

TENNESSEE VALLEY AUTHORITY  
DIVISION OF WATER CONTROL PLANNING  
MAPS AND SURVEYS BRANCH

# SURVEY CONTROL DATA

MURPHY, NORTH CAROLINA  
QUADRANGLE 141

EXTENT OF QUADRANGLE  
LATITUDE: 35°00' TO 35°15'  
LONGITUDE: 84°00' TO 84°15'

BULLETIN TVA-MS-141-C

PRICE \$1.00

CHATTANOOGA, TENNESSEE  
FEBRUARY 1966

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EXTRA COPIES OF SURVEY CONTROL MARKERS LOCATION MAP . . . 20 CENTS

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## SURVEY CONTROL DATA IN QUADRANGLE 141

AMS 774 A (TVA, 1947; Cherokee County, North Carolina)

Located on east edge of saddle, near Hiwassee Village, about 150 feet west of boat dock, at southeast corner of parking lot. A standard TVA tablet stamped "AMS 774 A 1947" and set in precast monument. Steel post with control marker sign set approximately 1 foot north of monument.

Reference Mark 1: 13.1 feet Southwest to washer in 8-inch pine.  
Reference Mark 2: 135 feet South to washer in 8-inch hickory.  
Reference Mark 3: 10.4 feet Southeast to washer in 3-inch pine.

GRID POSITION (North Carolina): X = 455,057.8; Y = 549,748.5 (T-3)  
Grid Azimuth to AMS 774 B (distance 170.8 feet): 227°51'30".  
ELEVATION: 1571.5 feet (T-4)

AMS 774 B (TVA, 1947; Cherokee County, North Carolina)

Located on north end of saddle, near Hiwassee Village, about 200 feet west of boat dock. A standard TVA tablet stamped "AMS 774 B 1947" and set in precast concrete monument. Steel post with control marker sign set approximately 1 foot east of monument.

Reference Mark 1: 15.6 feet Southeast to washer in 8-inch pine.  
Reference Mark 2: 15.6 feet East to washer in 5-inch post oak.  
Reference Mark 3: 3.8 feet West to washer in 8-inch pine.

GRID POSITION (North Carolina): X = 455,184.5; Y = 549,863.1 (T-3)  
Grid Azimuth to AMS 774 A (distance 170.8 feet): 47°51'30".  
Grid Azimuth to Hiwassee Water Tank: 88°05'10".  
ELEVATION: 1579.9 feet (T-4)

AMS 786 (TVA, 1947; Cherokee County, North Carolina)

Located in old shop area, about 700 feet downstream from powerhouse, at Hiwassee Dam. A standard TVA tablet stamped "AMS 786 1947" and set in precast concrete monument. Steel post with control marker sign set approximately 1 foot south of monument.

GRID POSITION (North Carolina): X = 452,550.3; Y = 548,959.8 (T-3)  
ELEVATION: 1291.5 feet (T-4)

ASR 9 (TVA, 1941; Cherokee County, North Carolina)

Located on left bank of Hiwassee River. To reach from Violet, drive southwest to the river. Station is on steep slope directly opposite point where downstream contour turns up North Shoal Creek, 9.5 feet northeast of 16-inch red oak, 21.8 feet north of 14-inch chestnut oak, 23.8 feet northeast of 10-inch white oak, 22.5 feet from 3-inch dogwood, 3.4 feet from small rock, and 10.8 feet from 12-inch black oak. A standard TVA tablet stamped "ASR 9 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GRID POSITION (North Carolina): X = 434,043.6; Y = 558,475.2 (T-4)  
Grid Azimuth to ASR 10 (distance 963.8 feet): 245°50'30".  
ELEVATION: 1285.1 feet (T-4)

ASR 10 (TVA, 1941; Cherokee County, North Carolina)

Located on right bank of Hiwassee River, about 6 miles downstream from Hiwassee Dam site, on point about 80 feet downstream from point where downstream contour turns up North Shoal Creek, 15.1 feet west of 14-inch pine, and 10.5 feet southeast of 12-inch pine. A standard TVA tablet stamped "ASR 10 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (North Carolina): X = 434,922.9; Y = 558,869.8 (T-4)  
Grid Azimuth to ASR 9 (distance 963.8 feet): 65°50'30".  
ELEVATION: 1286.3 feet (T-4)

ASR 11 (TVA, 1942; Cherokee County, North Carolina)

Located on left bank of Hiwassee River, approximately 1 mile downstream from mouth of South Shoal Creek, approximately 300 feet downstream from large ravine, which is on right bank, on point between 2 small ravines, 13.0 feet southeast of 30-inch pine, 27.0 feet from 10-inch oak, 22.75 feet from 10-inch cedar, and 16.45 feet from 24-inch stump. A standard TVA tablet stamped "ASR 11 1942" and set in rock outcrop. Steel post with control marker sign set 1 foot southwest of tablet.

GRID POSITION (North Carolina): X = 435,906.4; Y = 555,786.2 (T-4)  
Grid Azimuth to ASR 12 (distance 638.3 feet): 217°23'40".  
ELEVATION: 1291.7 feet (T-4)

ASR 12 (TVA, 1941; Cherokee County, North Carolina)

Located 1250 feet southwest of New Prospect Church, about 3-1/2 miles east of Apalachia Dam. Monument is on rocky point that extends out in lake about 600 feet downstream from point where the contour turns up deep hollow about 60 feet upstream from upstream end of 30-foot rock bluff, 14.9 feet west of 8-inch oak, 11.3 feet northwest of 4-inch hickory, and 38.2 feet southeast of 24-inch white oak. A standard TVA tablet stamped "ASR 12 1941" and set in granite rock. Steel post with control marker sign set 1.5 feet northwest of tablet.

GRID POSITION (North Carolina): X = 436,294.0; Y = 556,293.3 (T-4)  
Grid Azimuth to ASR 11 (distance 638.3 feet): 37°23'40".  
ELEVATION: 1284.1 feet (T-4)

ASR 13 (TVA, 1941; Cherokee County, North Carolina)

Located on the left bank of Hiwassee River, approximately 2000 feet downstream from South Shoal Creek mouth, directly across lake from downstream point of contour as it turns up deep hollow, 2.6 feet east of 8-inch hemlock, 13.0 feet northwest of 5-inch black gum, set flush with ground, 17.1 feet from large boulder (paint mark), and 18.83 feet from 30-inch beech tree. A standard TVA tablet stamped "ASR 13 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GRID POSITION (North Carolina): X = 437,646.5; Y = 551,424.6 (T-4)  
Grid Azimuth to ASR 14 (distance 808.4 feet): 224°01'10".  
ELEVATION: 1283.7 feet (T-4)

ASR 14 (TVA, 1941; Cherokee County, North Carolina)

Located on right bank of Hiwassee River, approximately 2000 feet downstream from South Shoal Creek mouth, approximately 500 feet north and west of large ravine, about 100 feet downstream from where contour turns up deep hollow, about 12 feet upstream from split rock outcrop hanging over lake, 15.0 feet from 12-inch black gum, 6.0 feet from 4-inch pine, and 15.5 feet from 3-inch white oak. A standard TVA tablet stamped "ASR 14 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (North Carolina): X = 438,206.9; Y = 552,004.8 (T-4)  
Grid Azimuth to ASR 13 (distance 808.4 feet): 44°01'10".  
ELEVATION: 1284.4 feet (T-4)

ASR 15 (TVA, 1941; Cherokee County, North Carolina)

Located on left bank of Hiwassee River, approximately 3/4 mile downstream and around bend from mouth of Anderson Creek, about 600 feet upstream from hollow having branch and trail going up right bank of branch about 100 feet upstream from 12-inch double lone hemlock, 5.6 feet northwest of 14-inch poplar, 10.2 feet east of 20-inch poplar, and 7.8 feet southeast of 4-inch sweet gum. A standard TVA tablet stamped "ASR 15 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GRID POSITION (North Carolina): X = 442,404.0; Y = 547,067.9 (T-4)  
Grid Azimuth to ASR 16 (distance 674.7 feet): 209°14'30".  
ELEVATION: 1286.0 feet (T-4)

ASR 16 (TVA, 1941; Cherokee County, North Carolina)

Located on right bank of Hiwassee River, approximately 2500 feet downstream from mouth of Anderson Creek, about 700 feet upstream from small hollow in which is a trail and in the mouth stands a 30-inch yellow poplar, about 150 feet upstream from 6-inch leaning oak bent over lake, 21.1 feet west of 5-inch hickory, 9.9 feet southeast of 12-inch black oak, and 25.8 feet south of 14-inch red oak. A standard TVA tablet stamped "ASR 16 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (North Carolina): X = 442,733.7; Y = 547,656.6 (T-4)  
Grid Azimuth to ASR 15 (distance 674.7 feet): 29°14'30".  
ELEVATION: 1285.8 feet (T-4)

ASR 17 (TVA, 1941; Cherokee County, North Carolina)

Located directly opposite first branch upstream from Anderson Creek, about 200 feet upstream from lone 12-inch dead top chestnut oak which is standing on point of ridge in Hamby Bend, 3.4 feet northwest of 10-inch pine, 8.4 feet north of 3-inch oak, and 27.5 feet east of 16-inch hemlock (east one of group). A standard TVA tablet stamped "ASR 17 1941" and set in concrete monument; upper side of monument level with ground, lower side .5 foot above ground. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (North Carolina): X = 445,671.7; Y = 549,014.1 (T-4)  
Grid Azimuth to ASR 18 (distance 844.2 feet): 218°49'50".  
ELEVATION: 1285.0 feet (T-4)

ASR 18 (TVA, 1941; Cherokee County, North Carolina)

Located on high bank of Hiwassee River, approximately 400 feet upstream from mouth of Anderson Creek, approximately 200 feet downstream from small ravine, 10 feet east of center line of woods road to lake, 5.2 feet southwest of 5-inch pine, 12.2 feet northwest of 8-inch pine, and 10.0 feet southwest of 10-inch pine. A standard TVA tablet stamped "ASR 18 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GRID POSITION (North Carolina): X = 446,201.0; Y = 549,671.8 (T-4)  
Grid Azimuth to ASR 17 (distance 844.2 feet): 38°49'50".  
ELEVATION: 1285.1 feet (T-4)

ASR 19 (TVA, 1941; Cherokee County, North Carolina)

Located approximately 3/4 mile downstream from Hiwassee Dam, 1/4 mile downstream from gaging station. Station is on left bank, 5 feet downstream from downstream edge of large boulder, 3.7 feet west of 10-inch chestnut oak, 6.0 feet northwest of 10-inch poplar, and 16.6 feet north of 4-inch hickory. A standard TVA tablet stamped "ASR 19 1941" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (North Carolina): X = 449,094.6; Y = 547,790.6 (T-4)  
Grid Azimuth to ASR 20 (distance 560.9 feet): 153°25'00".  
ELEVATION: 1285.4 feet (T-4)

ASR 20 (TVA, 1941; Cherokee County, North Carolina)

Located on right bank of Hiwassee River, approximately 1/4 mile downstream from gaging station 200 feet upstream from large twin rock which is in the mouth of ravine and extends into lake, 7.7 feet south of 3-inch dogwood, 8.8 feet east of 3-inch hickory, and 27.2 feet southeast of 10-inch hickory. A standard TVA tablet stamped "ASR 20 1941" and set in concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GRID POSITION (North Carolina): X = 448,783.6; Y = 548,292.2 (T-4)  
Grid Azimuth to ASR 19 (distance 560.9 feet): 333°25'00".  
ELEVATION: 1283.7 feet (T-4)

BEAVER DAM TOWER (USGS, 1937; Cherokee-Monroe Counties, N. Carolina-Tennessee)

Located about 14 miles north-northwest of Murphy, North Carolina. Station is tower on top of Beaver Dam Bald.

