Highway 212 from White Rock, about 1.9 miles southwest of the North Carolina-Tennessee State line, opposite the Worley Shelton house, and 21 feet east of the centerline of the highway. A standard disk, stamped "B 59 1934" and set in the top of a concrete post.

ELEVATION: 2711.366 feet or 826.426 meters (C-2)

B 113 (USC&GS, 1935; Washington County, Tenn.)

Located 1.1 miles southwest of the post office at Telford, by highway, 45 feet west of the west side of C. J. Greenway's residence, along U. S. Highway 11E, 25 feet east of the centerline of highway, 18 feet south of the centerline of T-road to east, 8.8 feet south of the northwest fence corner, level with surface of highway. A standard disk, stamped "B 113 1935" and set on top of a concrete post.

ELEVATION: 1599.147 feet or 487.421 meters (C-2)

B 117 (USC&GS, 1935; Greene County, Tenn.)

Located 5.1 miles south of the post office at Chuckey, by highway, along county road leading south from Chuckey, in the northeast corner of yard belonging to Glenn Jaynes, 45 yards east of house owned by Glenn Jaynes, 24 feet west of the centerline of roadway, 14 feet west of fence corner, beside hog lot, level with surface of roadway. A standard disk, stamped "B 117 1935" and set on top of a concrete post.

ELEVATION: 1477.300 feet or 450.282 meters (C-2)

B 120 (USC&GS, 1935; Greene County, Tenn.)

Located 1.8 miles southwest of crossroads at Painter, by highway, along the Horse Creek Road, 50 yards east of abandoned quarry, 100 feet east of the west vertex of triangular road intersection and within triangle, 26 feet south of the centerline of gravel road running east and west, at fence line, level with top of surface of the highway. A standard disk, stamped "B 120 1935" and set on top of a concrete post.

ELEVATION: 1646.634 feet or 501.895 meters (C-2)

BIG BUTT (USC&GS, 1893; Madison County, N. C., Unicoi County, Tenn.)

Located on the central one of three high peaks on top of Big Butt

Mountain (known locally as "Gravelly Knob"), about 20 miles southeast of Greenville, 15 miles south of Chuckey on Southern Railway, and on or near North Carolina-Tennessee State line. To reach from Erwin, go south 8.6 miles on U. S. Route 23 to gravel road on right which crosses concrete bridge at stone filling station and store, cross bridge, follow gravel road 4.7 miles to fork, keep straight ahead on right fork, continue 7.0 miles to Mill Creek, follow up creek 1.6 miles to farm of Millard Shelton and end of truck travel. Follow well-worn trail about 2-1/4 miles to top of mountain and about 1-1/4 miles along top to Gravelly Knob and station site. Original station mark was drill hole at intersection of north-and-south and east-and-west grooved lines on large rock flush with the ground. This rock was found dug up in 1930 and station was reestablished with standard disk station mark in drill hole in rock, about 2 feet below surface of ground and probably within several inches of original position. In 1933 large stone, probably original station mark, marked with drill hole and letters "USGS" was found about 4 feet west of present station.

Original reference marks were drill holes and arrows in rock outcrops. Two of these points were re-marked in 1930 with standard reference disks with the arrows pointing toward the station, each wedged in a drill hole in a boulder.

Reference Mark 1: 3.372 meters (11.06 feet) from station in geodetic azimuth 354°37'.

Reference Mark 2: 5.125 meters (16.81 feet) from station in geodetic azimuth 301°56'.

Remaining drill hole, 11.79 feet from station in geodetic azimuth 85°00' could not be found in 1930.

Reference Mark 3: a standard disk reference mark with the arrow pointing toward the station wedged in a drill hole in outcropping bedrock, established in 1933, is on northwest side of trail which leads to most northerly of peaks on top of mountain, and approximately 0.4 mile from station in geodetic azimuth 132°10'26".

GEODETIC POSITION: Lat. = 36°03'40.589"; Long. = 82°37'39.269" (C-1)

To Station	Geodetic Azimuths	Distance	Log. Meters	Miles
Big Knob	189°13'05.12"	9°17'21.52"	4.8314030	42.1
Fork	242 19 30.15	62 35 29.14	4.6610779	28.5
Roan High				
Bluff	265 12 47.33	85 29 48.91	4.6389911	27.1
English	73 48 37.93	253 25 00.05	4.7994659	39.2
Short	125 42 25.93	305 22 51.03	4.7855524	37.9
Camp Creek Fire Tower	62 01 42			5.6
Azimuth Mark, R. M. 3	132 10 26.5			

GRID POSITION (N. C.): X = 927,993.34; Y = 860,770.05 (C-1)

Grid Azimuth (N. C.) to Azimuth Mark, R. M. 3: 134°16'03.9"

GRID POSITION (TENN.): X = 2,996,614.50; Y = 624,799.23 (C-1)

Grid Azimuth (Tenn.) to Azimuth Mark, R. M. 3: 130°11'59"

BIG ROCK (USGS, 1934; Greene County, Tenn., Madison County, N. C.)

Located about 18.6 miles north and 2.7 miles east of Marshall on the Tennessee-North Carolina State line, being on the highest point of Big Butt Mountain. To reach the station from Marshall Post Office, drive west on U. S. 35 and 70, 11.6 miles, turn right on North Carolina No. 208, 3.55 miles, turn right on North Carolina No. 212, 16.25 miles, take second class road up Mill Creek 1.6 miles to home of Mildred Shelton. Leave car here and walk in northerly direction up old road, about 1/2 mile up said road take Forest Service trail to the right, keep this trail to top of mountain and thence with same trail out main level of mountain to station. Station is a Forest Service marker in top of large rock, stamped "BIG ROCK - 1934".

Reference Mark 1: Forest Service Class "A" brass marker in large rock with arrow pointed toward station, S 71° E, 23.78 feet.

Reference Mark 2: Forest Service Class "A" brass marker in large rock with arrow pointed toward station, S 38° E, 19.0 feet.

GEODETIC POSITION: Lat. = 36°03'56.761"; Long. = 82°37'59.333" (G-3)

To Station	Geodetic Azimuths	Distance	Log. Meters	Miles
Carty	181°00'34.0"	1°00'39.2"	4.096211	7.8
Mill	243 47 33.7	63 51 52.4	4.087821	7.6
Big Bald	303 13 30.4	123 18 32.7	4.187360	9.6
GRID POSITION (N. C.):	X = 926,406.9; Y = 862,464.5 (G-3)			
GRID POSITION (TENN.):	X = 2,994,911.9; Y = 626,376.8 (G-3)			
ELEVATION:	4838 feet (T-5)			

BM 51 (USC&GS, 1935; Washington County, Tenn.)

Located about 4.0 miles west of junction of Highways 81 and 107 at Embreeville, along State Highway 107, 39 feet southwest of junction of Highway 107 and Telford Road, 34 feet east of John Sevier Memorial marker, 0.1 mile west of concrete bridge, 19 feet south of the centerline of highway. A spike driven in a 2-foot apple tree, 1 foot below level of highway.

ELEVATION: 1474.748 feet or 449.504 meters (C-2)

C 52 (USC&GS, 1934; Unicoi County, Tenn.)

Located at Rocky Fork, on the Erwin-White Rock Highway, 21 feet south of the northwest corner of a school yard, 14 feet east of the centerline of the highway, and 1 foot east of a fence. A standard disk, stamped "C 52 1934" and set in the top of a concrete post.

ELEVATION: 2155.242 feet or 656.919 meters (C-2)

C 59 (USC&GS, 1934; Madison County, N. C.)

Located about 10.4 miles northeast along State Highway 212 from White Rock, about 0.8 mile southwest of the North Carolina-Tennessee State line, about 6 feet west of the west line of the Corbett Shelton log cabin, and about 30 feet north of the centerline of the highway. A standard disk, stamped "C 59 1934" and set in the top of a concrete post.

ELEVATION: 2975.463 feet or 906.923 meters (C-2)

C 113 (USC&GS, 1935; Washington County, Tenn.)

Located 2.1 miles southwest of the post office by highway, from Telford, on U. S. Highway 11 E, set in east end of southwest retaining wall of concrete bridge over a small creek, 35 yards south of the entrance of J. F. Copp's home, 25 feet north of power pole No. 145, 10 feet west of centerline of the highway, level with surface of highway. A standard disk, stamped "C 113 1935".

ELEVATION: 1508.632 feet or 459.832 meters (C-2)

C 117 (USC&GS, 1935; Greene County, Tenn.)

Located 2.6 miles north of crossroads at Painter, by highway, and 24

with No. 208, turn on No. 208, and go 3.6 miles, turn right on No. 212, go 6-1/2 miles to Rock Branch, turn left go 0.9 mile, leave car and follow government trail northerly about 1 mile to gap, thence westerly along ridge to the top of mountain and station. Station is a drill hole in rock set in place directly under signal in 22-inch Hickory.

GEODETIC POSITION: Lat. = 36°00'48.979"; Long. = 82°40'38.717" (G-3)

To Station	Geodetic Azimuths	Distance	Log. Meters	Miles
Rich	50°13'25.9" 230°08'55.9"		4.175942	9.3
Camp Creek Sta.	107°27'17.8" 287°25'57.2"		3.555916	2.2
Sugar	301°42'53.2" 121°45'18.9"		3.863259	4.5

GRID POSITION (N. C.): X = 912,626.9; Y = 843,971.4 (G-3)

GRID POSITION (TENN.): X = 2,982,478.6; Y = 606,953.0 (G-3)

ELEVATION: 3766 feet (T-5)

LR 207 (TVA, 1938; Unicoi County, Tenn.)

To reach from Erwin, drive south on Highway 19 W, 9.1 miles, turn right at Gulf Milling Station, crossing creek on concrete bridge, follow gravel road along left bank of creek 2.2 miles, turn right at gravel road near large boulder, follow gravel road up very steep grade, 0.5 mile to farm house where road turns sharp to right, leave car, follow trail to saddle, turn left going up drain, approximately 700 feet to extreme top of ridge at northeast corner of cornfield, go southwest 222 feet, 20 feet southwest of field, on comb of ridge, 100 feet south from south corner of woods, 30 feet north of clump of bushes. Station is a 1- by 1-inch angle iron, stamped "TVA LR 207 1938".

Reference Mark 1: 42.8 feet N 65° E to 18-inch chestnut.

Reference Mark 2: 26.1 feet S 10° W to 3-inch locust.

GRID POSITION (TENN.): X = 3,024,161.2; Y = 624,852.1 (T-4)

ELEVATION: 2527 feet (T-5)

LR 227 (TVA, 1938; Washington County, Tenn.)

To reach from the Post Office at Erwin, Tennessee, drive north on Highway 19 W and 23, 0.1 mile, turn left on Highway 81, go 7.2 miles, turn left on Highway 107, newly oiled road, go 2.8 miles to intersection of cross-roads, 15 feet east of north and south road, and 25 feet south of east and west road, 8 feet south of three mail boxes on top of small ridge thrown up from ditch line. Station is a 1- by 1-inch angle iron, stamped "TVA LR 227 1938".

Reference Mark 1: 8.05 feet N 15° W to mail box post.

Reference Mark 2: 22.65 feet East to fence post.

Reference Mark 3: 15.56 feet S 10° E to corner fence post.

GRID POSITION (TENN.): X = 3,030,562.6; Y = 670,186.2 (T-4)

ELEVATION: 1518 feet (T-5)

LR 242 (TVA, 1938; Washington County, Tenn.)

To reach from the Post Office at Erwin, Tennessee, drive north on Highway 19 W and 23, 0.1 mile, turn left on Highway 81, go 5.2 miles to intersection of gravel road, turn left on gravel road through Embreeville, go 3.8 miles to Y in roads at creek, take right hand fork, go 0.4 mile to newly built bin for ore at mouth of small ore mine tunnel. Leave car, go N 20° W to extreme top of ridge, about 2000 feet. Station is on highest point of small knoll, 20 feet east of twin 10-inch oak, directly up hill from ore mine, at intersection of ridge and spur ridge to mines. Top of ridge is almost clear except for three pines and two oaks. Station is 1- by 1-inch angle iron, stamped "TVA LR 242 1938".

Reference Mark 1: 2.55 feet S 60° E to 6-inch pine.

Reference Mark 2: 11.18 feet S 12° W to 12-inch oak.

GRID POSITION (TENN.): X = 3,029,869.0; Y = 660,611.1 (T-4)

ELEVATION: 2823 feet (T-5)

LR 243 (TVA, 1938; Washington County, Tenn.)

To reach from Erwin, Tennessee, Post Office, drive north on Highway 19 W and 23, 0.1 mile, turn left on Highway 81, go 7.8 miles, turn left on gravel road No. 501, go 0.8 mile, turn right on Washington County Highway 503, go 0.6 mile to store, turn left, crossing bridge, go 0.5 mile to the centerline intersection of crossroads. From the centerline intersection of roads, point is S 45° W 28 feet, and 1 foot west of wire fence line in field. Station is a 1- by 1-inch angle iron, stamped "TVA LR 243 1938".

Reference Mark 1: 7.56 feet N 30° E to corner fence post.

Reference Mark 2: 12.25 feet N 30° W to fence post.

Reference Mark 3: 4.60 feet South to fence post.

GRID POSITION (TENN.): X = 3,031,952.7; Y = 680,052.5 (T-4)

ELEVATION: 1635 feet (T-5)

LR 244 (TVA, 1938; Washington County, Tenn.)

To reach from Erwin, Tennessee, Post Office, go 0.1 mile north on Highway 19 W and 23, turn left on Highway 81, go 12.3 miles, turn left on gravel road, go 0.1 mile, turn left go 0.9 mile, turn right go 0.3 mile, turn left go 0.5 mile to farm house in Y in roads, 35 feet southwest of the centerline intersection of roads and 1 foot east of base of pear tree in yard, driven flush with the ground, 10 feet west of two mail boxes along the side of road 10 feet northeast from the northeast corner of house. Station is a 1- by 1-inch angle iron, stamped "TVA LR 244 1938".

GRID POSITION (TENN.): X = 3,031,203.8; Y = 691,958.4 (T-4)

ELEVATION: 1728 feet (T-5)

LR 310 (TVA, 1938; Greene County, Tenn.)

To reach from Erwin, Tennessee, drive north on Highway 23 and 19 W, go 0.1 mile, turn left on Highway 81, go 7.2 miles, turn left on Highway 107 go 17.6 miles, turn left go 4.0 miles to gravel road, turn right, go 1.5 miles to small village of Greystone, go about 100 feet beyond log church, leave car, walk northwest to right, about 300 feet to 18-inch dead chestnut tree, about 50 feet high, at the base of tree on top of small rise, 200 feet northwest from northwest corner of log church. Station is a 1- by 1-inch angle iron, stamped "TVA LR 310 1938".

GRID POSITION (TENN.): X = 2,972,804.4; Y = 638,889.1 (T-4)

ELEVATION: 1613 feet (T-5)

LR 311 (TVA, 1938; Greene County, Tenn.)

To reach from Erwin, Tennessee, drive north on Highway 23 and 19 W, go 0.1 mile, turn left on Highway 81, go 7.2 miles, turn left on Highway 107 go 17.6 miles, turn left go 4.0 miles to gravel road, turn right and drive 0.35 mile to west edge of woods line. Proceed some 150 yards to field road to north, drive along same through south edge of field to end of road at the northwest corner of woods and fence line west, leave car and climb to high point on ridge clearly visible to northeast, on high point of ridge driven 6 inches above ground in fence corner. Station is a 1- by 1-inch angle iron stamped "LR 311".

Reference Mark 1: 11.35 feet North to fence post.

Reference Mark 2: 8.40 feet N 85° E to fence post.

GRID POSITION (TENN.): X = 2,975,939.6; Y = 613,236.6 (T-4)

ELEVATION: 1711 feet (T-5)

LR 312 (TVA, 1938; Greene County, Tenn.)

To reach from Erwin, drive west on Highway 19 W 0.1 miles, turn left on Highway 81, go 7.2 miles, turn left on Highway 107, go 17.2 miles, turn left, go 1.9 miles to small farm road going left. After crossing bridge follow old field road up steep grade along south side of tobacco patch to first fence corner, turn left at fence corner, go 150 feet to intersection of fence and field road, in centerline of intersection, flush with ground. Station is a 1- by 1-inch angle iron, stamped "TVA LR 312 1938".

Reference Mark 1: 5.7 feet N 20° E to 4-inch sassafras stump.

Reference Mark 2: 9.8 feet N 35° W to 4-inch wild cherry.

Reference Mark 3: 6.1 feet S 35° E to south gate post.

GRID POSITION (TENN.): X = 2,974,528.7; Y = 650,321.1 (T-4)

ELEVATION: 1536 feet (T-5)

LR 316 (TVA, 1938; Madison County, N. C.)

To reach from Marshall, North Carolina, drive west on Highway 25 11.5 miles, turn right on Highway 208, go 3.6 miles, turn right on Highway 212 gravel road, go 1.2 miles to T gravel road, turn left on gravel road, go 1.5 miles, turn left at gate and farm road up hollow, continue on said road 0.3 mile. Leave car at old farm house, go south up hollow to top of ridge about 1200 feet, turn left when on ridge going about 200 feet to large rock outcrop at top of steep slope and 75 feet southeast of angle in ridge line, 40 feet southeast of tall evergreen tree on lone bald spot on ridge. Station is a 1- by 1-inch angle iron, stamped "TVA LR 316 1938".

GEODETIC POSITION: Lat. = 36°01'31.29"; Long. = 82°37'29.40" (T-4)

GRID POSITION (N. C.): X = 928,326.4; Y = 817,685.1 (T-4)

GRID POSITION (TENN.): X = 2,997,875.0; Y = 611,771.0 (T-4)

ELEVATION: 3462 feet (T-5)

M 59 (US&GS, 1934; Greene County, Tenn.)

Located about 1.9 miles west along the Southern Railway from the station at Limestone, at mileage 45.2, about 18 feet west of the center of a crossing, about 20 feet east of a pole, about 21 feet south of the centerline of the main track, and 2 feet north of a fence. A standard disk, stamped "M 59 1934" and set in the top of a concrete post.

ELEVATION: 1496.217 feet or 456.048 meters (G-2)

M 100 (US&GS, 1935; Washington County, Tenn.)

Located 0.3 mile northeast of the Post Office at Limestone, on Washington County Highway No. 504, 36.3 feet southwest of the southwest corner of the home of C. C. Jaynes, 21.4 feet southeast of the center of highway, 6 inches above highway surface. A standard disk, stamped "M 100 1935" and set vertically on limestone ledge.

ELEVATION: 1386.615 feet or 422.641 meters (G-2)

M 115 (US&GS, 1935; Greene County, Tenn.)

Located 4.3 miles east of highway intersection at Whig, in the vicinity of Greystone, along the Whig to Painter Highway, 0.2 mile west of log church 90 yards south of the home of Bruce Hasley, 30 yards north of the north corner of Greystone School house, 43 feet south of the centerline of the highway, 27 feet west of a 30-inch walnut tree, on level of highway and 3 inches above the level of the ground. A standard disk, stamped "M 115 1935" and set on top of a concrete post.

ELEVATION: 1579.705 feet or 481.495 meters (G-2)

ME 243 (TVA, 1938; Washington County, Tenn.)

To reach from Limestone, Tennessee, drive southeast 1.5 miles along Highway 11 E to T-farm road south, turn right along farm road, go south 0.2 mile, park car, walk about 600 feet south to top of clean knoll and station, which is in center of round top knoll and driven flush with the ground. The station is a 1- by 1-inch angle iron.

GRID POSITION (TENN.): X = 2,998,530.6; Y = 677,862.3 (T-4)

ELEVATION: 1634 feet (T-5)

ME 246 (TVA, 1938; Washington County, Tenn.)

To reach from Limestone, go south along county road down left bank of Limestone Creek 0.8 mile to house on left, in southeast corner of T-road intersection to barn. Station is a 1- by 1-inch angle iron.

Reference Mark 1: 17.6 feet Southeast to 12-inch walnut.

Reference Mark 2: 26.0 feet N 30° W to centerline T-road intersection.

GRID POSITION (TENN.): X = 2,990,462.7; Y = 680,702.8 (T-4)

ELEVATION: 1446 feet (T-5)

ME 247 (TVA, 1938; Washington County, Tenn.)

To reach from Limestone, Tennessee, go southeast along Highway 11 E 0.3 mile to transmission line, walk along fence in a southwesterly direction about 450 feet to fence intersection and station, 23.2 feet southwest from lone cedar in fence intersection. Station is a 1- by 1-inch angle iron.

GRID POSITION (TENN.): X = 2,994,552.7; Y = 682,419.7 (T-4)

ELEVATION: 1484 feet (T-5)

ME 248 (TVA, 1938; Washington County, Tenn.)

To reach from Limestone, Tennessee, go 1.4 miles southwest along county road down Limestone Creek to intersection, take left, go east 0.6 mile to intersection, go right 0.8 mile to Glaze Bridge over Nolichucky River, go right 0.8 mile to road fork, take left, go south 0.6 mile to T-road west, park car, walk northeast along fence line to corner of woods and station. Station is a 1- by 1-inch angle iron.

Reference Mark 1: 9.65 feet North to 6-inch oak.

Reference Mark 2: 3.4 feet East to fence line.

Reference Mark 3: 24.0 feet West to 21-inch oak.

GRID POSITION (TENN.): X = 2,990,469.3; Y = 669,817.4 (T-4)

ELEVATION: 1509 feet (T-5)

ME 249 (TVA, 1938; Greene County, Tenn.)

To reach from Limestone, Tennessee, go 1.4 miles southwest along county road down left bank of Limestone Creek to road intersection, take left go 0.6 mile to road intersection, go right 0.8 mile to Glaze Bridge over Nolichucky River, go right 0.8 mile to forks, take left, go 0.3 mile to fence line west, walk along fence west about 600 feet to fence line north, walk north along fence 234 feet to station. Station is a 1- by 1-inch angle iron.

Reference Mark 1: 3.3 feet S 67° W to fence post.

Reference Mark 2: 4.2 feet N 48° W to fence post.

GRID POSITION (TENN.): X = 2,988,968.2; Y = 670,612.0 (T-4)
ELEVATION: 1492 feet (T-5)

ME 250 (TVA, 1938; Washington County, Tenn.)

To reach from Limestone, Tennessee, go 1.4 miles southwest along county road down left bank of Limestone Creek to road intersection, take left, go 0.6 mile to road intersection, take left, go 0.3 mile to T-road south, go south along T-road 0.5 mile to right angle bend to right, continue around bend 800 feet, park car, walk east to large lone pine and station. Station is a 1- by 1-inch angle iron, 3 feet east of 30-inch pine.
GRID POSITION (TENN.): X = 2,995,439.8; Y = 674,325.6 (T-4)
ELEVATION: 1470 feet (T-5)

ME 251 (TVA, 1938; Washington County, Tenn.)

To reach from Philadelphia, Tennessee, go 1.6 miles northeast along county road to house on right, continue along same road about 600 feet to fence line leading southeast to river, 38.5 feet S 50° W from intersection of east edge of road and fence, 8 feet east of centerline of road in east shoulder of road, driven flush with ground. Station is a 1- by 1-inch angle iron.
GRID POSITION (TENN.): X = 2,998,236.0; Y = 670,248.4 (T-4)
ELEVATION: 1440 feet (T-5)

ME 253 (TVA, 1938; Unicoi County, Tenn.)

To reach station from Erwin, Tennessee, drive northwest along Highway 81, 6 miles to intersection with John Sevier Highway, turn left follow John Sevier Highway 8.0 miles southwest to Mt. Carmel School at mouth of Painter Hollow, turn left up Painter Creek 2.8 miles to mouth of Hell Hollow, park car, walk up ridge between Hell Hollow and Big Sugar Hollow, 1.0 mile to top of Sampson Mountain, walk southwest down top of mountain about 400 feet to station. Station is a 1- by 1-inch angle iron.
Reference Mark 1: 8.3 feet N 49° E to 6-inch black oak.
Reference Mark 2: 11.1 feet N 85° E to 12-inch blazed pine.
GRID POSITION (TENN.): X = 3,010,232.1; Y = 639,138.5 (T-4)
ELEVATION: 3593 feet (T-5)

ME 254 (TVA, 1938; Unicoi County, Tenn.)