Report on Condition (TVA, 1953): Beaverdam Bald Fire Tower was removed in 1950. Station is now small drill hole near northeast end of concrete footing of old steps at intersection of four tower footings.

GEOCENTRIC POSITION: Lat. = 35°14'59.322"; Long. = 84°07'30.807" (G-3)

To Station	Geodetic Azimuths		Distances	
	Azimuth	Back Azimuth	Log.Meters	Miles
Ironsburg	83°14'27.9"	263°06'17.1"	4.335723	13.5
Waucheesi L.O.	109°00'32.8"	288°57'19.5"	3.952037	5.6
McDaniel	274°43'29.6"	94°47'36.3"	4.035089	6.7
Pain	329°06'51.4"	149°10'04.3"	4.217750	10.3
Forest Service Mon	447°24'08"		41.16	feet

GRID POSITION (North Carolina): X = 470,507.4; Y = 585,321.8 (G-3)

GRID POSITION (Tennessee): X = 2,559,764.7; Y = 317,620.6 (G-3)

GRID POSITION (Georgia West): X = 512,373.3; Y = 1,909,834.0 (G-3)

ELEVATION: 4259 feet (T-5)

HM 7 (TVA, 1937; Cherokee County, North Carolina)

Located about 1.5 miles upstream from Hamby Bend, on inside of first hairpin turn above Administration Building at Hiwassee Dam. Boulder is approximately 50 feet from east edge of road, 15 feet southwest of 36-inch tree, and 0.6 mile from dam axis. A chiseled square on large boulder.

ELEVATION: 1376.244 feet or 419.480 meters (T-2)

HM 8 (TVA, 1937; Cherokee County, North Carolina)

Located on east end of first concrete pipe culvert, south of power line crossing over road, and 1.03 miles from dam axis. A chiseled square.

ELEVATION: 1542.136 feet or 470.044 meters (T-2)

HM 10 (TVA, 1937; Cherokee County, North Carolina)

Located south of "Carl Center Furniture Company" sign and 2.99 miles southwest from dam axis. A chiseled square on west end of first concrete pipe culvert.

NOTE: Searched for but not recovered, May 1957.  
ELEVATION: 1601.873 feet or 488.252 meters (T-2)

**BM 1532.137** (TVA, ? ; Cherokee County, North Carolina)  
 Located at Hiwassee Dam, in top of outer corner of concrete enclosure around headwater well in upper gallery, in upstream left corner of machinery room for No. 2 penstock gate. A standard TVA tablet stamped "1532.137".  
 ELEVATION: 1531.509 feet or 466.805 meters (T-2)

**BM 1542.6** (USGS, 1936; Cherokee County, North Carolina)  
 Located 1.51 miles east of Murphy, 0.7 mile east of Murphy Filter, about 0.15 mile west of foot of hill, on north headwall of concrete culvert. Chiseled square painted "USM 1542.6".  
 ELEVATION: 1542.330 feet or 470.103 meters (G-2)

**BM 1597.8** (USGS, 1933; Cherokee County, North Carolina)  
 Located 1.51 miles south of Murphy, on road to Martins Creek, at horse-shoe bend in road, on concrete culvert over stream from southwest, at south end of east headwall. Chiseled square, painted "1597.8".  
 ELEVATION: 1598.986 feet or 487.372 meters (G-2)

**BM 1598.6** (USGS, 1933; Cherokee County, North Carolina)  
 Located 2.9 miles south of Murphy, on road to Martins Creek, at entrance to old Midway Lake, center of west base of concrete bridge over small stream. Chiseled square, guard rail painted "1598.6".  
 ELEVATION: 1599.83 feet (G-3)

**BM 1599.6** (USGS, 1936; Cherokee County, North Carolina)  
 Located at Murphy, 40 feet southeast of center line of State Highway 10 at point where it leaves Murphy Square towards south, by light post, on concrete curb. Chiseled square, painted "USM 1599.6".  
 ELEVATION: 1599.301 feet or 487.468 meters (G-2)

**BM 1629.8** (USGS, 1933; Cherokee County, North Carolina)  
 Located 4.5 miles south from Murphy, 1.4 miles northeast of Martins Creek School, at store, and east end of north headwall of concrete culvert. Chiseled square, painted "1629.8".  
 ELEVATION: 1631.07 feet (G-3)

**BM 1719.0** (USGS, 1933; Cherokee County, North Carolina)  
 Located 0.9 mile west of Martins Creek School, about 100 feet west of Martin Creek, and on south end of east headwall of concrete culvert. Chiseled square, painted "1719.0".  
 ELEVATION: 1720.256 feet or 524.335 meters (T-2)

**BM 1719.3** (USGS, 1933; Cherokee County, North Carolina)  
 Located 1.6 miles northwest of Suit, 450 feet north of junction of old Oak Park road with old U. S. Route 294, 25 feet northeast of plank bridge, and on north side of road. Chiseled square, painted "BM 1719.3" on boulder.  
 ELEVATION: 1719.46 feet (G-3)

**BM 1737.9** (USGS, 1933; Cherokee County, North Carolina)  
 Located at Sunny Point, 2 miles northeast of Hopewell Church, on north side of road to Flat Creek Church, 5 feet east of small stream, and about 300 feet northwest of Persimmon Creek. Chiseled square, painted "BM 1737.9" on rock.  
 ELEVATION: 1738.00 feet (G-3)

**BM 1786.5** (USGS, 1933; Cherokee County, North Carolina)  
 Located 0.85 mile northeast of Grandview Post Office, 0.65 mile northeast of old Murphy-Unaka Highway, 65 feet southeast of wood bridge over Hanging Dog Creek, 40 feet east of road, and 7 feet south of private road. Chiseled square, painted "USM 1786.5", on top of boulder.  
 ELEVATION: 1786.365 feet or 544.485 meters (G-2)

**BM 1842.6** (USGS, 1933; Cherokee County, North Carolina)  
 Located 2 miles southwest of Martins Creek Consolidated School and in center of south headwall of concrete culvert over Martin Creek. Chiseled square, painted "1842.6".  
 ELEVATION: 1843.845 feet or 562.005 meters (T-2)

**BM 1850.9** (USGS, 1933; Cherokee County, North Carolina)  
 Located 0.9 miles south of Grandview Post Office, about 800 feet southeast of White Church School, 26 feet northeast of small stream, and on point of rock. Chiseled square, painted "1850.9".  
 ELEVATION: 1852.38 feet (G-3)

**BM 3370.4** (USGS, 1931; Cherokee County, North Carolina)  
 Located in Tipton Gap, at trail crossing, south side of trail, on ledge. Square cut, painted "BM 3370.4".  
 ELEVATION: 3370.23 feet (G-3)

**BM 3416.0** (USGS, 1931; Cherokee County, North Carolina)  
 Located 0.5 mile northwest of Tipton Gap, in Jenks Gap, 50 feet east of trail fork on boulder, about 1 mile (airline) northwest of Tipton Knob. Square cut, painted "BM 3416".  
 ELEVATION: 3416.17 feet (G-3)

**BRYSON** (USFS, 1934; Cherokee County, North Carolina)  
 Located on the south end of a high mountain known as Turner Top, about 3 miles northwest of Unaka. To reach from Murphy, take the Unaka Road, 14 miles to Unaka, thence 1 mile out road toward Violet, thence turn out side road to right and drive to the H. L. Murphy place, about 1/2 mile. Leave car and take trail up ridge to northwest about 1 mile to station. A USFS standard concrete post stamped "637-1935".  
 Reference Mark 1: 37.6 feet N 18° E to blazed 5-inch hickory scribed "BT 637".  
 Reference Mark 2: 2.0 feet S 50° E to blazed 7-inch double red oak scribed "BT 637".

GEODETIC POSITION: Lat. = 35°12'31.710"; Long. = 84°10'42.180" (G-3)

To Station	Geodetic Azimuths	Distances		
	Azimuth	Back Azimuth	Log. Meters	Miles
Pack	29°09'17.0"	209°05'33.6"	4.304969	12.541
Little Frog	60 00 48.8	239 52 27.7	4.405730	15.815
Ironsburg	96 48 07.2	276 41 47.4	4.225104	10.434
Buck Knob	319 56 44.4	139 58 47.0	3.922843	5.203

GRID POSITION (North Carolina): X = 453,880.0; Y = 571,243.0 (G-3)  
 GRID POSITION (Tennessee): X = 2,544,172.3; Y = 302,399.0 (G-3)  
 ELEVATION: 3244 feet (T-5)

**BUCK KNOB = F.S. MON. 671** (USFS, 1935; Cherokee County, North Carolina)  
 Located on the summit of a high knob known as "Buck Knob", approximately 11 miles northwest from Murphy. To reach from Murphy, take the Unaka road 11 miles to Ogreeta Church, take side road to right, approximately 1 mile to R. P. Johnson's, leave car. Go up ridge following dim trail to top of Buck Knob. A USFS standard concrete post marked "671 1935".  
 Reference Mark 1: 343 feet N 63° W to 5-inch locust, blazed and scribed "BT 671".  
 Reference Mark 2: 4.0 feet S 87° E to 6-inch locust, blazed and scribed "BT 671".

GEODETIC POSITION: Lat. = 35°09'03.710"; Long. = 84°07'09.330" (G-3)

To Station	Geodetic Azimuths	Distances		
	Azimuth	Back Azimuth	Log. Meters	Miles
Pack	53°38'38.9"	233°32'53.4"	4.276614	11.748
Little Frog	77 04 31.3	256 54 08.1	4.449479	17.491
Bryson	139 58 47.0	319 56 44.4	3.922843	5.203

GRID POSITION (North Carolina): X = 470,433.4; Y = 549,328.2 (G-3)  
 GRID POSITION (Tennessee): X = 2,562,236.7; Y = 281,706.8 (G-3)  
 ELEVATION: 2584 feet (T-5)

**C-1** (USED, 1923; Cherokee County, North Carolina)  
 Located about 1-1/2 miles south of Murphy, near the northeast corner of E. J. Killian's house where concrete highway turns out of valley, and 0.8 mile above the Louisville and Nashville bridge over the Hiwassee River. An iron pipe in concrete.  
 ELEVATION: 1536.785 feet or 468.413 meters (G-2)

**CAT TOWER 1** (TVA, 1948; Cherokee County, North Carolina)  
 Located at Hiwassee Dam, under center of cable suspension tower, at northwest end of dam. Angle iron.  
 GRID POSITION (North Carolina): X = 452,670.9; Y = 550,855.0 (T-3)  
 Grid Azimuth to NAVY E (distance 176.2 feet): 339°27'50".