To reach from Erwin, drive southwest 7.5 miles along Highway 19 W to Ernestville, take right across creek 1.3 miles to road fork, take right, go up hollow 1.0 mile to small log house. Park car, walk up trail along narrow ridge 1.0 mile, northwest, to top of Higgins Ridge and station. 10 feet east of the centerline of trail and 96 feet north of high point on ridge. Station is a 1- by 1-inch angle iron.
Reference Mark 1: 4.6 feet S 60° E to 10-inch pine.
Reference Mark 2: 98 feet S 10° W to lone dead pine.
GRID POSITION (TENN.): X = 3,019,123.0; Y = 630,324.0 (T-4)
ELEVATION: 4228 feet (T-5)

ME 255 (TVA, 1938; Unicoi County, Tenn.)

To reach from Erwin, drive northwest 7.0 miles along Highway 81 to intersection of Highway 81 and John Sevier Highway 107, turn left along Highway 107, go 5.0 miles to Clark Creek, turn left up Clark Creek, go 2.0 miles. Park car, walk 1.2 miles to mouth of Still Branch, walk 1500 feet south up ridge between Still Branch and Clark Creek to top of ridge and station. The station is a 1- by 1-inch angle iron.
Reference Mark 1: 7.8 feet N 20° W to 6-inch oak.
Reference Mark 2: 19.1 feet West to 12-inch pine.
GRID POSITION (TENN.): X = 3,023,708.3; Y = 648,379.6 (T-4)
ELEVATION: 2578 feet (T-5)

ME 256 (TVA, 1938; Greene County, Tenn.)

To reach from Chuckey, Tennessee, drive south along county road 2.0 miles to small house on left of road at BM Y 116, park car, walk west along fence line about 600 feet to T-fence north, continue along fence west 106 feet to station. Station is a 1- by 1-inch angle iron.
Reference Mark 1: 10.3 feet S 65° W to fence post.
Reference Mark 2: 106.8 feet S 65° E to T-fence intersection.
GRID POSITION (TENN.): X = 2,978,399.3; Y = 670,935.3 (T-4)
ELEVATION: 1460 feet (T-5)

ME 257 (TVA, 1938; Unicoi County, Tenn.)

To reach from Erwin, Tennessee, drive northwest along Highway 81, 5.0 miles to intersection of Highway 81 with county road leading up Cove Creek to Embree Iron Mines, take left, go 4.5 miles up hollow to mouth of Big Moccasin Creek. Park car, walk up said creek 1.0 mile to falls at slight hollow to right, take right, go up hollow 300 feet, turn right and continue to top of ridge and station. Station is a 1- by 1-inch angle iron.
Reference Mark 1: 8.1 feet N 45° W to 6-inch oak.
Reference Mark 2: 10.1 feet S 15° E to 8-inch pine.
GRID POSITION (TENN.): X = 3,029,876.7; Y = 650,089.1 (T-4)
ELEVATION: 3107 feet (T-5)

ME 258 (TVA, 1938; Greene County, Tenn.)

To reach from Chuckey, Tennessee, drive north 0.6 mile to colored school, park car, walk 1000 feet west to top of ridge and station. Station is a 1- by 1-inch angle iron.
Reference Mark 1: 45.5 feet S 61° E to 7-inch black locust.
Reference Mark 2: 20 feet East to centerline ridge.
GRID POSITION (TENN.): X = 2,976,501.5; Y = 682,443.7 (T-4)
ELEVATION: 1629 feet (T-5)

ME 259 (TVA, 1938; Greene County, Tenn.)

To reach from Chuckey, Tennessee, drive south along county road 3.6 miles to T-road west, turn right go 0.6 mile to farm road south, turn left along farm road, up creek past Norton's Spring to first house on the right. Park car, walk about 800 feet east up hill and along fence to T-fence intersection and station. Station is a 1- by 1-inch angle iron.
Reference Mark 1: 6.15 feet N 48° 30' E to 15-inch walnut.
Reference Mark 2: 12.20 feet S 12° 00' E to 12-inch walnut.
GRID POSITION (TENN.): X = 2,977,962.2; Y = 659,095.3 (T-4)
ELEVATION: 1428 feet (T-5)

ME 260 (TVA, 1938; Greene County, Tenn.)

To reach from Tusculum, drive southeast along Highway 107 to county road northwest, take right, go along county road 0.6 mile to creek and small mill, take left along private road, pass house, continue into barn lot, go through gate to left and continue along left-hand trail to top of hill at gap.

Station is a 1- by 1-inch angle iron, about 150 feet N 50° W from the top of hill.

Reference Mark 1: 51.0 feet N 7° E to T-fence intersection.
Reference Mark 2: 41.1 feet N 76° E to nail in fence post.
Reference Mark 3: 53.8 feet N 85° W to nail in fence post.
GRID POSITION (TENN.): X = 2,962,354.2; Y = 656,974.5 (T-4)
Grid Azimuth to ME 261 (distance 770.3 feet): 332° 11'
ELEVATION: 1442.4 feet (T-4)

ME 261 (TVA, 1938; Greene County, Tenn.)

Located about 800 feet S 25° E from ME 260, in fence line on top of knoll, 192 feet west from fence corner. Station is 1- by 1-inch angle iron.
Reference Mark 1: 5.1 feet West to nail in fence post.
Reference Mark 2: 8.3 feet East to nail in fence post.
GRID POSITION (TENN.): X = 2,962,713.7; Y = 656,293.2 (T-4)
Grid Azimuth to ME 260 (distance 770.3 feet): 152° 11'
ELEVATION: 1425.2 feet (T-4)

ME 261 C (TVA, 1938; Greene County, Tenn.)

Located on the right bank of the Nolichucky River, 1/4 mile downstream from Brown Bridge on Highway 107, 50 feet from river, 5 feet inside woods. A 1- by 1-inch angle iron.

Reference Mark 1: 2.8 feet North to 12-inch black oak.
Reference Mark 2: 13.7 feet West to 10-inch black oak.
GRID POSITION (TENN.): X = 2,963,038.4; Y = 655,515.2 (T-4)
Grid Azimuth to ME 261 D (distance 349.7 feet): 337° 21'
ELEVATION: 1298.3 feet (T-4)

ME 261 D (TVA, 1938; Greene County, Tenn.)

Located on left bank of Nolichucky River, 1/4 mile downstream from Brown Bridge, 60 feet from river's edge, on wood edge. A 1- by 1-inch angle iron.
Reference Mark 1: 12.7 feet West to locust tree.
Reference Mark 2: 4.2 feet Northeast to 15-inch locust.
GRID POSITION (TENN.): X = 2,963,173.0; Y = 655,192.5 (T-4)
Grid Azimuth to ME 261 C (distance 349.7 feet): 157° 21'
ELEVATION: 1287.9 feet (T-4)

ME 261 G (TVA, 1938; Greene County, Tenn.)

Located on the left bank of Nolichucky River, 1600 feet from the river, 560 feet south of farm road, in fence line, 1000 feet southwest of a large barn. A 1- by 1-inch angle iron.
Reference Mark 1: 7.90 feet East to fence post.
Reference Mark 2: 8.00 feet West to fence post.
GRID POSITION (TENN.): X = 2,963,721.0; Y = 654,389.8 (T-4)

ME 262 (TVA, 1938; Greene County, Tenn.)

To reach from Tusculum, go southeast along Highway 107 3.0 miles to road forks, take right up creek along county road for 2.0 miles to road south and boundary of Cherokee National Forest, take right, go 0.3 mile south to top of hill, park car, walk about 800 feet east to top of high knoll and the station. A 1- by 1-inch angle iron.
Reference Mark 1: 165 feet S 28° W to T-fence intersection.
Reference Mark 2: 4.4 feet North to fence post.
Reference Mark 3: 9.2 feet N 45° E to fence post.
GRID POSITION (TENN.): X = 2,971,488.4; Y = 648,671.4 (T-4)
ELEVATION: 1530 feet (T-5)

ME 263 (TVA, 1938; Washington County, Tenn.)

To reach from Erwin, Tennessee, drive northwest 7.0 miles along Highway 81 to intersection of Highway 81 and John Sevier Highway 107, turn left along Highway 107, go 7.0 miles southwest to Roaring Creek, turn left up creek and go 1.2 miles to old saw mill site. Park car, walk up hollow to left 0.8 mile to saddle, turn north along ridge line about 400 feet to high top and station. A 1- by 1-inch angle iron.
Reference Mark 1: 26.6 feet S 85° E to 8-inch pine.
Reference Mark 2: 9.6 feet N 15° E to 3-inch pine.
GRID POSITION (TENN.): X = 3,017,621.6; Y = 651,229.3 (T-4)
ELEVATION: 3037 feet (T-5)

ME 264 (TVA, 1938; Greene County, Tenn.)

To reach from Tusculum, go south along county road for 0.7 mile to road fork, turn left, go east 0.7 mile to road intersection, turn right, go south 0.4 mile to T-road west, turn on road along T-road west, go 0.2 mile to first house on left at top of hill, on the north side of road at farm road entrance to field. A 1- by 1-inch angle iron.
Reference Mark 1: 2.0 feet East to west gate post.
Reference Mark 2: 30.0 feet Southeast to centerline intersection farm road and county road.
GRID POSITION (TENN.): X = 2,959,320.5; Y = 658,812.5 (T-4)
ELEVATION: 1423 feet (T-5)

MILL (USGS, 1934; Unicoi County, Tenn.)

Located on heavily wooded top locally known as Rich Mountain, about 5-1/2 miles west and south of Erwin, Tennessee, and about 2.3 miles northwest of junction of Mill Creek and Indian Creek. To reach from Erwin, Tennessee, drive west on Route 23, 6-1/2 miles to Shallowford Church, turn right on gravel road, go 1.6 miles to home of P. S. Masters, leave car, follow wagon road to gap, thence easterly along trail to station. Station is a standard tablet cemented in rock, set in place 2 inches above the surface of the ground, and stamped "MILL 1934".

Reference Mark 1: 18.55 feet N 86° W
Reference Mark 2: 17.1 feet N 01° E
Reference Mark 3: 21.75 feet S 68° E
GEODETIC POSITION: Lat. = 36° 06' 51.932"; Long. = 82° 30' 40.193" (G-3)
Distance
To Station Azimuth Back Azimuth Log. Meters Miles
Carty 123° 22' 46.4" 303° 18' 32.6" 4.109844 8.0
Ember 201° 47' 48.9" 21° 49' 00.7" 3.913295 5.1
GRID POSITION (TENN.): X = 3,030,311.9; Y = 645,340.7 (G-3)
ELEVATION: 3862 feet (T-5)

ME 143 (TVA, 1938; Washington County, Tenn.)

Located at Telford, Tennessee. To reach from the steel railroad trestle at Telford, walk west 941 feet from the east end of trestle turn and walk S 43° W from railroad track across creek, then across U. S. Highway 11 E, up steep grass slope past southwest corner of woods plot to brow of grass ridge, a total of 1075 feet from the railroad track. A 1- by 1-inch angle iron, stamped "MS 143 and driven flush with the ground.
Reference Mark 1: 43.7 feet S 62° W to 14-inch locust.

Reference Mark 2: 50.1 feet S 25° W to locust fence post.
 GRID POSITION (TENN.): X = 3,017,659.8; Y = 692,159.6 (T-4)
 ELEVATION: 1661 feet (T-5)

MS 145 (TVA, 1938; Washington County, Tenn.)

Located 3.2 miles southeast of Telford by road. To reach from Telford, drive southeast 2.6 miles to New Victory, proceed further southeast 0.6 mile, here to northeast side of road, plainly to be seen, is very high grassy knob, climb to top of grassy knob and station. A 1- by 1-inch angle iron stamped "MS 145", driven to protrude 4 inches above the ground.
 GRID POSITION (TENN.): X = 3,029,693.7; Y = 686,181.4 (T-4)
 ELEVATION: 1832 feet (T-5)

MS 146 (TVA, 1938; Washington County, Tenn.)

Located 6.5 miles southeast of Telford by road. To reach from Telford, drive southeast 2.6 miles to New Victory, turn south at T-road south, and proceed 2.0 miles to crossroads, turn southeast and go 0.15 mile to Y-road intersection, turn northeast and go 1.75 miles to side road leading north at bend in main county road, take side road and drive in northwesterly direction along south side of wood 0.4 mile to farm house, climb to top of grass ridge to northwest of house, some 1000 feet. A 1- by 1-inch angle iron on grass slope, stamped "MS 146".
 Reference Mark 1: 49.45 feet S 9° E to fence post.
 Reference Mark 2: 46.05 feet N 85° E to fence post.
 GRID POSITION (TENN.): X = 3,027,988.4; Y = 681,332.5 (T-4)
 ELEVATION: 1814 feet (T-5)

MS 150 (TVA, 1938; Washington County, Tenn.)

Located 3 miles south of Telford. To reach from Jonesboro, Tennessee drive southwest of Highway 11 E 3.3 miles to road junction, drive south on T-road south 1.85 miles to T-road intersection, turn right and drive west 1.15 miles to T-road south, drive south 1.3 miles to T-road west, turn west and go 0.5 mile to farmhouse on south side of road. Walk back of house some 400 feet to a north-south fence line on the east side of fence on grass slope to drain and angle iron. A 1- by 1-inch angle iron.
 Reference Mark 1: 19.65 feet N 18° W to fence post.
 Reference Mark 2: 11.35 feet S 45° W to fence post.
 GRID POSITION (TENN.): X = 3,017,506.1; Y = 681,519.8 (T-4)
 ELEVATION: 1653 feet (T-5)

MS 155 (TVA, 1938; Washington County, Tenn.)

To reach from Tusculum, drive southeast on Highway 107, 8.8 miles to the Greene-Washington County line, at bend in road, and proceed 1.2 miles further east to top of vertical curve on gravel highway 10 feet north of north edge of highway on 8-foot out road bank, in south edge of patch. A 1- by 1-inch angle iron, stamped "MS 155".
 Reference Mark 1: 67.50 feet S 31° W to fence post.
 Reference Mark 2: 69.90 feet S 21° E to fence post.
 GRID POSITION (TENN.): X = 2,995,951.5; Y = 660,051.1 (T-4)
 ELEVATION: 1520 feet (T-5)

MS 157 (TVA, 1938; Washington County, Tenn.)

To reach from Jackson Bridge across the Nolichucky River at Jackson Island, drive southeast 0.4 mile to John Sevier Highway, turn west, drive 3.6 miles to T-dirt road south, turn south and drive 0.5 mile to north edge of woods, leave car and climb to top of ridge to southeast, here on highest point of top of ridge is station. A 1- by 1-inch angle iron, stamped "MS 157".
 GRID POSITION (TENN.): X = 3,011,668.2; Y = 650,677.5 (T-4)
 ELEVATION: 2780 feet (T-5)

MS 158 (TVA, 1938; Washington County, Tenn.)

To reach from Jackson's Bridge across Nolichucky River at Jackson Island, drive southeast 0.4 mile to John Sevier Highway, turn west, drive 3.6 miles to T-dirt road south, turn south and drive 0.5 mile to north edge of woods. Leave car and climb to top of ridge to southeast some 0.9 mile, walk from this point southwest around U-shaped top of ridge to double top, that is, highest point on ridge. It is approximately a 0.5 mile walk around top of U-shaped ridge. A 1- by 1-inch angle iron, stamped "MS 158" on the highest point on west top of double topped ridge.
 GRID POSITION (TENN.): X = 3,010,423.9; Y = 648,214.6 (T-4)
 ELEVATION: 3146 feet (T-5)

MS 159 (TVA, 1938; Washington County, Tenn.)

To reach from Tusculum, take Highway 107 SE out of Tusculum, go 13.3 miles across Brown's Bridge and to point where bend in Nolichucky River and bend in Highway 107 almost intersect. Proceed from this point 1.0 mile to T-farm road northwest, drive along this road across drain through gap in fence to top of grass knoll at point where hay stacks stand on bank of drain some 1500 feet in all. A 1- by 1-inch angle iron, stamped "MS 159", driven 6 inches above ground on grass slope.
 Reference Mark 1: 46.50 feet N 20° E to fence post.
 Reference Mark 2: 49.05 feet S 80° E to fence post.
 GRID POSITION (TENN.): X = 3,015,132.6; Y = 662,158.8 (T-4)
 ELEVATION: 1464 feet (T-5)

MS 161 (TVA, 1938; Washington County, Tenn.)

To reach from Tusculum, Tennessee, drive southeast on Highway 107, 8.8 miles to county line of Greene-Washington Counties at T-dirt farm road to barn. Here at said intersection of farm road and Highway 107 is station, in southwest fence corner, 18 feet north of centerline of Highway 107. A 1- by 1-inch angle iron, stamped "MS 161".
 Reference Mark 1: 4.22 feet East to fence post.
 Reference Mark 2: 3.55 feet S 25° W to corner fence post.
 GRID POSITION (TENN.): X = 2,989,789.1; Y = 660,256.5 (T-4)
 ELEVATION: 1513 feet (T-5)

MS 162 (TVA, 1938; Unicoi County, Tenn.)

To reach from Erwin, Tennessee, drive 6 miles southwest along paved highway to Temple Hill School, proceed 1.2 miles further to T-road northwest at bridge across creek, turn northwest and drive 0.7 mile up Higgins Creek Road to point where road becomes impassable. Proceed on foot 2.5 miles further along old road to U-fork of trail, take northwest fork and climb to top of ridge and turn north on trail and proceed through saddle. At this point, leave trail and climb to top of ridge just north of said saddle. (Trail mentioned goes around the east side of ridge). Once on top of ridge, walk west down along the centerline, 190 feet. A 1- by 1-inch angle iron, stamped "MS 162".
 Reference Mark 1: 10.45 feet S 62° E to 3/8-inch leaning oak.
 Reference Mark 2: 8.60 feet S 25° W to 3-inch oak.
 Reference Mark 3: 9.00 feet N 60° W to 3-inch red oak.

GRID POSITION (TENN.): X = 3,020,142.4; Y = 638,735.3 (T-4)
 ELEVATION: 3526 feet (T-5)

MS 163 (TVA, 1938; Greene County, Tenn.)

Located about 1 mile north of the Tennessee-North Carolina State line. To reach from Hampton Spring Crossroads, drive southwest 1.3 miles to Greystone, thence 0.4 mile further to intersection of creek and road at point where T-road south, turn south and go 0.4 mile to Y-intersection. Keep to right and proceed 3.5 miles along mountain road to dead end at foot of mountain ridge. Leave car and take trail marked "State Line Trail", climb to top of ridge, walk to second top from this point, going through two saddles. Said top is highest point passed during climb; point is on top of ridge, 25 feet west of trail.
 A 1- by 1-inch angle iron, stamped "MS 163".
 Reference Mark 1: 7.80 feet N 15° E to 2-inch sumac.
 Reference Mark 2: 4.35 feet S 40° E to 2-inch birch.
 Reference Mark 3: 4.70 feet S 65° W to 2-inch oak.
 GEODETIC POSITION: Lat. = 36° 03' 41.21"; Long. = 82° 40' 33.88" (T-4)
 GRID POSITION (N. C.): X = 913,669.2; Y = 861,363.0 (T-4)
 GRID POSITION (TENN.): X = 2,982,241.6; Y = 624,374.6 (T-4)
 ELEVATION: 3776 feet (T-5)

MS 167 (TVA, 1938; Greene County, Tenn.)

To reach from Tusculum, drive from Y-intersection of Highway 11 E and 107 SE on Highway 107 7.5 miles to T-road south, turn south and go 1.3 miles southeast to farm house on the north side of road just east of right-angle bend in main graveled road, in fence corner, just east of house 18 feet north of the centerline of road in grass field. A 1- by 1-inch angle iron, stamped "MS 167" and driven 6 inches above the ground.
 Reference Mark 1: 8.21 feet S 55° E to fence post.
 Reference Mark 2: 7.60 feet S 60° W to fence post.
 GRID POSITION (TENN.): X = 2,987,744.6; Y = 651,824.0 (T-4)
 ELEVATION: 1533 feet (T-5)

MS 168 (TVA, 1938; Washington County, Tenn.)

To reach from Tusculum, drive southeast along Highway 107 9.9 miles (1.0 mile east of Greene-Washington County line), to T-road south, turn south, go 1.0 mile to bend in road and side road, keep to left and continue east to T-road south, approximately 0.25 mile, turn south, go 0.25 mile to right angle bend in road. Proceed on same road 0.5 mile to T-road intersection, turn south and go 0.55 mile to east-west brushy fence line, leave car and walk 120 yards west to fence line intersection in rocky bottom. A 1- by 1-inch angle iron, driven 6 inches above the ground in the southeast fence corner, stamped "MS 168".
 Reference Mark 1: 9.00 feet North to fence post.
 Reference Mark 2: 4.60 feet West to fence post.
 GRID POSITION (TENN.): X = 2,999,215.2; Y = 649,202.5 (T-4)
 ELEVATION: 1654 feet (T-5)

MS 170 (TVA, 1938; Greene County, Tenn.)

To reach from Greeneville, Tennessee, drive east on U. S. Highway 11 to Tusculum at Y-road intersection, leave U. S. Highway 11 proceeding on Highway 107 east 0.5 mile to right angle turn south in highway. Proceed southeast 3.0 miles across Brown's Bridge to Hermon Church, turn northeast on Highway 107 and continue 2.0 miles to T-road south, take road and go 0.5 mile to T-road intersection, turn east and drive 0.3 mile. Leave car and climb to top of cleared grass ridge to south, walk southeast down ridge 400 feet to fence intersection. A 1- by 1-inch angle iron driven on grass slope 6 inches above ground, and stamped "MS 170".
 Reference Mark 1: 25.50 feet S 25° E to fence post.
 Reference Mark 2: 30.50 feet N 65° E to fence post.
 Reference Mark 3: 41.90 feet S 70° E to fence post.
 GRID POSITION (TENN.): X = 2,976,600.4; Y = 650,915.3 (T-4)
 ELEVATION: 1632 feet (T-5)

MS 171 (TVA, 1938; Greene County, Tenn.)

To reach from Tusculum, drive from intersection of Highway 11 E and 107, southeast along Highway 107, 6.6 miles to side road east at bend in Highway 107, also at point where branch crosses side road, go 0.2 mile on side road east to mine and T-road south, go 0.2 mile along side road south to Y-road intersection. Keep to right or west and go 0.2 mile to T-road south, turn south and proceed 0.4 mile to T-intersection at Union Chapel, turn left and go east 0.3 mile to T-road south, go south 0.6 mile to house at right-angle bend in road. Proceed 0.25 mile on same road to crossroads intersection, turn west and drive along north edge of woods 100 yards, leave car and walk 50 yards north to slight rise in south edge of field. A 1- by 1-inch angle iron, stamped "MS 171".
 GRID POSITION (TENN.): X = 2,961,992.6; Y = 645,671.5 (T-4)
 ELEVATION: 1745 feet (T-5)

MS 172 (TVA, 1938; Unicoi-Washington Counties, Tenn.)

To reach from Tusculum, Tennessee, drive southeast on Highway 107, 13.3 miles to T-log road south at point where Highway 107 and Nolichucky River come almost together, take log road south and go 1.1 miles to old sawmill site. Leave car and climb up very steep vertical ridge in middle of hollow, proceed up the centerline of ridge 0.6 mile to highest rock top of ridge just west of tripod on Flat Top triangulation station. A chiseled cross in rock on high point of ridge, stamped "MS 172".
 Reference Mark 1: 10.00 feet N 66° E to 6-inch pine.
 Reference Mark 2: 26.00 feet N 79° W to 6-inch pine.
 Reference Mark 3: 8.50 feet N 7° W to 8-inch chestnut oak.
 GRID POSITION (TENN.): X = 3,017,068.0; Y = 649,915.3 (T-4)
 ELEVATION: 3140 feet (T-5)

MS 181 (TVA, 1938; Greene County, Tenn.)