**CAT TOWER 2** (TVA, 1948; Cherokee County, North Carolina)  
 Located at Hiwassee Dam, under center of cable suspension tower, at southeast end of dam. Angle iron.  
 GRID POSITION (North Carolina): X = 453,811.4; Y = 550,121.1 (T-3)

**CAT TOWER 3** (TVA, 1948; Cherokee County, North Carolina)  
 Located at Hiwassee Dam, under center of cable suspension tower, at northwest end of the dam. Angle iron.  
 GRID POSITION (North Carolina): X = 452,710.1; Y = 550,916.0 (T-3)  
 Grid Azimuth to NAVY E (distance 227.2 feet): 354°16'10".

**CAT TOWER 4** (TVA, 1948; Cherokee County, North Carolina)  
 Located at Hiwassee Dam, under center of cable suspension tower, at southeast end of the dam. Angle iron.  
 GRID POSITION (North Carolina): X = 453,850.5; Y = 550,182.4 (T-3)

**CONSTRUCTION MONUMENT 1312.021** (TVA, ? ; Cherokee County, North Carolina)  
 Located at Hiwassee Dam, on the Powerhouse Service Bay Deck. Original construction tablet is a 4-inch control tablet ground off smooth, punched and stamped "D5291.00 1588870 EL. 1312.021", and set on generator deck downstream from rotor hatch.  
 ELEVATION: 1311.41 feet (T-3)

**CONSTRUCTION MONUMENT 1312.031** (TVA, ? ; Cherokee County, North Carolina)  
 Located on top of generator deck and just downstream from center of #1 or old generator. Control tablet, originally stamped "1312.040" was restamped "1312.031" in 1954 by Construction Division.  
 ELEVATION: 1311.42 feet (T-3)

**EM 1** (TVA, 1939; Cherokee County, North Carolina)  
 Located 0.2 mile southeast of Friendship (Suit Post Office) following State Highway 294, 15 feet from center line of highway, and 4 feet lower than the highway. A standard TVA tablet stamped "EM 1" and set in inlet pipe culvert headwall.  
 ELEVATION: 1780.6 feet (T-4)

**EM 2** (TVA, 1939; Cherokee County, North Carolina)  
 Located 0.5 mile southeast of Friendship (Suit Post Office) following State Highway 294, 12 feet from center line, and 1.0 foot lower than highway. A standard TVA tablet stamped "EM 2" and set in inlet pipe culvert headwall.  
 ELEVATION: 1728.2 feet (T-4)

**EM 3** (TVA, 1939; Cherokee County, North Carolina)  
 Located 0.9 mile southeast of Friendship (Suit Post Office) following State Highway 294, 12 feet from center line of highway, and level with highway. A standard TVA tablet stamped "EM 3" and set in inlet pipe culvert headwall.  
 ELEVATION: 1628.1 feet (T-4)

**EM 4** (TVA, 1939; Cherokee County, North Carolina)  
 Located 1.4 miles southeast of Friendship (Suit Post Office) following State Highway 294, 12 feet from center line, and level with highway. A standard TVA tablet stamped "EM 4" and set in inlet pipe culvert headwall.  
 ELEVATION: 1593.0 feet (T-4)

**EM 5** (TVA, 1939; Cherokee County, North Carolina)  
 Located 2.0 miles southeast of Friendship (Suit Post Office) following State Highway 294, 15 feet from center line, and 3 feet lower than highway. A standard TVA tablet stamped "EM 5" and set in mid-span of inlet headwall of 5- by 3-foot concrete box culvert.  
 ELEVATION: 1538.6 feet (T-4)

**EM 6** (TVA, 1939; Cherokee County, North Carolina)  
 Located 2.3 miles southeast of Friendship (Suit Post Office) following State Highway 294, on bridge over Persimmon Creek, at Lake Cherokee, and 12 feet from southeast end of bridge. A standard TVA tablet stamped "EM 6" and set on bridge in east wheel guard.  
 ELEVATION: 1534.4 feet (T-4)

**EM 7** (TVA, 1939; Cherokee County, North Carolina)  
 Located approximately 5 miles southwest of Murphy, following old U. S. Highway 64 at Kinsey, 18 feet from center line, and 1 foot lower than highway. A standard TVA tablet stamped "EM 7" and set in mid-span of inlet headwall of 10- by 8-foot concrete box culvert.  
 ELEVATION: 1529.7 feet (T-4)

- EM 8** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 0.2 mile southeast of old U. S. Highway 64 following Cane Creek Road, at Kinsey School, 15 feet from center line of road, and 3.5 feet lower than road. A standard TVA tablet stamped "EM 8" and set in inlet headwall of pipe culvert.  
ELEVATION: 1604.1 feet (T-4)
- EM 9** (TVA, 1939; Cherokee County, North Carolina)  
Located 0.35 mile southeast of old U. S. Highway 64 following Cane Creek Road, near Kinsey School, 12 feet from center line of road, and 1.5 feet lower than road. A standard TVA tablet stamped "EM 9" and set in inlet headwall of pipe culvert.  
ELEVATION: 1544.0 feet (T-4)
- EM 10** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 3.7 miles southwest of Murphy, following old U. S. Highway 64, 18 feet from center line of highway, and 2 feet lower than highway. A standard TVA tablet stamped "EM 10" and set in inlet headwall pipe culvert.  
ELEVATION: 1531.6 feet (T-4)
- EM 11** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 3.0 miles southwest of Murphy, following old U. S. Highway 64, and 12 feet from center line of highway. A standard TVA tablet stamped "EM 11" and set in mid-span of south headwall of 4- by 4-foot concrete box culvert.  
ELEVATION: 1530.9 feet (T-4)
- EM 12 A** (TVA, 1963; Cherokee County, North Carolina)  
Located .4 mile southeast of town square of Murphy, on U. S. Highways 19 and 64 right of way. Tablet in center of top of inlet end of a 5- by 10-foot concrete box culvert under new location of U. S. Highways 19 and 64, 850 feet southeast of left bank end of new concrete bridge over Hiwassee River. A standard TVA tablet (raised center) stamped "EM 12 A".  
ELEVATION: 1528.52 feet (T-3)
- EM 13** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 0.9 mile west of U. S. Highway 19 following old Hayesville Road, approximately 1 mile (airline) southeast of Murphy, on bridge across Martin Creek, 10 feet from center line of bridge, and 1.5 feet lower. A standard TVA tablet stamped "EM 13" and set in upstream corner of west bridge abutment.  
ELEVATION: 1529.5 feet (T-4)
- EM 14** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 0.25 mile northwest of Martin Creek following old Hayesville Road, about 1 mile (airline) southeast of Murphy, 15 feet from center line of road, and 3 feet lower. A standard TVA tablet stamped "EM 14" and set in outlet pipe culvert headwall.  
ELEVATION: 1528.5 feet (T-4)
- EM 15** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 0.4 mile northeast of center of Murphy following Sunset Drive. Culvert is 500 feet east of Valley River highway bridge, and 10 feet from center line of road. A standard TVA tablet stamped "EM 15" and set in mid-span of inlet headwall of 8- by 5-foot concrete box culvert.  
ELEVATION: 1533.7 feet (T-4)
- EM 16** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 0.3 mile northwest of center of Murphy following the Joe Brown Highway. Station is in viaduct over Southern Railway tracks. A standard TVA tablet stamped "EM 16" and set in north wheel guard on bridge.  
ELEVATION: 1564.5 feet (T-4)
- EM 17** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 0.5 mile northwest of center of Murphy following the Joe Brown Highway, on bridge over Valley River, near middle of bridge, and about 300 feet upstream from junction of Valley River and Hiwassee River. A standard TVA tablet stamped "EM 17" and set in upstream side of north abutment on bridge.  
ELEVATION: 1536.8 feet (T-4)
- EM 18** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 250 feet south of north corporate limits of Murphy following Joe Brown Highway, 1.1 miles northwest of Murphy, and 100 feet west of end of Southern Railroad "Y". A standard TVA tablet stamped "EM 18" and set in inlet pipe culvert headwall.  
ELEVATION: 1636.2 feet (T-4)
- EM 19** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 1.5 miles north of Murphy following Joe Brown Highway. Station is about 800 feet south of TVA transmission line crossing highway, 150 feet west of small stream, and on the northwest side of road. A standard TVA tablet stamped "EM 19" and set in inlet headwall of pipe culvert.  
ELEVATION: 1707.8 feet (T-4)
- EM 20** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 2 miles north of Murphy following Joe Brown Highway. Station is 150 feet northwest of Carver Gap, on west side of highway, about 200 feet south of home of Wiley Wilson. A standard TVA tablet stamped "EM 20" and set in inlet headwall of pipe culvert.  
ELEVATION: 1859.3 feet (T-4)
- EM 21** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 2.7 miles northwest from Murphy following Joe Brown Highway. Station is at intersection of Joe Brown Highway and Grandview Road, on upstream end of culvert at Laurel Branch, and 100 feet northeast of home of James Hembree. A standard TVA tablet stamped "EM 21" and set in inlet headwall of 8- by 5-foot concrete box culvert.  
ELEVATION: 1700.4 feet (T-4)
- EM 22** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 3 miles northwest of Murphy following Joe Brown Highway, about 250 feet south of Bates Creek, about 1000 feet northwest of Marr Gap, and on southeast side of highway. A standard TVA tablet stamped "EM 22" and set in inlet headwall of pipe culvert.  
ELEVATION: 1677.8 feet (T-4)
- EM 23** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 3.5 miles northwest of Murphy following the Joe Brown Highway, 115 feet south of Bates Creek, about 1000 feet northeast of Hanging Dog Creek, and on southeast side of road. A standard TVA tablet stamped "EM 23" and set in mid-span of inlet headwall of 3- by 3-foot concrete box culvert.  
ELEVATION: 1556.1 feet (T-4)
- EM 24** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 4 miles northwest of Murphy following the Joe Brown Highway, at bridge over Hanging Dog Creek. A standard TVA tablet stamped "EM 24" and set in north curb of west bridge abutment.  
ELEVATION: 1534.4 feet (T-4)
- EM 25** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 4.5 miles northwest of Murphy, following the Joe Brown Highway, about 300 feet northwest of small stream and 0.5 mile northwest of bridge crossing Hanging Dog Creek, about 1000 feet east of Will Dockery's residence. A standard TVA tablet stamped "EM 25" and set in inlet pipe culvert headwall.  
ELEVATION: 1532.3 feet (T-4)
- EM 26** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 5.8 miles northwest of Murphy following the Joe Brown Highway. A standard TVA tablet stamped "EM 26" and set in mid-span of inlet headwall of 5- by 4-foot concrete box culvert.  
ELEVATION: 1609.6 feet (T-4)
- EM 27** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 6.3 miles northwest of Murphy, following the Joe Brown Highway. A standard TVA tablet stamped "EM 27" and set in mid-span of inlet headwall of 4- by 4-foot concrete box culvert.  
ELEVATION: 1629.4 feet (T-4)
- EM 28** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 6.4 miles northwest of Murphy following the Joe Brown Highway. A standard TVA tablet stamped "EM 28" and set in outlet pipe culvert headwall.  
ELEVATION: 1628.6 feet (T-4)
- EM 29** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 6.6 miles northwest of Murphy following the Joe Brown Highway. A standard TVA tablet stamped "EM 29" and set in outlet pipe culvert headwall.  
ELEVATION: 1560.6 feet (T-4)
- EM 30** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 7 miles northwest of Murphy, at Grape Creek, following the Joe Brown Highway. A standard TVA tablet stamped "EM 30" and set in east abutment, top of wingwall of bridge.  
ELEVATION: 1536.9 feet (T-4)
- EM 31** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 7.6 miles northwest of Murphy following the Joe Brown Highway. A standard TVA tablet stamped "EM 31" and set in inlet pipe culvert headwall.  
ELEVATION: 1555.9 feet (T-4)
- EM 32** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 8 miles northwest of Murphy following the Joe Brown Highway. A standard TVA tablet stamped "EM 32" and set in mid-span of the inlet headwall 4- by 4-foot concrete box culvert.  
ELEVATION: 1537.2 feet (T-4)
- EM 33** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 9 miles northwest of Murphy following the Joe Brown Highway. A standard TVA tablet stamped "EM 33" and set in inlet headwall of pipe culvert.  
ELEVATION: 1537.6 feet (T-4)
- EM 34** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 0.2 mile north of Ogeeta Baptist Church following the Joe Brown Highway. A standard TVA tablet stamped "EM 34" and set in inlet headwall of pipe culvert.  
ELEVATION: 1553.3 feet (T-4)
- EM 35** (TVA, 1939; Cherokee County, North Carolina)  
Located approximately 0.5 mile north of Ogeeta Baptist Church following the Joe Brown Highway. A standard TVA tablet stamped "EM 35" and set in inlet pipe culvert headwall.  
ELEVATION: 1544.3 feet (T-4)
- FAIN** (USGS, 1933; Cherokee County, North Carolina)  
Located on Bald Knob, about 2-1/2 miles north of Murphy, and 1/2 mile southwest of and about 150 feet lower than Fains Knob. To reach from Murphy, follow main street northwest from center of town (passing Dickey Hotel and post office) to bridge crossing Valley River, continue 0.2 mile, take right fork of asphalt road to dirt road turning left directly opposite small brick mill building, turn left, continue 1.25 miles to top of grade where main road continues straight ahead, take right fork (very rough) up ridge, follow about 0.5 mile to point where main road turns left into draw and old wagon road leads up ridge to right, take right fork (very steep) up ridge about 0.35 mile to point where road bears right around mountain to top of ridge, turn sharp left and continue 0.4 mile to top of ridge, and follow along ridge about 0.25 mile to station site. Station is in apple orchard in center of long level ridge, about 50 yards from south end, and 6 feet east of dim road leading to it. Surface mark is a standard United States Geological Survey bench mark, stamped "U.S.C.&G.S. 1933", in drill hole on top of 4- by 6-inch cut-stone post. Underground mark is a block of concrete 3 feet below the ground containing at the center of its upper surface a standard disk triangulation station mark. Reference marks are standard disk reference marks 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 is at edge of easterly slope of ridge, nearly in line with station "Lance", about 8 feet northwest of large apple tree, and 14.914 meters (48.93 feet) from station in geodetic azimuth 353°56'.