To reach from Tusculum, Tennessee, take Highway 107 and drive southeast 2.35 miles, stopping at grain barn on the west side of road, 18 feet west of centerline of road, just west of fence line, at the southeast corner of said grain barn. A 1- by 1-inch angle iron, stamped "MS 181".
 Reference Mark 1: 4.95 feet N 10° W to fence post.
 Reference Mark 2: 7.55 feet N 75° W to southeast corner of barn.
 Reference Mark 3: 12.42 feet S 55° E to fence post.
 GRID POSITION (TENN.): X = 2,944,878.4; Y = 659,446.3 (T-4)
 ELEVATION: 1363 feet (T-5)

MS 222 (TVA, 1939; Greene County, Tenn., Madison County, N. C.)

Located 200 feet south of Appalachian Trail, on top of ridge. To reach from the Post Office in Greeneville, Tennessee, drive south on State Highway 70 for 15.4 miles to T-road north approximately 0.3 mile west of state line, turn north on T-road to Camp Creek Fire Tower and drive for 4 miles to farm

house in clearing on the south side of road. Leave car and climb along foot trail up to top of ridge some 3000 feet, on top of ridge the trail enters clearing with abandoned buildings, walk along trail southwest past old garden for 500 feet, where trail turns south up side of hollow, follow same for 500 feet further to top of ridge and Appalachian Trail, follow trail for 500 feet walking through saddle, over top, and through second saddle, climbing to top of ridge just south of Appalachian Trail. A 1- by 1-inch angle iron, stamped "MS 222", on top of ridge at 28-inch dead chestnut.

Reference Mark 1: 3.0 feet Southwest to 3-inch oak.

Reference Mark 2: 6.0 feet Southwest to 1/2-inch oak.

Reference Mark 3: 4.5 feet Northwest to 2-inch oak.

GEODETIC POSITION: Lat. = 36°00'35.12"; Long. = 82°44'12.13" (T-4)

GRID POSITION (N. C.): X = 892,591.6; Y = 843,349.8 (T-4)

GRID POSITION (TENN.): X = 2,962,538.0; Y = 604,911.9 (T-4)

ELEVATION: 3367 feet (T-5)

N 19 (USED, 1926; Greene County, Tenn.)

Located at Brown's Bridge over Nolichucky River, 2.8 miles from Tusculum, Tennessee, on the top of right bank stone pier, downstream side. A chiseled cross.

ELEVATION: 1298.2 feet (E-4)

N 20 (USED, 1926; Greene County, Tenn.)

Located 2.2 miles south of Afton, Tennessee, 600 feet downstream from the mouth of Sinking Creek, on large rock between barn and river. A chiseled cross painted red.

ELEVATION: 1339.8 feet (E-4)

N 21 (USED, 1926; Greene County, Tenn.)

Located 1.3 miles upstream from Ripley Island, on the right bank of the Nolichucky River, 400 feet from water's edge, and 75 feet east of big barn, directly across river from church and cemetery. A chiseled point painted red, on large rock.

ELEVATION: 1391.5 feet (E-4)

N 22 (USED, 1926; Greene County, Tenn.)

Located at Earnest Bridge over Nolichucky River, 0.5 mile south of Chucky, Tennessee, on right bank pier, downstream side. Top of anchor bolt head painted red.

ELEVATION: 1345.9 feet (E-4)

N 23 (USED, 1926; Washington County, Tenn.)

Located at Glaze Bridge over Nolichucky River, 2.5 miles south of Lime-stone, Tennessee, on top of left bank abutment, downstream side. Chiseled cross.

ELEVATION: 1366.6 feet (E-4)

N 24 (USED, 1926; Washington County, Tenn.)

Located 1.5 miles upstream from Glaze Bridge, on the right bank of Nolichucky River, at mouth of cave in lower end of bluff, 20 feet downhill from 36-inch elm tree, 1000 feet south of the home of Ross Broyles. A chiseled point painted red on rock.

ELEVATION: 1369.2 feet (E-4)

N 25 (USED, 1926; Washington County, Tenn.)

Located 220 feet upstream from the lower end of Yarbrough Bluff, 180 feet from the crest of left bank of Nolichucky River, at Mile 74.7, on farm owned by J. C. Broyles. A chiseled point on rock.

ELEVATION: 1399.4 feet (E-4)

N 26 (USED, 1926; Washington County, Tenn.)

Located at Bailey Bridge over Nolichucky River, on top of left bank abutment, downstream side. A chiseled cross painted red.

ELEVATION: 1425.2 feet (E-4)

N 27 (USED, 1926; Washington County, Tenn.)

Located 1.6 miles upstream from Bailey Bridge, on the right bank of Nolichucky River, at lower end of Bayless Bluff and 10 feet from the water's edge. A chiseled point painted red on rock.

ELEVATION: 1430.0 feet (E-4)

N 28 (USED, 1926; Washington County, Tenn.)

Located at Jackson Bridge over Nolichucky River, on top of left bank abutment, downstream side. A chiseled cross painted red.

ELEVATION: 1459.3 feet (E-4)

N 56 (US&GS, 1934; Greene County, Tenn.)

Located about 6.0 miles east along the Southern Railway from the station at Greeneville, at mileage 50.7, in the top of the back wall of the east abutment of bridge 50.7, and 6 feet south of the centerline of the main track. A standard disk, stamped "N 56 1934".

ELEVATION: 1466.870 feet or 447.103 meters (C-2)

N 59 (US&GS, 1934; Greene County, Tenn.)

Located about 9.6 miles east along the Southern Railway from the station at Greeneville, 45 feet west of the west side of the station at Chucky, at mileage 47.1, 12 feet west of the center of a crossing, 27 feet north of the centerline of the main track, and 6 feet north and 2 feet west of a fence corner. A standard disk, stamped "N 59 1934" and set in the top of a concrete post.

ELEVATION: 1460.998 feet or 445.313 meters (C-2)

N 115 (US&GS, 1935; Greene County, Tenn.)

Located 4.2 miles west of highway intersection at Painter, near Mountain View Church, along the Whig to Painter Highway, 0.8 mile east of the home of Daniel Hopson, 0.9 mile east of a log birch, 0.2 mile east of beginning of dirt road, 31 yards west of a dirt road to south, 18 feet north of the centerline of highway, 4.5 feet northwest of a telephone pole, 2 feet above level of highway and 6 inches above level of ground. A standard disk, stamped "N 115 1935" and set in top of a concrete post.

ELEVATION: 1688.225 feet or 514.572 meters (C-2)

N 187 (TVA, 1938; Washington County, Tenn.)

Located on the east side of lane through Love place, 100 feet southeast of barn on Nolichucky River bank, about 2 miles east of Conklin. A nail and washer in west root of 18-inch cedar.

ELEVATION: 1483.60 feet (T-3)

N 188 (TVA, 1938; Washington County, Tenn.)

Located 60 feet southwest of a large barn, on north side of road, 4 feet from end of road culvert, and 300 feet southeast of Sevier School. A chiseled square in the southwest corner of watering trough.

ELEVATION: 1487.32 feet (T-3)

N 189 (TVA, 1938; Washington County, Tenn.)

Located approximately 1500 feet above the head of Jackson Island, and 1000 feet downstream from church near the road. A chiseled square in the southwest corner of south headwall of culvert under road.

ELEVATION: 1469.22 feet (T-3)

N 190 (TVA, 1938; Washington County, Tenn.)

Located on the left bank of Nolichucky River, 10 feet west of the centerline of road along bank, approximately 0.5 mile above Jackson Bridge, approximately 1200 feet downstream from intersection of road and Jackson Creek. A railroad spike in east side of 18-inch cedar.

ELEVATION: 1464.47 feet (T-3)

N 191 (TVA, 1938; Washington County, Tenn.)

Located on Highway 107, 600 feet southwest of intersection of Highway 107 and Jackson Bridge Road, approximately 0.4 mile southeast of Jackson Bridge in a straight line, (bridge can be seen from culvert). A chiseled square on the north end of east headwall of concrete culvert.

ELEVATION: 1464.57 feet (T-3)

N 192 (TVA, 1938; Washington County, Tenn.)

Located on the left bank of Nolichucky River, 20 feet from the water's edge, approximately 1 mile below Jackson Bridge, about 400 feet below foot of small island. A 20-d spike in landside of 12-inch willow.

ELEVATION: 1433.76 feet (T-3)

N 193 (TVA, 1938; Washington County, Tenn.)

Located on Highway 107, 0.6 mile southwest of point where Clark Creek crosses Highway 107. A chiseled square on the southwest corner of south headwall of concrete culvert.

ELEVATION: 1470.68 feet (T-3)

N 194 (TVA, 1938; Washington County, Tenn.)

Located on the southeast side of Highway 107, approximately 0.8 mile above point where Roaring Creek crosses highway. A chiseled square on the northeast corner of culvert headwall.

ELEVATION: 1456.55 feet (T-3)

N 195 (TVA, 1938; Washington County, Tenn.)

Located approximately 1 mile east along Highway 107 from Mt. Carmel School, approximately half way between two stores, 500 feet apart. A chiseled square on the south headwall of concrete culvert.

ELEVATION: 1439.77 feet (T-3)

N 196 (TVA, 1938; Washington County, Tenn.)

Located 150 feet from the right bank of Nolichucky River, in fence line, approximately 200 feet above Bailey Bridge. A nail and washer in the southeast side of 24-inch apple tree.

ELEVATION: 1427.64 feet (T-3)

N 197 (TVA, 1938; Washington County, Tenn.)

Located on the south side of road along the right bank of the Nolichucky River, approximately 0.5 mile below Bailey Bridge, 15 feet from the centerline of road. A nail and washer in root of 10-inch pine tree.

ELEVATION: 1437.44 feet (T-3)

N 198 (TVA, 1938; Washington County, Tenn.)

Located on the road along the right bank of Nolichucky River, approximately 1.2 miles below Bailey Bridge and 0.6 mile above point where said road leaves river bank, about 400 feet west of large barn on the north side of road. A chiseled square on the southwest end of south headwall of concrete culvert.

ELEVATION: 1409.00 feet (T-3)

N 199 (TVA, 1938; Washington County, Tenn.)

Located on the right bank of Nolichucky River, on H. W. Snapp farm, back of abandoned tenant house, and 30 feet up river from Flood History Mark No. 97, about 2 miles by road from the New Salem School. A nail in downstream side of 10-inch hickory tree.

ELEVATION: 1416.49 feet (T-3)

N 200 (TVA, 1938; Washington County, Tenn.)

Located on the right bank of Nolichucky River, approximately 0.5 mile above Snapp Bridge and at head of rock bluff 100 feet from water's edge, 30 feet downstream from pasture fence. A nail in river side of a 28-inch walnut tree. Head of nail is broken off.

ELEVATION: 1401.77 feet (T-3)

N 201 (TVA, 1938; Washington County, Tenn.)

Located in downstream wingwall of Snapp Bridge, on the right bank of Nolichucky River. A chiseled square.

ELEVATION: 1399.22 feet (T-3)

N 202 (TVA, 1938; Washington County, Tenn.)

Located 2 feet above bed of dry branch, 75 feet from the right bank of Nolichucky River, 8 feet west of 18-inch beech tree, on which is marked the 1935 flood (No. 45), 2000 feet below Snapp Bridge. A chiseled square on rock ledge.

ELEVATION: 1375.57 feet (T-3)

N 203 (TVA, 1938; Washington County, Tenn.)

Located on the left bank of Nolichucky River, approximately 20 feet from the centerline of road that ends at Lamon's home, about 1 mile below Snapp Bridge, on property of Robert S. Lamon. A chiseled square on last concrete step of walk at front of Lamon's house.

ELEVATION: 1389.85 feet (T-3)

N 204 (TVA, 1938; Washington County, Tenn.)

Located on large island on the right bank of draw that would be a slough during high water, 2.4 miles south (airline) from Limestone, 2 miles upstream from Washington-Greene County line, about 500 feet from the lower end of island in Nolichucky River. A nail in the northwest side of a 12-inch

sycamore tree.

ELEVATION: 1360.36 feet (T-3)

N 205 (TVA, 1938; Washington County, Tenn.)

Located 2.8 miles south (airline) from Limestone, 1.3 miles upstream from Washington-Greene County line, along lane to Water Broyles house, about 200 feet north of Broyles barn, on Broyles property, approximately 40 feet southwest of lone cedar tree on lane. A chiseled square on rock outcrop 18 feet southwest of fence.

ELEVATION: 1367.46 feet (T-3)

N 206 (TVA, 1938; Washington County, Tenn.)

Located on downstream side of left bank abutment of Glaze Bridge, over Nolichucky River. A chiseled square.

ELEVATION: 1366.60 feet (T-3)

N 207 (TVA, 1938; Washington County, Tenn.)

Located on the right bank of Nolichucky River, about 0.3 mile upstream from the Washington-Greene County line, on property of William Broyles. A chiseled square on the southwest corner of concrete foundation of gasoline engine (pump engine).

ELEVATION: 1401.84 feet (T-3)

N 208 (TVA, 1938; Greene County, Tenn.)

Located about 0.6 mile upstream from Nolichucky River, 40 feet from the right bank, on bridge over Limestone Creek, on downstream side. Bridge is one nearest mouth of creek. A chiseled point on low water bridge.

ELEVATION: 1352.69 feet (T-3)

N 209 (TVA, 1938; Greene County, Tenn.)

Located on the right bank of Nolichucky River, 30 feet from water's edge, and 150 yards above high rock bluff, about 400 feet below R. C. Stonecypher home, about 1.6 miles upstream from Earnest Bridge, on property of R. C. Stonecypher, 12 feet down river from 1935 Flood Mark No. 42. A nail in downstream side of 10-inch sycamore tree.

ELEVATION: 1334.46 feet (T-3)

N 210 (TVA, 1938; Greene County, Tenn.)

Located on the left side of Nolichucky River, 25 feet from the centerline of road that crosses Earnest Bridge, 0.4 mile above bridge, in front of Jess Patton's house. A railroad spike driven in south side of 30-inch white oak tree.

ELEVATION: 1351.70 feet (T-3)

N 211 (TVA, 1938; Greene County, Tenn.)

Located on the left bank of the Nolichucky River, on top of high bluff, about 0.7 mile below Earnest Bridge, 400 feet northwest of power line and 50 feet north of fence and field road. A nail in west root of 30-inch oak stump.

ELEVATION: 1382.30 feet (T-3)

N 212 (TVA, 1938; Greene County, Tenn.)

Located on the left side of Nolichucky River, about 700 feet from water's edge, in fence line running east and west, 800 feet northwest from triangle road intersection, and 800 feet southwest of 2-story unpainted, tin roofed house, about 0.6 mile south (downstream) from Ebenezer Church, 100 feet south of small wooded draw. A nail in the south root of 16-inch walnut tree.

ELEVATION: 1379.41 feet (T-3)

N 213 (TVA, 1938; Greene County, Tenn.)

Located at foot of Cane Island, 27 feet northwest of Dancy Ripley's house on the left bank of Nolichucky River, about 400 feet from river bank, on property of Dancy Ripley, 3 feet inside of fence in front of house, approximately 800 feet above the head of Ripley Island. A nail and washer in the southwest root of 16-inch maple tree.

ELEVATION: 1334.86 feet (T-3)

N 214 (TVA, 1938; Greene County, Tenn.)

Located on top of bluff on left bank of Nolichucky River, opposite the center of Ripley Island, 30 feet northeast of second-class road at point where road runs out to river bank and turns downstream. A nail in the southwest side of 48-inch oak tree.

ELEVATION: 1380.85 feet (T-3)

N 215 (TVA, 1938; Greene County, Tenn.)

Located at site of house that was burned, 200 feet from the right bank of Nolichucky River, and 1000 feet below mouth of Sinking Creek. A chiseled square on the southwest corner of house foundation.

ELEVATION: 1358.86 feet (T-3)

N 216 (TVA, 1938; Greene County, Tenn.)

Located 6 feet north of east and west fence line on right bank of Nolichucky River, 500 feet northwest of house, about 0.5 mile upstream from Greenwood Church. A nail in south root of 10-inch apple tree.

ELEVATION: 1365.21 feet (T-3)

N 217 (TVA, 1938; Greene County, Tenn.)

Located on the right bank of Nolichucky River, in barnyard of Tom Cramer's farm, directly opposite Greenwood Church, on property of Tom Cramer, 150 feet south of 2-story brick house, 100 feet east of small branch, 200 feet west of barn, 10 feet north of chicken house. A chiseled square on top of rock outcrop.

ELEVATION: 1342.09 feet (T-3)

N 218 (TVA, 1938; Greene County, Tenn.)

Located about 0.4 mile north of intersection, on the right bank of Nolichucky River, along road from Highway 107 to Greenwood Church, on the southeast side of road, about 0.4 mile south of church. A nail in the northwest root of 30-inch oak tree.

ELEVATION: 1398.25 feet (T-3)

N 219 (TVA, 1938; Greene County, Tenn.)

Located 75 feet south of first house along Highway 107 on the right bank of Nolichucky River, after you cross the river, on Highway 107, 100 feet north of road, 600 feet west of Brown Bridge. A nail in the south root of 15-inch maple tree.

ELEVATION: 1345.98 feet (T-3)

N 220 (TVA, 1938; Greene County, Tenn.)

Located on the right bank of Nolichucky River, opposite Simpson Island, 60 feet from top of very high bank, 300 feet below fence normal to river, 600 feet below flood history mark No. 107. A bent spike in land side of 12-inch twin oak tree.

ELEVATION: 1331.83 feet (T-3)

P 12 (TVA, 1938; Unicoi County, Tenn.)

Located in Ernestville, at road intersection. Character of the station is unknown.

ELEVATION: 1851.581 feet or 564.363 meters (T-2)

P 13 (TVA, 1938; Unicoi County, Tenn.)

Located approximately 1.2 miles south of Ernestville, on concrete abutment of bridge over Spivey Creek, at the southeast corner of bridge, and 100 feet south of Y-road intersection. A chiseled square, painted "TBM P 13".

ELEVATION: 1952.640 feet or 595.166 meters (T-2)

P 15 (TVA, 1938; Unicoi County, Tenn.)

Located at Rocky Fork, on the southwest corner of concrete store porch. A chiseled square.

ELEVATION: 2133.273 feet or 650.222 meters (T-2)

P 16 (TVA, 1938; Unicoi County, Tenn.)

Located 2.0 miles southwest of Ernestville, and 3.0 miles northeast of Rocky Fork, in front of yellow frame house owned by J. F. Chandler, at the southwest end of lowest concrete step leading to house. A chiseled square.

ELEVATION: 1953.936 feet or 595.561 meters (T-2)

P 17 (TVA, 1938; Unicoi County, Tenn.)

Located 0.6 mile north of Flag Pond, 100 feet south of Y-road intersection, 30 feet east of the centerline of highway. A chiseled square, on base of bluff, painted "TBM P 17".

ELEVATION: 2252.833 feet or 686.665 meters (T-2)

P 56 (US&GS, 1934; Greene County, Tenn.)

Located about 7.8 miles east along the Southern Railway from the station at Greeneville, at mileage 48.9, at the bridge over Ripley Creek, in the top of the southeast concrete retaining wall, and 9 feet west of the east end. A standard disk, stamped "P 56 1934".

ELEVATION: 1420.880 feet or 433.085 meters (O-2)

P 115 (US&GS, 1935; Greene County, Tenn.)

Located 3.1 miles west of Painter, along the Whig to Painter highway, 0.5 mile east of gravel road to northeast, 95 yards east of the centerline of walk to home of Dan Norton, 45 yards southeast of small log barn, 73 yards west of a 21-inch apple tree, 30 yards southwest of the southwest corner of barn of above, 13 feet south of the centerline of highway, and 2 feet above level of highway. A standard disk, stamped "P 115 1935" and set on top of a concrete post.

ELEVATION: 1661.621 feet or 506.463 meters (O-2)

Q 112 (US&GS, 1935; Unicoi County, Tenn.)

Located 32.3 miles northwest of Burnsville, North Carolina, 9.0 miles southwest of Erwin, Tennessee, on U. S. Highway 19 W and 23 right-of-way, 17 feet west of U. S. Highway 19 W and 23, 135 feet west of Spivey Creek, 400 feet north of intersection of U. S. Highway 19 W and 23 and Coffee Ridge Road, 32 feet east of wire fence, on bank, 3 feet above level of the highway, 32 feet southwest of concrete headwall of pipe under highway. A standard US&GS tablet set in top of precast concrete post, stamped "Q 112".

ELEVATION: 1952.778 feet or 595.208 meters (T-2)

Q 115 (US&GS, 1935; Greene County, Tenn.)

Located 2.1 miles west of highway intersection at Painter, along the Painter to Whig Highway, 0.3 mile south of the junction of a gravel east-west road, 0.5 mile southwest of the junction of an east-west road at the home of J. C. Prather, at the Old Ward Church (Green Ridge Church), 33 feet west of the centerline of the highway, 9 feet south of the northeast corner of the church, 1.2 feet west of the east face of the church, on top of a hill, 1 foot above the ground. A standard disk, stamped "Q 115 1935" and set on top of a concrete post.

ELEVATION: 1629.012 feet or 496.524 meters (O-2)

QUAKER (US&GS, 1934; Greene County, Tenn.)

Located about 7-1/2 miles east-northeast of Greeneville, 0.8 mile west of U. S. Route 11, 0.5 mile south of county road to Rheatown, on rounded summit of small hilltop, on highest part of Quaker Ridge which is known locally as "Carpenter Mountain". To reach from Tusculum, follow U. S. Route 11 north 3.65 miles to county road to Rheatown, turn west and go 1.0 mile to rough dirt road, turn south and go 1/4 mile to McAlm's home and end of truck travel. Station is 1/4 mile southwest of McAlm's house, in approximate center of summit, 25 yards south of group of large trees, 37 feet north-northeast of 12-inch triangle-blazed tree, and 30 feet east of wire fence. Surface mark is a standard disk triangulation station mark set in the top of a square block or post of concrete. Underground mark is a standard station disk set at the center of the upper surface of a block of concrete 3 feet below the ground.

Reference marks are standard reference disks with the arrows pointing toward the station, each set at the center of the top of a square block or post of concrete.

Reference Mark 1: east of fence, at base of triangle-blazed tree, and 10.552 meters (34.62 feet) from station in geodetic azimuth 100°11'.

Reference Mark 2: 10 feet south of large trees, east of fence, and 18.330 meters (59.48 feet) from the station in geodetic azimuth 203°40'.

Azimuth mark is standard reference disk, with the arrow pointing toward the station, set at the center of the top of a concrete cylinder, about 0.5 mile west of junction of U. S. Route 11 and county road to Rheatown, 100 yards northwest of red frame house, 21 feet east of center of county road to Rheatown, and 0.6 mile from station.

GEODETIC POSITION: Lat. = 36°13'13.768"; Long. = 82°42'55.343" (O-2)

To Station	Geodetic Azimuth	Distance	Log. Meters	Miles
	Azimuth	Back Azimuth		
Greeneville	64°33'17.1"	244°29'42.0"	4.003378	6.3
High Spur	112 50 51.2	292 11 46.0	4.397073	15.5
Chimney	182 03 19.5	2 03 37.2	4.318651	12.9

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Camp Creek F. T.	0°01'32"			13.6
Azimuth Mark	298 08 17.4			
GRID POSITION (TENN.):	X = 2,968,733.49; Y = 681,842.73 (C-2)			
Grid Azimuth to Azimuth Mark:	296°12'54.8"			

R 112 (US&GS, 1935; Unicoi County, Tenn.)

Located 33.4 miles northwest of Burnsville, North Carolina, 7.9 miles southwest of Erwin, Tennessee, at Ernestville, Tennessee, on U. S. Highway 19 W and 23 right-of-way, 5 feet east of U. S. Highway 19 W and 23, 45 feet east of Spivey Creek, 300 feet south of intersection of U. S. Highway 19 W and 23 and old Highway 36, 230 feet south of Robert Willis' Store, 39 feet west of a barn, 100 feet northwest of a blue and yellow house, on right bank of a branch, 16 feet south of north end of east headwall of large culvert. A standard US&GS tablet set in top of concrete culvert headwall.

Reference Mark 1: 39.0 feet N 84° E to southwest corner of barn.

Reference Mark 2: 38.1 feet S 33° W to 24-inch sycamore tree.