Reference Mark 2 is along center of ridge, 6 feet east of center line of dim road leading to station, 3 feet west of cultivated area, and about 150 yards from station in geodetic azimuth 212°58'14".  
Reference Mark 3 is along center of ridge, about 9 feet east of dim dirt road leading to station, 7 feet south of apple tree, and 20.586 meters (67.54 feet) from station in geodetic azimuth 218°30'.

GEODETIC POSITION: Lat. = 35°07'19.419"; Long. = 84°01'56.097" (C-2)  
Geodetic Azimuths  
Distance  
To Station (from South) Log. Meters Meters

To Station	Geodetic Azimuths (from South)	Log. Meters	Meters
Murphy	0°19'04.8"	3.572464	3,736.5
Tatham USGS	235°07'44.7"	4.419800	26,290.6
Lance	350°34'14.7"	4.197310	15,751.1

Third-order  
Azimuth Mark (RM 2) 212 58 14.4  
GRID POSITION (North Carolina): X = 495,873.92; Y = 537,469.47 (C-2)  
Grid Azimuth to Azimuth Mark (RM 2): 215°52'30".  
GRID POSITION (Georgia West): X = 540,195.27; Y = 1,863,364.71 (C-2)  
GRID POSITION (Tennessee): X = 2,588,456.12; Y = 271,675.81 (C-2)  
ELEVATION: 2561 feet (T-5)

**FAIN REFERENCE MARK 2** (USGS, 1933; Cherokee County, North Carolina)  
For description, see triangulation station "FAIN".  
GRID POSITION (Tennessee): X = 2,588,794.8; Y = 272,221.8 (T-4)  
ELEVATION: 2563 feet (T-5)

**F. S. 258 = MCD 9** (USFS, 1932; Monroe-Cherokee Counties, Tennessee-N. Carolina)  
Located on Tennessee-North Carolina State line corner in small clear spot on highest point on Round Top Mountain. To reach from post office in Unaka, North Carolina, go north on Beaverdam Gap Road for about 1 mile, turn left up Copper Creek Road, drive to home of Oliver Grayson, last house up Copper Creek Road. Leave car and walk up Groundhog Ridge to high point and station. Station stands 1.5 feet high in middle of a pile of stone boulders. A forest service monument stamped "258 1932 Tenn. N.C."  
GRID POSITION (Tennessee): X = 2,549,526.5; Y = 315,900.6 (T-4)  
ELEVATION: 3698 feet (T-5)

**GAGE RM 1 (Hivasssee)** (USGS, 1934; Cherokee County, North Carolina)  
Located on left bank of Hivasssee River at Mile 75.3, about 3600 feet downstream from Hivasssee Dam, about 2500 feet downstream from the TVA construction bridge over river, 14 feet shoreward, 10 feet upstream from gage well, and 16.08 feet above gage zero. A standard USGS bronze reference tablet set in high point of large boulder.  
ELEVATION: 1280.08 feet (G-3)

**GAGE RM 1 (Nottely)** (USGS, 1934; Cherokee County, North Carolina)  
Located on left bank of Nottely River, 1/2 mile downstream from Ranger, at River Mile 8.7, 250 feet upstream from new concrete bridge over Nottely River, 200 feet upstream from U. S. Highway 64 bridge over Nottely River, in downstream end of concrete slab at foot of approach to gage well, and 14.30 feet above gage zero. A standard USGS bronze reference tablet set in concrete slab.  
ELEVATION: 1558.59 feet (T-3)

**GAGE RM 2 (Hivasssee)** (USGS, 1934; Cherokee County, North Carolina)  
Located on left bank of Hivasssee River at Mile 75.3, about 3600 feet downstream from Hivasssee Dam, about 2500 feet downstream from the TVA construction bridge over river, in top of downstream end of large boulder, 8 feet streamward, 9 feet upstream from gage well, and 11.21 feet above gage zero. A standard USGS bronze reference tablet set in large boulder.  
ELEVATION: 1275.21 feet (G-3)

**GAGE RM 2 (Nottely)** (USGS, 1934; Cherokee County, North Carolina)  
Located on left bank of Nottely River, 1/2 mile downstream from Ranger, North Carolina, at River Mile 8.7, 240 feet upstream from southwest corner of west abutment of new concrete bridge over Nottely River, 188 feet upstream from U. S. Highway 64 bridge over Nottely River, in top of low water gage post, 12 feet downstream from gage well, and 3.48 feet above gage zero. A standard USGS bronze reference tablet set in post.  
ELEVATION: 1547.76 feet (T-3)

**GWM 78** (USGS, 1936; Cherokee County, North Carolina)  
Located 2.3 miles east of square at Murphy, 50 feet southeast of secondary road fork north, 8.6 feet below road level on U. S. Highway 64, on west end of south headwall of large concrete culvert over Will Scott Creek. A standard USGS tablet stamped "GWM 78 1936 1551", painted "U.S.P.B.M. 1550.6".  
Reference mark is 290 feet west of tablet on west end of north headwall of small concrete culvert; chiseled square 8.38 feet higher than tablet.  
ELEVATION: 1550.286 feet or 472.528 meters (G-2)

**GWM 111** (USGS, 1936; Cherokee County, North Carolina)  
Located 4.4 miles northeast of Grandview, 2.35 miles southwest of Lucy Gap, 0.75 miles northeast of Boiling Springs Church, 43 feet north of road fork, north, 16 feet northwest of culvert over creek, at group of boulders between T-road north and creek. A standard USGS tablet stamped "GWM 111 1936 2039", painted "U.S.P.B.M. 2039.0" in top of boulder. Steel post with control marker sign set 4 feet north of tablet.  
Reference Mark 1: 18.4 feet Southeast to cross in headwall of culvert.  
Reference Mark 2: 51.4 feet East to cross in 8-inch persimmon.  
ELEVATION: 2038.894 feet or 621.456 meters (G-2)

**GWM 112** (USGS, 1936; Cherokee County, North Carolina)  
Located 2.0 miles northeast of Grandview Post Office, 1.65 miles southwest of Boiling Springs Church, 175 feet south of log barn, on top of hill, 60 feet southeast of road, in pasture. A standard USGS tablet stamped "GWM 112 1936 1856", painted "U.S.P.B.M. 1856.0" in top of large boulder. Steel post with control marker sign set 2.5 feet northwest of tablet.  
Reference Mark 1: 35.8 feet East to painted cross on flint rock.  
Reference Mark 2: 45.0 feet Northwest to painted cross on fence post on south side of road.  
ELEVATION: 1855.905 feet or 565.681 meters (G-2)

**H 9** (TVA, 1937; Cherokee County, North Carolina)  
Located about 4.7 miles northwest from Murphy, on the Unaka Highway, about 100 feet southeast of house owned by R. E. Carter, about 80 feet northeast of old mill site, about 75 feet north and on opposite side of road from old store. A chiseled square on east concrete headwall of culvert across Unaka Highway.  
ELEVATION: 1632.877 feet or 497.702 meters (T-2)

**H 11** (TVA, 1937; Cherokee County, North Carolina)  
Located about 5.5 miles northwest from Murphy, on the Unaka Highway, on the east end of the south concrete wall of culvert, about 500 feet west of the house owned by Fred Carrol, north of and adjacent to an old apple orchard, across highway from new 1-story frame house. A cross on concrete wall of culvert.  
ELEVATION: 1587.041 feet or 483.731 meters (T-2)

**H 12** (TVA, 1937; Cherokee County, North Carolina)  
Located about 5.9 miles northwest from Murphy, on the Unaka Highway, in the east (upstream) headwall on the east side of road, approximately 150 feet northwest of chimney on Dukes Lodge. A cross in concrete headwall.  
ELEVATION: 1532.805 feet or 467.200 meters (T-2)

**HD 3** (TVA, 1935; Cherokee County, North Carolina)  
Located on left bank of Hivasssee River, at Mile 75.8, 500 feet west of Hivasssee Dam Axis, and 50 feet from water's edge. A standard TVA tablet stamped "HD 3 1935" and set in concrete monument.  
ELEVATION: 1287.32 feet (T-3)

**HD 90** (TVA, 1937; Cherokee County, North Carolina)  
Located in the northeast end of a culvert on the Hivasssee Dam-Turtletown Road, 6.4 miles southwest of the Hivasssee Dam, near Fields of the Wood, 325 feet from T. M. Klrod's house, 175 feet from his barn, and on a culvert over Camp Branch. A standard TVA tablet stamped "HD 90 1937" and set in precast concrete monument.  
ELEVATION: 1696.158 feet or 516.990 meters (T-2)

**HDR 3** (TVA, 1937; Cherokee County, North Carolina)  
Located near Reids Chapel, in Civil District 8, on south side of access road, on property of S. E. and Dora Quinn, on east edge of branch in pasture, 134.7 feet southeast of 6-inch apple tree in garden, 76.55 feet southeast of southwest corner of south wingwall on concrete culvert on access road over branch, and 75.1 feet northeast of 4-inch hemlock. A 2- by 2-inch bronze tablet stamped "HDR 3 1937" and set in concrete monument. Steel post with control marker sign set approximately 1 foot south of monument.  
GRID POSITION (North Carolina): X = 443,719.6; Y = 541,745.7 (T-4)  
ELEVATION: 1526.565 feet or 465.298 meters (T-2)

**HDR 46** (TVA, 1937; Cherokee County, North Carolina)  
Located about 1.0 mile northeast of Reids Chapel, in Civil District 8, on property of Fulbar Nelson, on the south side of access road, 7.46 feet west of southwest corner of house, 79.67 feet northwest of 16-inch apple tree, and 26.94 feet north of northwest corner of Pat Proffitt's store. A 2- by 2-inch bronze tablet stamped "HDR 46 1937" and set in concrete monument. Steel post with control marker sign set approximately 1 foot northeast of monument.  
GRID POSITION (North Carolina): X = 449,768.4; Y = 543,462.3 (T-4)  
ELEVATION: 1647.595 feet or 502.188 meters (T-2)

**HDR 85** (TVA, 1937; Cherokee County, North Carolina)  
Located on Hivasssee Access Road, approximately 1 mile south of Hivasssee Dam. Station is a right of way marker. Steel post with control marker sign set approximately 1 foot west of monument.  
Reference Mark 1: 5.0 feet S 80° E to painted cross on 4-inch pine.  
Reference Mark 2: 29.8 feet S 65° W to painted cross on 12-inch gum.  
Reference Mark 3: 7.0 feet N 80° W to painted cross on 3-inch pine.  
ELEVATION: 1698.930 feet or 517.835 meters (T-2)

**HIVASSSEE TANK** (TVA, 1940; Cherokee County, North Carolina)  
Water tank located in Hivasssee Village.  
GEODETIC POSITION: Lat. = 35°09'00.13"; Long. = 84°10'27.98" (T-4)  
GRID POSITION (North Carolina): X = 453,942.0; Y = 549,822.0 (T-4)  
GRID POSITION (Georgia West): X = 491,668.7; Y = 1,873,517.3 (T-4)  
GRID POSITION (Tennessee): X = 2,545,749.3; Y = 281,032.9 (T-4)  
ELEVATION (Ground): 1712.7 feet (T-4)

**HMH 19** (TVA, 1937; Cherokee County, North Carolina)  
Located .7 mile northwest of Regal, North Carolina. Take U. S. Highway 19 east from Murphy, 3 mile to Calhoun's store, thence left 0.2 mile along dirt road to Venerer Plant, thence left along dirt road, crossing railroad track at 0.2 mile, 0.5 mile to top ridge, thence walk east 50 feet to station, 15.6 feet S 65° E of 6-inch blackjack, 8.4 feet N 16° E of 4-inch blackjack, and 12.5 feet S 14° W of 4-inch blackjack. Station is an iron pipe on top ridge.  
GEODETIC POSITION: Lat. = 35°07'33.61"; Long. = 84°00'32.29" (T-4)  
GRID POSITION (North Carolina): X = 502,898.6; Y = 538,550.3 (T-4)  
ELEVATION: 1945 feet (T-5)

**HR 3** (TVA, 1935; Cherokee County, North Carolina)  
Located 2.5 miles southeast from Murphy, along old highway leading to Peachtree, 2 feet from outside edge of old abandoned road, on the property of Frank and Scott Lancy, between Axley's Bluff and right bank of Hivasssee River. A standard TVA tablet stamped "HR 3" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot northwest of monument.  
Reference Mark 1: 24.3 feet N 25° W to cross on rock.  
Reference Mark 2: 25.7 feet N 60° E to cross on rock.  
Reference Mark 3: 18.1 feet N 15° E to cross on rock.  
GEODETIC POSITION: Lat. = 35°04'23.414"; Long. = 84°00'25.962" (T-3)  
GRID POSITION (North Carolina): X = 502,454.1; Y = 519,321.1 (T-3)  
Grid Azimuth to HR 4 (distance 676.3 feet): 358°35'20".  
GRID POSITION (Tennessee): X = 2,596,304.9; Y = 254,035.7 (T-3)  
ELEVATION: 1552.2 feet (T-4)

**HR 4** (TVA, 1935; Cherokee County, North Carolina)  
Located 1-1/2 miles southeast of Murphy, on left bank Hivasssee River, 12 feet north of center line of old Hayesville Road, at toe of slope in yard of J. A. Hampton, 32.8 feet west of 20-inch white pine, 17.5 feet southwest of west corner of chicken house, and 72.9 feet N 10° E of front porch southeast corner post. A standard TVA tablet stamped "HR 4" and set in a precast concrete monument. Steel post with control marker sign set 1 foot southwest of monument.  
GEODETIC POSITION: Lat. = 35°04'16.743"; Long. = 84°00'25.352" (T-3)  
GRID POSITION (North Carolina): X = 502,470.7; Y = 518,645.0 (T-3)  
Grid Azimuth to HR 3 (distance 676.3 feet): 178°35'20".  
GRID POSITION (Tennessee): X = 2,596,369.3; Y = 253,362.4 (T-3)  
ELEVATION: 1546.5 feet (T-4)

**HR 5** (TVA, 1935; Cherokee County, North Carolina)

Located 0.75 mile southeast of Murphy, about 70 feet north of highway, on fence line extending north to Hiwassee River, on left bank, 64.1 feet N 70° E of northeast corner of concrete block house, and 61.0 feet south along old fence line from TVA property marker 112-1. A standard TVA tablet stamped "HR 5" and set in concrete monument. Steel post with control marker sign set 1 foot south of monument.

GEODETTIC POSITION: Lat. = 35°04'37.195"; Long. = 84°01'36.273" (T-3)  
 GRID POSITION (North Carolina): X = 496,688.4; Y = 521,007.7 (T-3)  
 Grid Azimuth to HR 6 (distance 782.7 feet): 213°51'00".  
 ELEVATION: 1530.774 feet or 466.581 meters (G-2)

**HR 6** (TVA, 1935; Cherokee County, North Carolina)

Located 1.0 mile south from square at Murphy, 20 feet from center line of Hayesville Road, 12.50 feet from southeast corner settling tank at Murphy Filter Plant, 52.70 feet from nail and washer in power line pole with 2 transformers located just south of settling tank. Monument is 1 foot behind control marker post at toe of fill and is 1 foot under surface of ground, 11.8 feet from southeast corner of settling tank at Murphy Filter Plant, and 34.25 feet from "W 1" which is on southwest corner of the filter tank. A standard TVA tablet stamped "HR 6" and set in a precast concrete monument. Steel post with control marker sign set 1 foot north of monument.

GEODETTIC POSITION: Lat. = 35°04'43.836"; Long. = 84°01'31.429" (T-3)  
 GRID POSITION (North Carolina): X = 497,124.4; Y = 521,657.8 (T-3)  
 Grid Azimuth to HR 5 (distance 782.7 feet): 33°51'00".  
 ELEVATION: 1536.4 feet (T-4 - Spur)

**HR 7** (TVA, 1935; Cherokee County, North Carolina)

Located 0.75 mile northeast of Murphy, 0.6 mile southwest of Harmony Church, 11.9 feet from south edge of pavement of State Highway 10 right of way. Station is directly in front of home of Roy Wells, at intersection of a prolongation of peak of Wells' home and power line, 31.80 feet from nail and washer in post, 44.25 feet from 5-inch oak tree, and 50.88 feet from power pole. A standard TVA tablet stamped "HR 7" and set in a precast concrete monument.