ELEVATION: 1848.244 feet or 563.346 meters (T-2)

R 115 (US&GS, 1935; Washington County, Tenn.)

Located 1.0 mile east of Painter, by highway, along Painter Road, 0.4 mile southwest of Liberty Church, 46 feet east of a 24-inch oak tree, 33 feet southeast of the southeast corner of home of R. F. Dunbar, 25.5 feet southwest of a southwest fence corner, 20 feet north of the centerline of highway, on level with highway and 6 inches above level of ground. A standard disk, stamped "R 115 1935" and set on top of a concrete post.

ELEVATION: 1552.684 feet or 473.259 meters (C-2)

RFG 219 (TVA, 1938; Greene County, Tenn.)

Located 10 miles southeast of Greeneville, driven among boulders on the centerline of ridge. To reach from Pleasant Hill, set speedometer at zero at Pleasant Hill School crossroads and drive south 0.6 mile, turn right on dirt road 0.9 mile, turn right at Y-road 1.2 miles, turn left at Y-road road 1.9 miles, turn left at T-road (Horse Creek Forest Service Road) 4.0 miles. At Y-intersection, bear left up Horse Creek Trail (Forest Service Fire Trail) passable to trucks in dry weather 4.7 miles to clearing at old sawmill site. Station is on top of high knob 1/2 mile northwest. No trail. Best approach is along ridge bearing northwest from the north end of clearing; about 40 feet north of highest point and on the centerline of ridge in rock outcrop. A 1- by 1-inch angle iron, stamped "TVA RFG 219 1938".

Reference Mark 1: 22.2 feet N 25° W to 10-inch red oak.

Reference Mark 2: 4.8 feet N 70° E to 9-inch red oak.

Reference Mark 3: 10.4 feet S 50° W to 8-inch chestnut snag.

GRID POSITION (TENN.): X = 2,989,850.8; Y = 636,783.3 (T-4)

ELEVATION: 2844 feet (T-5)

RFG 220 (TVA, 1938; Greene County, Tenn.)

Located 12 miles west of Erwin. To reach from the Pleasant Hill School and crossroads, drive south 0.6 mile to fork, then turn right on dirt road 0.3 mile to fork, then turn right at Y-road, 0.3 mile to fork, then turn right 300 feet to farm road, turn right through barn yard, 500 feet to barn. Station is 200 feet northwest of barn in cultivated field, 100 feet north-east of woods-line and 100 feet east of fence line. A 1- by 1-inch angle iron, driven flush, and stamped "TVA RFG 220 1938".

Reference Mark 1: 101.6 feet S 70° E to 18-inch white oak.

Reference Mark 2: 72.5 feet S 32° E to 4-inch cedar.

Reference Mark 3: 98.8 feet S 5° W to 8-inch persimmon.

GRID POSITION (TENN.): X = 2,989,844.6; Y = 648,222.3 (T-4)

ELEVATION: 1620 feet (T-5)

RFG 222 (TVA, 1938; Greene County, Tenn.)

Located 12 miles southwest-west of Erwin, on the centerline of a ridge. To reach from the Post Office at Flag Pond, Tennessee, drive northeast on road to Erwin, 2.0 miles to Rocky Fork School, then turn left and drive west on gravel road 3.0 miles to fork, then bear right at Sweetwater School 3.5 miles through Devil's Gap to Carmen, then turn right on Big Creek Road 5.0 miles to end at headwall of valley. Follow log trail up valley to left 500 feet, then turn left on side-hill trail 1/2 mile to intersection in hollow, turn right up hollow about 1500 feet to top of bare ridge, about 2000 feet east of Big Butt triangulation station. Continue east along top of ridge (no trail), about 1 mile (1 hour's walk) to east end of east-west narrow ridge, about 1900 feet east of low point in gap, on centerline of ridge, and driven among rocks. A 1- by 1-inch angle iron, 0.4 foot above ground, and stamped "TVA RFG 222 1938".

Reference Mark 1: 8.0 feet N 20° W to 10-inch dead chestnut.

Reference Mark 2: 11.9 feet S 70° W to 8-inch dead chestnut.

GEODETIC POSITION: Lat. = 36°05'48.60"; Long. = 82°36'26.53" (T-4)

GRID POSITION (N. C.): X = 933,989.1; Y = 861,362.5 (T-4)

GRID POSITION (TENN.): X = 3,002,553.0; Y = 625,815.5 (T-4)

ELEVATION: 4204 feet (T-5)

RFG 224 (TVA, 1938; Unicoi County, Tenn.)

Located 11 miles southwest of Erwin. To reach from Flag Pond Post Office, drive north on road to Erwin, 2.0 miles to Rocky Fork School, then turn left and drive southwest on road to Hot Springs 1.9 miles to farm road right, turn right on farm road up hollow 0.2 mile to log house. Continue on foot up hollow 1000 feet to top of headwall, 200 feet southwest along fence line from where trail crosses fence line, on small bump on nose of ridge, in group of young pines and about 3 feet west of fence line. A 1- by 1-inch angle iron, 0.4 foot above ground, and stamped "TVA RFG 224 1938".

Reference Mark 1: 24.4 feet S 25° W to 4-inch pine.

Reference Mark 2: 9.7 feet N 81° W to 4-inch pine.

Reference Mark 3: 2.2 feet N 15° W to 2-inch persimmon snag.

GEODETIC POSITION: Lat. = 36°01'33.51"; Long. = 82°34'31.04" (T-4)

GRID POSITION (N. C.): X = 942,975.5; Y = 847,368.4 (T-4)

GRID POSITION (TENN.): X = 3,012,509.5; Y = 612,494.4 (T-4)

ELEVATION: 2982 feet (T-5)

RFG 225 (TVA, 1938; Washington County, Tenn.)

Located 11.0 miles west of Erwin. To reach from the Erwin Post Office, drive north one block, then turn left on Tennessee Highway 61, 7.1 miles to junction with Tennessee Highway 107, turn left 8.4 miles to Mt. Carmel School, then turn left beyond school, 1.2 miles to fork, then bear left 0.6 mile to log house on right. Go right on foot up ridge behind barn 1000 feet to top, thence turn right along top of ridge and along trail 1000 feet to station, in centerline of trail along the centerline of ridge at high point between not very prominent saddles. A 1- by 1-inch angle iron, 0.4 foot above

ground, and stamped "TVA RFG 225 1938".

Reference Mark 1: 11.3 feet S 50° W to 8-inch pine.

Reference Mark 2: 9.8 feet S 87° W to 7-inch pine.

Reference Mark 3: 12.7 feet N 54° W to 6-inch dead snag.

GRID POSITION (TENN.): X = 3,003,123.9; Y = 649,777.4 (T-4)

ELEVATION: 2014 feet (T-5)

RV 95 (US&GS, 1934; Greene County, Tenn.)

Located about 6.0 miles east along the Southern Railway from the station at Greeneville, about 500 feet west of the station at Afton, at bridge 50.7 A, in the top of the back wall of the west concrete abutment, and 6.6 feet south of the centerline of the main track. A standard monel-metal rivet.

ELEVATION: 1467.442 feet or 447.268 meters (C-2)

RV 96 (US&GS, 1934; Greene County, Tenn.)

Located about 7.8 miles east along the Southern Railway from the station at Greeneville, at bridge 48.9 A over Ripley Creek, in the top of the north side wall of a U-concrete abutment, 1 foot from the west end, and 6 feet north of the centerline of the main track. A standard monel-metal rivet.

ELEVATION: 1449.351 feet or 442.619 meters (C-2)

RV 97 (US&GS, 1934; Greene County, Tenn.)

Located about 9.5 miles east along the Southern Railway from the station at Greeneville, about 0.2 mile west of the station at Chuckey, at signal 472 A, in the top of the northeast corner of the concrete base, and 9.8 feet south of the centerline of the main track. A standard monel-metal rivet.

ELEVATION: 1451.565 feet or 442.438 meters (C-2)

RV 98 (US&GS, 1934; Greene County, Tenn.)

Located about 2.1 miles west along the Southern Railway from the station at Limestone, Washington County, at mileage 45.4 A, at a signal feed, in the top of the southeast corner of the concrete base, and 11 feet south of the centerline of the main track. A standard monel-metal rivet.

ELEVATION: 1512.684 feet or 461.067 meters (C-2)

RV 99 (US&GS, 1934; Washington County, Tenn.)

Located about 8.5 miles southwest along the Southern Railway from the station at Jonesboro, at signal 416 A, in the top of the northeast corner of the concrete base, and 9.5 feet south of the centerline of the main track. A standard monel-metal rivet.

ELEVATION: 1487.589 feet or 453.418 meters (C-2)

RV 100 (US&GS, 1934; Washington County, Tenn.)

Located about 7.3 miles southwest along the Southern Railway from the station at Jonesboro, about 400 feet west of the station at Washington College, at signal 404 A, in the top of the north corner of the concrete base, and 9.5 feet south of the centerline of the main track. A standard monel-metal rivet.

ELEVATION: 1516.992 feet or 462.380 meters (C-2)

RV 101 (US&GS, 1934; Washington County, Tenn.)

Located about 5.5 miles west along the Southern Railway from the station at Jonesboro, at bridge 38.6 A over Limestone Creek, in the top of the back wall of the east concrete abutment, and 6.8 feet south of the centerline of the main track. A standard monel-metal rivet.

ELEVATION: 1521.303 feet or 463.694 meters (C-2)

S 112 (US&GS, 1935; Unicoi County, Tenn.)

Located 10.1 miles southwest of Erwin, Tennessee, at Clearbranch, on Tilson Mountain Road, on property of E. B. Sams, 25 feet northwest of Tilson Mountain Road, 43.8 feet southeast of E. B. Sams' house, 125 feet southeast of Murray Branch, 80 feet south of Clearbranch Post Office, 200 feet southwest of large barn, 55 feet northeast of a bridge over drain, and 25 feet southwest of driveway to post office. A standard US&GS tablet set in top of rock boulder.

Reference Mark 1: 43.8 feet N 52° W to southwest corner of house.

Reference Mark 2: 13.7 feet N 73° E to 6-inch sassafras tree.

ELEVATION: 2148.972 feet or 655.008 meters (T-2)

S 115 (US&GS, 1935; Washington County, Tenn.)

Located 2.0 miles east of Painter, by highway, 1.0 mile southeast of junction of Painter Road and State Highway 107, 0.15 mile east of gravel road to north, 78 yards east of L-turn and gravel road to the south, 70 yards north of the northwest corner of a saw mill, 66 feet south of the southeast corner of cement block building, 56 feet north of the northwest corner of home of Henry Bailey, 23 feet south of the centerline of highway, on level with highway and 8 inches above level of ground. A standard disk, stamped "S 115 1935" and set on top of a concrete post.

ELEVATION: 1623.835 feet or 494.946 meters (C-2)

T 112 (US&GS, 1935; Unicoi County, Tenn.)

Located 11.2 miles southwest of Erwin, Tennessee, 1.1 miles southwest of Clearbranch, Tennessee, on Tilson Mountain Road, on property of Luke Tipton, 15 feet northwest of Tilson Mountain Road, and 55 feet southeast of Murray Branch. 5.1 feet southwest of a log barn, 175 feet southwest of Luke Tipton's house, 175 feet southwest of a T-road west from Tilson Mountain Road, and 2 feet below level of the road. A standard US&GS tablet set in top of precast concrete post.

Reference Mark 1: 5.1 feet N 35° E to southeast corner of barn.

Reference Mark 2: 23.8 feet S 10° W to telephone pole.

ELEVATION: 2304.867 feet or 702.525 meters (T-2)

T 115 (US&GS, 1935; Washington County, Tenn.)

Located 3.0 miles east of highway intersection at Painter, along State Highway 107, at the junction of Painter Road and above highway, 0.3 mile west of above highway concrete bridge over Casi Creek, at the west end of a valley, 38.5 feet northwest of the centerline of the gravel Painter Road, 25.5 feet south of the centerline of highway, on top of the south concrete headwall of a concrete culvert under Highway 107, 4.5 feet east of the west end of the culvert, 5 feet below the road. A standard disk, stamped "T 115 1935".

ELEVATION: 1473.324 feet or 449.070 meters (C-2)

TELFORD (US&GS, 1934; Washington County, Tenn.)