GEODETTIC POSITION: Lat. = 35°06'21.115"; Long. = 84°00'46.947" (T-3)  
 GRID POSITION (North Carolina): X = 501,312.8; Y = 531,292.5 (T-3)  
 GRID POSITION (Tennessee): X = 2,594,319.3; Y = 265,896.2 (T-3)  
 ELEVATION: 1568 feet (T-5)

**HR 8** (TVA, 1935; Cherokee County, North Carolina)

Located at Murphy, on right bank of Hiwassee River, 220 feet from Walnut Street in westerly direction, 400 feet north of center line of Unaka Road, on the property of William P. Payne. Station is about 60 feet west from poultry house of William P. Payne, about 6 feet south of vine covered fence around small field back of Payne's house, 18.2 feet east of 10-inch pine, 7.7 feet S 80° W of 30-inch black oak, and 27.25 feet from a fence post. A standard TVA tablet stamped "HR 8" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GEODETTIC POSITION: Lat. = 35°05'37.288"; Long. = 84°02'20.737" (T-3)  
 GRID POSITION (North Carolina): X = 493,306.0; Y = 527,262.0 (T-3)  
 Grid Azimuth to HR 9 (distance 534.5 feet): 61°03'00".  
 Grid Azimuth to Centerline Spire on Murphy Courthouse (distance 3033.1 feet): 147°40'40".  
 ELEVATION: 1545.42 feet (T-3)

**HR 9** (TVA, 1935; Cherokee County, North Carolina)

Located in Murphy, 300 feet north of Joe Brown Highway bridge over Valley River, almost opposite junction of Valley River and Hiwassee River, on left bank of Hiwassee Reservoir at point of flat ridge, about 200 feet from the bank, 10 feet above clearing line of Hiwassee Reservoir, at south end and on top of rock bluff extending 10 feet above lake, approximately 55 feet N 45° E from outdoor fireplace, 10.8 feet S 65° W of 6-inch pine, 6.2 feet N 25° E of 2-inch locust, and 12.5 feet north of 2-inch black oak. A standard TVA tablet stamped "HR 9" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GEODETTIC POSITION: Lat. = 35°05'34.497"; Long. = 84°02'26.201" (T-3)  
 GRID POSITION (North Carolina): X = 492,838.3; Y = 527,003.3 (T-3)  
 Grid Azimuth to HR 8 (distance 534.5 feet): 241°03'00".  
 ELEVATION: 1541.4 feet (T-4)

**HR 10** (TVA, 1935; Cherokee County, North Carolina)

Located on the left bank of Hiwassee River, 800 feet S 30° E from house of John Killian on old Grandview Road, 4.0 feet north of 2-inch maple, 1.0 foot N 20° E of 2-inch oak, 22.7 feet S 60° W of 12-inch chestnut oak, and 8.8 feet N 25° W of 2-inch pine. A standard TVA tablet stamped "HR 10" and set in rock outcrop. Steel post with control marker sign set 1 foot south of tablet.

GEODETTIC POSITION: Lat. = 35°06'07.074"; Long. = 84°02'54.453" (T-3)  
 GRID POSITION (North Carolina): X = 490,661.2; Y = 530,411.5 (T-3)  
 Grid Azimuth to HR 11 (distance 694.6 feet): 193°54'00".  
 ELEVATION: 1538.5 feet (T-4)

**HR 11** (TVA, 1935; Cherokee County, North Carolina)

Located 1 mile northwest from Murphy via old Unaka Road, 0.15 mile northwest of junction of Unaka Road and Grandview Road, on a hillside about midway between the two roads, 10.8 feet south of 14-inch sweetgum, 7.8 feet east of 5-inch poplar, and 5.0 feet northwest of 2-inch hickory. A standard TVA tablet stamped "HR 11" and set in a precast concrete monument. Steel post with control marker sign set 1 foot north of monument.

GEODETTIC POSITION: Lat. = 35°06'13.820"; Long. = 84°02'52.859" (T-3)  
 GRID POSITION (North Carolina): X = 490,828.1; Y = 531,085.8 (T-3)  
 Grid Azimuth to HR 10 (distance 694.6 feet): 13°54'00".  
 ELEVATION: 1536.5 feet (T-4)

**HR 12** (TVA, 1935; Cherokee County, North Carolina)

Located on the left bank of Hiwassee River, at east end of bluff, 1500 feet below old Dickey Ranch, 1000 feet due west of small island, and 14.3 feet S 60° E of 4-inch bellwood. A standard TVA tablet stamped "HR 12" and set in a boulder. Steel post with control marker sign set 2.1 feet southwest of monument.

Reference Mark 1: 1.5 feet South to painted cross on rock.  
 GEODETTIC POSITION: Lat. = 35°05'56.410"; Long. = 84°03'55.008" (T-3)  
 GRID POSITION (North Carolina): X = 485,581.6; Y = 529,591.0 (T-3)  
 Grid Azimuth to HR 13 (distance 1047.0 feet): 230°31'40".  
 ELEVATION: 1532.9 feet (T-4)

**HR 13** (TVA, 1935; Cherokee County, North Carolina)

Located 2.25 miles northwest from Murphy, 100 feet from right of Unaka Road, on property of O. F. Hunsucker. Station is on crest of ridge, 50 feet above elevation of road, a point where highway makes a sharp turn to right and old stone piers of old logging railroad still remain across Hiwassee River, 15.4 feet N 35° E of 10-inch pine, 10.9 feet east of 5-inch pine, and 16.0 feet south of 24-inch twin black oak. A standard TVA tablet stamped "HR 13" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GEODETTIC POSITION: Lat. = 35°06'03.393"; Long. = 84°03'45.702" (T-3)  
 GRID POSITION (North Carolina): X = 486,389.8; Y = 530,256.6 (T-3)  
 Grid Azimuth to HR 12 (distance 1047.0 feet): 50°31'40".  
 Grid Azimuth to HR 18: 108°33'30".  
 ELEVATION: 1535.5 feet (T-4)

**HR 14** (TVA, 1935; Cherokee County, North Carolina)

Located on the left bank of Hiwassee River opposite the mouth of Hanging Dog Creek, at River Mile 92.9, on nose of ridge, 13.0 feet north of 6-inch chestnut, and 12.2 feet N 60° E of 6-inch birch. A standard TVA tablet stamped "HR 14" and set in a large boulder or ledge. Steel post with control marker sign set on 4-inch maple 7.3 feet west of tablet.

GEODETTIC POSITION: Lat. = 35°06'10.851"; Long. = 84°04'36.070" (T-3)  
 GRID POSITION (North Carolina): X = 482,249.0; Y = 531,223.2 (T-3)  
 Grid Azimuth to HR 15 (distance 1249.2 feet): 208°32'10".  
 Grid Azimuth to HR 18 (distance 666.2 feet): 145°38'10".  
 ELEVATION: 1538.9 feet (T-4)

**HR 15** (TVA, 1935; Cherokee County, North Carolina)

Located about 3 miles northwest of Murphy, 125 feet east of Unaka Road, on the property of W. J. Johnson. Station is 325 feet south of steel bridge (now abandoned) over Hanging Dog Creek at Dockery Mill (now abandoned), 60 feet higher than elevation of Unaka Road, which is between Murphy and Unaka, 11.0 feet N 70° E of 5-inch post oak, 6.5 feet north of 6-inch pine, and 8.8 feet S 30° E of 3-inch sourwood. A standard TVA tablet stamped "HR 15" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GEODETTIC POSITION: Lat. = 35°06'21.994"; Long. = 84°04'29.572" (T-3)  
 GRID POSITION (North Carolina): X = 482,845.8; Y = 532,320.6 (T-3)  
 Grid Azimuth to HR 14 (distance 1249.2 feet): 28°32'10".  
 Grid Azimuth to HR 18 (distance 1116.3 feet): 60°37'40".  
 ELEVATION: 1539.1 feet (T-4)

**HR 16** (TVA, 1935; Cherokee County, North Carolina)

Located 0.75 mile upstream from Dockery Mill (now abandoned), on left bank of Hanging Dog Creek, on mountain side, 35 feet above creek bank, 200 feet upstream from confluence of Bates Creek and Hanging Dog Creek, 9.7 feet S 70° E of 6-inch hickory, 16.6 feet S 20° E of 14-inch Spanish oak, and 10.25 feet N 50° E of 6-inch pine. A standard TVA tablet stamped "HR 16" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

GEODETTIC POSITION: Lat. = 35°06'43.687"; Long. = 84°04'03.149" (T-3)  
 GRID POSITION (North Carolina): X = 482,150.0; Y = 524,398.6 (T-3)  
 Grid Azimuth to HR 17 (distance 243.6 feet): 104°09'30".  
 ELEVATION: 1544.8 feet (T-4)

**HR 17** (TVA, 1935; Cherokee County, North Carolina)

Located on right bank Hanging Dog Creek, in old quarry, 200 feet upstream from west end new bridge on Joe Brown Highway, 20 feet west of center line of road going along right bank of creek, near south end of rock cut. A standard TVA tablet stamped "HR 17" and set in bedrock. Steel post with control marker sign set 12 feet southeast of tablet.

Reference Mark 1: 5.73 feet Northwest to paint mark on rock.  
 Reference Mark 2: 1.30 feet South to paint mark on rock.  
 GEODETTIC POSITION: Lat. = 35°06'44.157"; Long. = 84°04'06.025" (T-3)  
 GRID POSITION (North Carolina): X = 484,913.8; Y = 534,458.2 (T-3)  
 Grid Azimuth to HR 16 (distance 243.6 feet): 284°09'30".  
 ELEVATION: 1537.7 feet (T-4)

**HR 18** (TVA, 1935; Cherokee County, North Carolina)

Located on the right bank of Hiwassee River at River Mile 92.9, in a sage field between Hanging Dog Creek and Hunsucker Branch, 50 feet from wood edge, 200 feet northeast of point on left bank of Hunsucker Branch, 8.2 feet N 15° E of 2-inch pine, 16.4 feet N 25° W of 2-inch pine, and 7.8 feet southeast of 2-inch pine. A standard TVA tablet stamped "HR 18" and set in a precast concrete post. Steel post with control marker sign set 1 foot west of monument.

GEODETTIC POSITION: Lat. = 35°06'16.094"; Long. = 84°04'40.929" (T-3)  
 GRID POSITION (North Carolina): X = 481,873.0; Y = 531,773.1 (T-3)  
 Grid Azimuth to HR 14 (distance 666.2 feet): 325°38'10".  
 Grid Azimuth to HR 15 (distance 1116.3 feet): 240°37'40".  
 Grid Azimuth to HR 13: 288°33'30".  
 ELEVATION: 1535.4 feet (T-4)

**HR 19** (TVA, 1935; Cherokee County, North Carolina)

Located 4.5 miles northwest from Murphy, on road leading to Unaka, on the property of R. E. Carter. Station is about 150 feet west of junction of Grape Creek, Hanging Dog mail route road and Unaka road, about 200 feet east of home of Rollin Carter, midway between two roads at toe of slope, about 75 feet north of two mailboxes, 23.50 feet from 8-inch white oak tree, and 55.52 feet from mailbox post. A standard TVA tablet stamped "HR 19" and set in a precast concrete monument.

GEODETTIC POSITION: Lat. = 35°07'08.067"; Long. = 84°04'50.898" (T-3)  
 GRID POSITION (North Carolina): X = 481,314.6; Y = 537,062.6 (T-3)  
 ELEVATION: 1633.07 feet (T-3)

**HR 20** (TVA, 1935; Cherokee County, North Carolina)

Located on right bank Hiwassee River, 300 feet upstream from mouth of Nottely River, 15 feet above cleared line of reservoir, on point of hill, 12.90 feet N 37° E of 8-inch hickory, 20.18 feet N 61° W of 10-inch white oak, and 20.6 feet S 26° E of 18-inch white oak. A standard TVA tablet stamped "HR 20" and set in precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETTIC POSITION: Lat. = 35°05'34.224"; Long. = 84°04'35.878" (T-3)  
 GRID POSITION (North Carolina): X = 482,075.7; Y = 527,524.5 (T-3)  
 Grid Azimuth to HR 21 (distance 1091.4 feet): 324°32'40".  
 Grid Azimuth to HR 22 (distance 1291.4 feet): 11°59'10".  
 ELEVATION: 1545.4 feet (T-4 - Spur)

HR 21 (TVA, 1935; Cherokee County, North Carolina)

Located 850 feet east of confluence of Hiwassee and Nottely Rivers, 2600 feet downstream from old Nottely River power house (Southern States Power Company), on nose of ridge between Hiwassee and Nottely Rivers, 60 feet higher than floor of valley, 26.0 feet N 65° W of 20-inch oak, 13.7 feet N 30° W of 4-inch pine, and 21.4 feet S 45° W of 20-inch oak. A standard TVA tablet stamped "HR 21" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

GEODETIC POSITION: Lat. = 35°05'25.761"; Long. = 84°04'27.722" (T-3)  
 GRID POSITION (North Carolina): X = 482,708.8; Y = 526,635.5 (T-3)  
 Grid Azimuth to HR 20 (distance 1091.4 feet): 144°32'40".  
 Grid Azimuth to HR 22 (distance 975.8 feet): 67°27'00".  
 ELEVATION: 1528.6 feet (T-4)

HR 22 (TVA, 1935; Cherokee County, North Carolina)

Located at mouth of Nottely River, on the left bank of Hiwassee River and on the left bank of the Nottely River, 9.7 feet south of 6-inch dogwood, 16.5 feet N 70° E of 5-inch dogwood, and 9.4 feet east of 36-inch beech. A standard TVA tablet stamped "HR 22" and set in top of a precast concrete monument. Steel post with control marker sign set approximately 1 foot south of monument.

GEODETIC POSITION: Lat. = 35°05'21.608"; Long. = 84°04'38.323" (T-3)  
 GRID POSITION (North Carolina): X = 481,807.6; Y = 526,261.2 (T-3)  
 Grid Azimuth to HR 21 (distance 975.8 feet): 287°27'00".  
 Grid Azimuth to HR 20 (distance 1291.4 feet): 191°59'10".  
 ELEVATION: 1536.6 feet (T-4)

HR 23 (TVA, 1935; Cherokee County, North Carolina)

Located 3.5 miles southwest from Murphy, 1.0 mile upstream from old site of Southern States Power Company, Nottely River Dam, 1.5 miles above mouth of Nottely River, 400 feet east of right bank of Nottely River, 1000 feet upstream from southwest corner of small field, in woods, 5 feet above 1528-foot contour, 7.6 feet N 40° E of 1-inch hickory, 7.3 feet N 49° W of 6-inch hickory, and 8.0 feet S 25° E of 2-inch pine. A standard TVA tablet stamped "HR 23" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GEODETIC POSITION: Lat. = 35°04'37.066"; Long. = 84°04'21.588" (T-3)  
 GRID POSITION (North Carolina): X = 482,966.4; Y = 521,693.2 (T-3)  
 Grid Azimuth to HR 24 (distance 524.5 feet): 70°56'40".  
 ELEVATION: 1531.8 feet (T-4)

HR 24 (TVA, 1935; Cherokee County, North Carolina)

Located on the left bank of Nottely River, 1-1/2 miles by river above its mouth, on long sloping rock, approximately 10 feet wide extending into water, 700 feet upstream from a small hollow which is the first hollow on the 1528-foot contour, on the left bank above the old Nottely River Power Plant (Southern States Power Company), 3000 feet by airline southwest of powerhouse site, 13.65 feet S 45° E of 3-inch locust, and 12.6 feet S 15° E of 2-inch white pine. A standard TVA tablet stamped "HR 24" and set in a rock bluff. Steel post with control marker sign set 9.9 feet southeast of monument.

GEODETIC POSITION: Lat. = 35°04'35.124"; Long. = 84°04'27.439" (T-3)  
 GRID POSITION (North Carolina): X = 482,470.7; Y = 521,522.0 (T-3)  
 Grid Azimuth to HR 23 (distance 524.5 feet): 250°56'40".  
 ELEVATION: 1531.2 feet (T-4)

HR 25 (TVA, 1935; Cherokee County, North Carolina)

Located on the left bank of Nottely River opposite the mouth of Cane Creek, 800 feet east of Hall's bridge, 5.75 feet west of 10-inch pine, 12.9 feet S 30° W of 10-inch crooked pine, and 14.65 feet northeast of 16-inch pine. A standard TVA tablet stamped "HR 25" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°03'48.338"; Long. = 84°04'30.334" (T-3)  
 GRID POSITION (North Carolina): X = 481,988.8; Y = 516,810.8 (T-3)  
 Grid Azimuth to HR 27 (distance 1123.8 feet): 350°51'40".  
 Grid Azimuth to HR 26 (distance 1107.4 feet): 319°22'20".  
 ELEVATION: 1538.3 feet (T-4)

HR 26 (TVA, 1935; Cherokee County, North Carolina)

Located on the right bank of Nottely River, 500 feet below the mouth of Cane Creek, at an old home site, 1900 feet due east of site of Hall's bridge, 6.0 feet southeast of 10-inch white oak, 10.75 feet south of 4-inch pine, and 17.6 feet S 45° W of 10-inch white oak. A standard TVA tablet stamped "HR 26" and set in a concrete monument. Steel post with control marker sign set 1 foot east of monument.

GEODETIC POSITION: Lat. = 35°03'40.399"; Long. = 84°04'21.153" (T-3)  
 GRID POSITION (North Carolina): X = 482,709.9; Y = 515,970.3 (T-3)  
 Grid Azimuth to HR 27 (distance 605.6 feet): 63°37'20".  
 Grid Azimuth to HR 25 (distance 1107.4 feet): 139°22'20".  
 ELEVATION: 1534.4 feet (T-4)

HR 27 (TVA, 1935; Cherokee County, North Carolina)

Located 1000 feet northwest of Louisville and Nashville Railroad, 1400 feet west of West Hollow, on the property of T. P. Roger, near site of Hall's steel bridge (now destroyed) over Nottely River, on crest of wooded ridge, 18.5 feet S 35° W of 6-inch pine, 6.4 feet N 40° E of 8-inch pine, and 15.55 feet S 25° E of 18-inch pine. A standard TVA tablet stamped "HR 27" and set in a precast concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°03'37.466"; Long. = 84°04'27.507" (T-3)  
 GRID POSITION (North Carolina): X = 482,167.3; Y = 515,701.2 (T-3)  
 Grid Azimuth to HR 26 (distance 605.6 feet): 243°37'20".  
 Grid Azimuth to HR 25 (distance 1123.8 feet): 170°51'40".  
 ELEVATION: 1544.1 feet (T-4)

HR 28 (TVA, 1935; Cherokee County, North Carolina)

Located 3.5 miles southwest of Murphy, via U. S. Highway 64, 1000 feet northeast of residence of Stanley Clayton, 200 feet west of Cane Creek, in field, 52 feet east of U. S. Highway 64, 129.0 feet S 45° W of center line of top of 18-inch GGI pipe under highway, 34.8 feet S 35° W of 1-inch dogwood in clump, and 19.7 feet N 25° E of 5-inch pine. A standard TVA tablet stamped "HR 28" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°03'07.748"; Long. = 84°04'18.725" (T-3)  
 GRID POSITION (North Carolina): X = 482,742.9; Y = 512,663.6 (T-3)  
 Grid Azimuth to HR 29 (distance 375.7 feet): 293°59'00".  
 GRID POSITION (Tennessee): X = 2,577,110.9; Y = 245,999.3 (T-3)  
 ELEVATION: 1530.3 feet (T-4)

HR 29 (TVA, 1935; Cherokee County, North Carolina)

Located 3.5 miles southwest of Murphy, on property of James Crisp, 1000 feet northeast of residence of Stanley Clayton, 35 feet east of Cane Creek, 110 feet north of east-west fence, in field, 11.0 feet N 75° E of 6-inch black oak, 8.9 feet west of 6-inch poplar, and 5.5 feet N 45° W of 4-inch poplar. A standard TVA tablet stamped "HR 29" and set in a precast concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GEODETIC POSITION: Lat. = 35°03'06.413"; Long. = 84°04'14.508" (T-3)  
 GRID POSITION (North Carolina): X = 483,086.1; Y = 512,510.9 (T-3)  
 Grid Azimuth to HR 28 (distance 375.7 feet): 113°59'00".  
 GRID POSITION (Tennessee): X = 2,577,464.1; Y = 245,871.2 (T-3)  
 ELEVATION: 1532.2 feet (T-4)

HR 30 (TVA, 1935; Cherokee County, North Carolina)

Located 1 mile upstream from site of Hall's bridge (now destroyed), 500 feet upstream from Hall's bridge road, on left bank of Hiwassee Reservoir (Nottely River Arm), about 1/4 mile downstream from talc mine, 6.6 feet S 50° W of 6-inch pine, 7.15 feet N 45° E of 4-inch pine, and 7.85 feet south of 2-inch pine. A standard TVA tablet stamped "HR 30" and set in concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°03'03.595; Long. = 84°05'17.148" (T-3)  
 GRID POSITION (North Carolina): X = 477,870.8; Y = 512,492.8 (T-3)  
 Grid Azimuth to HR 31 (distance 991.3 feet): 309°43'10".  
 ELEVATION: 1543.8 feet (T-4)

HR 31 (TVA, 1935; Cherokee County, North Carolina)

Located about 1/4 mile east of talc mine, 125 feet north of Louisville and Nashville Railroad, 25 feet south of south end of fill across small valley, 20 feet east of talc mine access road, 1.0 foot south of 5-inch pine, 8.7 feet N 45° W of 3-inch pine, and 8.6 feet west of 4-inch pine. A standard TVA tablet stamped "HR 31" and set in a precast concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GEODETIC POSITION: Lat. = 35°02'57.723"; Long. = 84°05'07.598" (T-3)  
 GRID POSITION (North Carolina): X = 478,633.3; Y = 511,859.3 (T-3)  
 Grid Azimuth to HR 30 (distance 991.3 feet): 129°43'10".  
 Grid Azimuth to PANTHER KNOB: 147°57'30".  
 ELEVATION: 1547.2 feet (T-4)

HR 32 (TVA, 1935; Cherokee County, North Carolina)

Located on the right bank of Nottely River, 0.7 mile upstream from Kimsey trestle on Louisville and Nashville Railroad, 8.6 feet south of 8-inch white pine, 1.3 feet S 45° E of paint spot on rock, and 8.2 feet northwest of 4-inch maple. A standard TVA tablet stamped "HR 32" and set in a ledge. Steel post with control marker sign set 1 foot south of tablet.