Located about 1.5 miles south of Telford railroad station, on the west side of U. S. Route 11 E, on property of E. M. Warwick, 75 feet from

northeast corner of Warwick's house, 53.0 feet south of Warwick's driveway entrance, 27.2 feet south of electric light pole No. 175, and 21.6 feet west of the centerline of the road. Surface mark is a standard disk triangulation station mark set in the top of a square block or post of concrete. Underground mark is a standard station disk set at the center of the upper surface of a block of concrete 3 feet below the ground.

Reference and azimuth marks are standard disk reference marks with the arrows pointing toward the station, each set at the center of top of a square block or post of concrete.

Reference Mark 1: 35.05 feet east of the centerline of Route 11 E, 4.3 feet inside fence line, between fence line and edge of woods, 4 feet above highway, 16.5 feet from telephone pole, 3.5 feet from 10-inch twin black oak tree, and 143.16 feet from station in geodetic azimuth 225°22'.

Reference Mark 2: in pine grove, 30.8 feet east of the centerline of Route 11 E, 13.6 feet from telephone pole, 5 feet above highway, 3.5 feet inside fence line, and 75.25 feet from station in geodetic azimuth 338°05'.

Azimuth Mark: in edge of field, 55.3 feet south of pole No. 168, on northwest side of road, 45.0 feet southeast of the centerline of Route 11 E, 2.5 feet southeast of fence line, and about 0.15 mile from station.

GEODETIC POSITION: Lat.= 36°13'59.290"; Long.= 82°33'32.270" (C-2)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Quaker	84°20'54.2"	264°15'21.4"	4.150207	8.8
Chimney	145°37'53.2"	325°32'37.4"	4.371613	14.6
Azimuth Mark	32°26'03.9"			

GRID POSITION (TENN.): X = 3,014,682.78; Y = 688,028.12 (C-2)

Grid Azimuth to Azimuth Mark: 30°25'11.6"
ELEVATION: 1621.716 feet or 494.500 meters (C-2)

TELFORD AZ. NO. 1 (US&GS, 1934; Washington County, Tenn.)

Located 1.6 miles southwest of the Post Office at Telford, by highway, on U. S. Highway 11 E, 47 yards west of timber line on the south side of road, 30 yards east of power pole 167, 22.5 feet south of the centerline of highway, 3.5 feet above surface of highway. A standard US&GS azimuth station, stamped "Telford Az. 1 1934" and set on top of a concrete post.

ELEVATION: 1603.199 feet or 488.656 meters (C-2)

TELFORD RER NO. 1 (US&GS, 1934; Washington County, Tenn.)

Located 1.35 miles southwest of the Post Office at Telford, by U. S. Highway 11 E, 58 yards north of the home of L. M. Warwick, 30 feet east of the centerline of highway, in edge of woods, 3 feet above surface of highway. A standard US&GS reference disk, stamped "Telford 1 1934" and set on top of a concrete post.

ELEVATION: 1625.207 feet or 495.364 meters (C-2)

U 112 (US&GS, 1935; Unicoi County, Tenn.)

Located 12.1 miles southwest of Erwin, Tennessee, and 2.0 miles southwest of Clearbranch, Tennessee, on Tilsen Mountain Road, on property of L. H. Sams, 28 feet southeast of Tilsen Mountain Road, at top of Tilsen Mountain, 2 feet northwest of a large log barn, 450 feet northeast of L. H. Sams' house, 8 feet southwest of opening through barn, and 2 feet below level of road. A standard US&GS tablet set in top of precast concrete post.

Reference Mark 1: 4.0 feet S 18° W to northwest corner of barn.

Reference Mark 2: 71.7 feet N 30° E to telephone pole.

ELEVATION: 2668.935 feet or 813.493 meters (T-2)

U 115 (US&GS, 1935; Washington County, Tenn.)

Located 4.1 miles east of highway intersection at Painter, along State Highway 107, 1.1 miles east of junction of gravel road southwest of Painter, 31 feet south of the centerline of the highway, 0.5 mile west of a small general store, 82 feet southwest of the southwest corner of the garage of J. A. Baum, 43 feet west of a northeast fence corner, 2.2 feet north of a fence line, 3 feet below the road. A standard disk, stamped "U 115 1935" and set on top of a concrete post.

ELEVATION: 1446.257 feet or 440.820 meters (C-2)

V 112 (US&GS, 1935; Unicoi County, Tenn.)

Located 13.4 miles southwest of Erwin, Tennessee, and 0.6 mile northeast of Flag Pond, Tennessee, on property of M. M. Shelton, 14 feet southeast of Tilsen Mountain Road, 2 feet southeast of wire fence, 49 feet north of a large barn, 600 feet southeast of South Indian Creek, 300 feet southwest of base of Tilsen Mountain grade, 3 feet northeast of lot gate, 35 feet southwest of a branch, 200 feet northeast of house owned by M. M. Shelton, and occupied by B. M. Shelton. A standard US&GS tablet set in top of precast concrete post.

Reference Mark 1: 52.45 feet S 45° E to northwest corner of barn.

Reference Mark 2: 50.90 feet S 12° W to southwest corner of barn.

ELEVATION: 2239.894 feet or 682.721 meters (T-2)

V 115 (US&GS, 1935; Washington County, Tenn.)

Located 5.1 miles east of highway intersection at Painter, along State Highway 107, 33 feet southeast of the centerline of the highway, 0.5 mile east of a small store, 25 feet south of the centerline to the home of B. R. Tinker, 42 yards southwest of a fence corner, 91 yards northeast of a concrete culvert headwall, 2 feet above the road. A standard disk, stamped "V 115 1935" and set on top of a concrete post.

ELEVATION: 1446.854 feet or 441.002 meters (C-2)

W 112 (US&GS, 1935; Unicoi County, Tenn.)

Located 14.2 miles southwest of Erwin, Tennessee, at Flag Pond, Tennessee, on Sams Gap Road right-of-way, 4 feet northeast of Sams Gap Road, 350 feet southeast of Baptist Church, 100 feet north of Lee Sams' house, 175 feet east of Lee Sams' store, on the left bank of Sams Creek. At the intersection of Rice Creek Road and Sams Gap Road, set in the top of northeast abutment of concrete bridge, over Sams Creek. A standard US&GS tablet set in top of a concrete bridge abutment.

ELEVATION: 2307.758 feet or 703.406 meters (T-2)

W 112 X (US&GS, 1935; Unicoi County, Tenn.)

Located 13 miles southwest of Erwin, Tennessee, 1.2 miles northeast of Flag Pond, Tennessee, approximately 1 mile south of Rocky Fork, on Sams Gap Road right-of-way, culvert over branch and on east side of highway. A standard US&GS tablet set in headwall of concrete culvert.

ELEVATION: 2203.378 feet or 671.591 meters (T-2)

W 115 (US&GS, 1935; Washington County, Tenn.)

Located 6.2 miles east of highway intersection at Painter, along State Highway 107, 62 yards southwest of the centerline of the drive to the home of J. A. Miller, 50 yards south of the south corner of the home of Mr. Miller, 15.5 feet northwest of the centerline of highway, on top of the northeast end of the northwest concrete headwall of a concrete culvert under the highway, 1 foot above the road. A standard disk, stamped "W 115 1935".

ELEVATION: 1492.175 feet or 454.816 meters (C-2)

W 116 (US&GS, 1935; Greene County, Tenn.)

Located at Chuckey, 11.3 feet east of the centerline of the entrance to the Post Office, 4.5 feet east of the southwest corner of the building, 2.0 feet above the ground. A standard US&GS disk, stamped "W 116 1935" and set vertically in the east face of the post office.

ELEVATION: 1472.057 feet or 448.684 meters (C-2)

WADDELL (USGS, 1934; Greene County, Tenn.)

Located about 6 miles southeast of Greeneville, Tennessee, and about 1/4 mile north of junction of Water Fork and Camp Creek, (a branch of the Nolichucky River), on the property of Bert Waddell. To reach from the junction of Routes U. S. 11 and State Route 107 (John Sevier Highway) at Tusculum, Tennessee, take Route 107 leading toward Erwin, Tennessee, 3.6 miles, crossing Nolichucky River to a side road just below a white frame church on hill. Turn right (crossing a branch locally known as Middle Fork) on gravelled road 1.6 miles to road forks with a 2-story brick dwelling on the left, turn left crossing which is known as Camp Creek, 0.8 mile to the residence of Bert Waddell. Leave car and take trail leading southerly about 1/4 mile to station. Station is a standard marker.

GEODETIC POSITION: Lat.= 36°07'08.340"; Long.= 82°44'33.939" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Carty	236°52'14.7"	56°56'12.7"	4.080545	7.5
Big Rock	300°51'12.2"	120°55'04.7"	4.060810	7.1

GRID POSITION (TENN.): X = 2,961,888.6; Y = 644,644.7 (G-3)

ELEVATION: 1548 feet (T-5)

X 115 (US&GS, 1935; Washington County, Tenn.)

Located 7.3 miles east of highway intersection, along State Highway 107, 0.25 mile northwest of school and concrete bridge, 0.2 mile southwest of concrete bridge and gravel road to the south, 56 yards southwest of the centerline of drive to home of Marvin Rand, 44 yards southwest of a concrete highway culvert, 28 feet southwest of the centerline of above highway, 2 feet northwest of fence line, 3 feet above road at east end of highway at cut. A standard disk, stamped "X 115 1935" and set on top of a concrete post.

ELEVATION: 1472.891 feet or 448.938 meters (C-2)

X 116 (US&GS, 1935; Greene County, Tenn.)

Located 0.8 mile south of the Post Office at Chuckey, by Highway, along the Chuckey to Painter Road, 0.1 mile south and on top of the first hill south of Earnest Bridge over the Nolichucky River, 46 yards south of the entrance of red brick house, 30 feet west of the centerline of roadway, 21 feet north of a gate to a farm lot, 1.0 foot above surface of roadway. A standard disk, stamped "X 116 1935" and set on top of a concrete post.

ELEVATION: 1360.749 feet or 414.757 meters (C-2)

Y 107 (US&GS, 1935; Washington County, Tenn.)

Located 2.0 miles northwest of the Post Office at Limestone by highway, along the Limestone to Jockey Road, set in limestone outcrop in the pasture of U. C. Bolten, 40 yards north of the home of U. C. Bolten, 47 feet east of the centerline of roadway, 34.6 feet east of fence line, 4 feet above surface of roadway. A standard disk, stamped "Y 107 1935".

ELEVATION: 1493.025 feet or 455.075 meters (C-2)

Y 116 (US&GS, 1935; Greene County, Tenn.)

Located 1.85 miles south of the Post Office at Chuckey, by highway, along the Chuckey to Painter Road, 0.2 mile south of 1-story bungalow, at the edge of small clearing next to row of pines, 29.5 feet east of the centerline of roadway, level with surface of road. A standard disk, stamped "Y 116 1935" and set on top of a concrete post.

ELEVATION: 1425.745 feet or 434.568 meters (C-2)

Z 58 (US&GS, 1934; Madison County, N. C.)

Located about 6.3 miles northeast along State Highway 212 from White Rock, about 1/2 mile southwest of Carman, North Carolina, about 4.8 miles southwest of the North Carolina-Tennessee State line, opposite a log barn, and about 30 feet northeast of a pole, 18 feet north of the centerline of the highway. A standard disk, stamped "Z 58 1934" and set in the top of a concrete post.

Report on condition (TVA, September 1939): Searched for but not recovered. Mark was set at head of small hollow and heavy rains have covered location with about 5 feet of sand and rock.

ELEVATION: 2188.700 feet or 667.117 meters (C-2)

Z 116 (US&GS, 1935; Greene County, Tenn.)

Located 3.0 miles south of the Post Office at Chuckey, by highway, along the Chuckey to Painter Road, 46 feet west of entrance to 1-story frame home of H. H. Johnson, 37.5 feet southwest of the centerlines of intersection of Chuckey to Painter Road and T-road to the west, at corner of barn lot, 2 feet below surface of roadway. A standard disk, stamped "Z 116 1935" and set on top of a concrete post.

ELEVATION: 1405.575 feet or 428.420 meters (C-2)