GEODETIC POSITION: Lat. = 35°02'44.400"; Long. = 84°06'20.279" (T-3)  
 GRID POSITION (North Carolina): X = 472,589.6; Y = 510,844.3 (T-3)  
 Grid Azimuth to HR 33 (distance 442.5 feet): 221°18'40".  
 ELEVATION: 1533.1 feet (T-4)

HR 33 (TVA, 1935; Cherokee County, North Carolina)

Located 5.5 miles southwest of Murphy, on left bank of Hiwassee River, 1/2 mile downstream from Crowder Bluff, 700 feet southeast of residence occupied by A. M. Crowder, 9.0 feet southwest of toe of slope, 16.3 feet S 20° E of 6-inch post oak, 9.0 feet north of 4-inch pine, and 5.0 feet west of 4-inch pine. A standard TVA tablet stamped "HR 33" and set in a precast concrete monument. Steel post with control marker sign set 1 foot north of monument.

GEODETIC POSITION: Lat. = 35°02'47.833"; Long. = 84°06'16.976" (T-3)  
 GRID POSITION (North Carolina): X = 472,821.7; Y = 511,156.7 (T-3)  
 Grid Azimuth to HR 32 (distance 442.5 feet): 41°18'40".  
 ELEVATION: 1540.8 feet (T-4)

HR 34 (TVA, 1935; Cherokee County, North Carolina)

Located 6000 feet southwest of Kimsey, 1600 feet northeast Milepost No. 410, 25.4 feet from telephone pole 3071, and 20.0 feet north of center line of railroad. A standard TVA tablet stamped "HR 34" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot southeast of monument.

GEODETIC POSITION: Lat. = 35°01'53.248"; Long. = 84°06'34.760" (T-3)  
 GRID POSITION (North Carolina): X = 471,061.2; Y = 505,722.0 (T-3)

HR 35 (TVA, 1935; Cherokee County, North Carolina)

Located on the right bank of Hiwassee River at River Mile 90.2, directly opposite point on right bank of Beech Creek at its mouth, 9.1 feet south of 6-inch pine, 14.4 feet west of 8-inch pine, and 14.6 feet north of 7-inch pine. Station is at narrowest point in river in the vicinity. A standard TVA tablet stamped "HR 35" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

GEODETIC POSITION: Lat. = 35°05'20.382"; Long. = 84°05'36.964" (T-3)  
 GRID POSITION (North Carolina): X = 476,934.9; Y = 526,387.0 (T-3)  
 Grid Azimuth to HR 36 (distance 971.0 feet): 81°42'20".  
 Grid Azimuth to HR 37 (distance 2152.7 feet): 119°34'20".  
 ELEVATION: 1535.3 feet (T-4)

HR 36 (TVA, 1935; Cherokee County, North Carolina)

Located at mouth of Beech Creek, on left bank of Hiwassee River and on right bank of Beech Creek, on nose of ridge, 8.5 feet west of 4-inch maple, 7.1 feet N 45° W of 3-inch red oak, 19.3 feet east of 8-inch white oak, and 11.2 feet S 45° E of 6-inch birch. A standard TVA tablet stamped "HR 36" and set in a precast concrete monument. Steel post with control marker sign set 1 foot south of monument.

GEODETIC POSITION: Lat. = 35°05'18.511"; Long. = 84°05'48.426" (T-3)  
 GRID POSITION (North Carolina): X = 475,973.9; Y = 526,246.9 (T-3)  
 Grid Azimuth to HR 37 (distance 1508.8 feet): 142°50'30".  
 Grid Azimuth to HR 35 (distance 971.0 feet): 261°42'20".  
 ELEVATION: 1536.1 feet (T-4)

HR 37 (TVA, 1935; Cherokee County, North Carolina)

Located about 3 miles northeast of Birch, 860 feet northwest of home of Wiley Ramsey, on cleared hillside, at mouth of Beech Creek, 12.6 feet S 60° W of 6-inch pine, 5.7 feet N 60° E of 6-inch pine, and 12.0 feet N 20° W of 3-inch pine. A standard TVA tablet stamped "HR 37" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°05'29.927"; Long. = 84°06'00.122" (T-3)  
 GRID POSITION (North Carolina): X = 475,062.5; Y = 527,449.4 (T-3)  
 Grid Azimuth to HR 35 (distance 2152.7 feet): 299°34'20".  
 Grid Azimuth to HR 36 (distance 1508.8 feet): 322°50'30".  
 ELEVATION: 1542.6 feet (T-4)

**HR 38 (TVA, 1935; Cherokee County, North Carolina)**

Located on the right bank of Beech Creek, 3000 feet northeast of old road intersection, Beech Creek Road and Hall's Knob Road, 8.0 feet southeast of 10-inch pine, 15.1 feet south of 9-inch pine, and 11.5 feet southwest of 6-inch pine. A standard TVA tablet stamped "HR 38" and set in top of a precast concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GEODETIC POSITION: Lat. = 35°06'36.451"; Long. = 84°06'42.259" (T-3)  
 GRID POSITION (North Carolina): X = 471,287.6; Y = 522,230.6 (T-3)  
 Grid Azimuth to HR 39 (distance 517.3 feet): 128°16'40".  
 ELEVATION: 1532.4 feet (T-4)

**HR 39 (TVA, 1935; Cherokee County, North Carolina)**

Located 1 mile north of Birch, on left bank of Beech Creek, 400 feet west of Beech Creek, on hillside, 35 feet higher than road, 1200 feet up Beech Creek valley from Barton home, 6 feet south of wire fence which borders south end of hillside, 500 feet north of old barn, 4.1 feet N 50° W of 6-inch red oak, 5.2 feet N 10° E of 10-inch pine, and 8.5 feet south of 3-inch post oak. A standard TVA tablet stamped "HR 39" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°04'39.411"; Long. = 84°06'47.338" (T-3)  
 GRID POSITION (North Carolina): X = 470,881.5; Y = 522,551.1 (T-3)  
 Grid Azimuth to HR 38 (distance 517.3 feet): 308°16'40".  
 ELEVATION: 1546.7 feet (T-4)

**HR 40 (TVA, 1935; Cherokee County, North Carolina)**

Located 4000 feet south of Birch, 2000 feet north of house of W. E. Payne which is near top of ridge, on Hall's Knob, 12 feet east of dirt road from Birch, to house of W. E. Payne. A standard TVA tablet stamped "HR 40" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot east of monument.

Reference Mark 1: 12.7 feet East to painted cross on 6-inch post oak.  
 Reference Mark 2: 7.7 feet S 75° W to painted cross on 4-inch pine.  
 Reference Mark 3: 16.7 feet S 30° W to painted cross on 6-inch white oak.  
 GEODETIC POSITION: Lat. = 35°03'38.804"; Long. = 84°06'59.634" (T-3)  
 GRID POSITION (North Carolina): X = 469,545.3; Y = 516,485.1 (T-3)  
 ELEVATION: 1878.5 feet (T-4)

**HR 42 (TVA, 1935; Cherokee County, North Carolina)**

Located 0.9 mile from Junction of U. S. Highway 64 and State Highway 294, 10 miles southwest from Murphy, at Letitia, 19 feet from center line of southwest side of State Highway 294, 100 feet northwest of the Letitia Post Office, on crest of hill. A standard TVA tablet stamped "HR 42" and set in a precast concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°02'38.867"; Long. = 84°08'54.784" (T-3)  
 GRID POSITION (North Carolina): X = 459,672.1; Y = 510,928.8 (T-3)  
 ELEVATION: 1820.331 feet or 554.838 meters (T-2)

**HR 43 (TVA, 1935; Cherokee County, North Carolina)**

Located 1000 feet downstream from old Shallow Ford road and bridge site, on left bank Hiwassee River, on left bank of Hiwassee Lake on point of ridge, on east side of hollow to southwest, 10 feet above 1528-foot contour, 7.65 feet N 50° E of 6-inch twin hickory, 12.35 feet N 80° W of 5-inch twin sourwood, and 13.85 feet S 45° E of 5-inch hickory. A standard TVA tablet stamped "HR 43" and set in precast concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°05'57.365"; Long. = 84°06'46.948" (T-3)  
 GRID POSITION (North Carolina): X = 471,319.6; Y = 530,419.5 (T-3)  
 Grid Azimuth to HR 44 (distance 1309.6 feet): 209°30'30".  
 ELEVATION: 1536.2 feet (T-4)

**HR 44 (TVA, 1935; Cherokee County, North Carolina)**

Located on right bank of Hiwassee River, 1000 feet below old Shallow Ford bridge site, 15 feet above reservoir cleared line on point of hill, at draw to northeast (Timpson Hollow), on west side of hollow, 28.80 feet N 34° E of 14-inch white oak, 17.18 feet N 80° W of 16-inch hickory, and 12.8 feet S 35° W of 6-inch oak. A standard TVA tablet stamped "HR 44" and set in precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GEODETIC POSITION: Lat. = 35°06'08.953"; Long. = 84°06'39.901" (T-3)  
 GRID POSITION (North Carolina): X = 471,964.6; Y = 531,559.2 (T-3)  
 Grid Azimuth to HR 43 (distance 1309.6 feet): 29°30'30".  
 Grid Azimuth to HR 35: 316°08'30".  
 ELEVATION: 1540.4 feet (T-4)

**HR 45 (TVA, 1935; Cherokee County, North Carolina)**

Located opposite mouth of Grape Creek, on left bank of Hiwassee Lake, 100 feet west of mouth of draw, 6 feet above 1528-foot contour, 18.25 feet N 50° W of 10-inch poplar, and 16.00 feet east of 8-inch pine, and 15.95 feet northwest of 14-inch twin poplar. A standard TVA tablet stamped "HR 45" and set in precast monument. Steel post with control marker sign set 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°06'42.086"; Long. = 84°07'31.684" (T-3)  
 GRID POSITION (North Carolina): X = 467,840.9; Y = 535,126.0 (T-3)  
 Grid Azimuth to HR 46 (distance 1126.2 feet): 242°25'30".  
 ELEVATION: 1535.6 feet (T-4)

**HR 46 (TVA, 1935; Cherokee County, North Carolina)**

Located on right bank of Hiwassee Reservoir, 900 feet upstream from confluence of center line of Grape Creek, 40 feet above old road, at point where old road rounds nose of hill and heads up Grape Creek Valley, 0.75 mile down valley from home of C. B. Hedrick, 4.55 feet S 80° W of 6-inch twin oak, 12.20 feet N 44° E of 6-inch white oak, and 21.40 feet S 5° W of 8-inch white oak. A standard TVA tablet stamped "HR 46" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GEODETIC POSITION: Lat. = 35°06'47.746"; Long. = 84°07'20.006" (T-3)  
 GRID POSITION (North Carolina): X = 468,839.2; Y = 535,647.3 (T-3)  
 Grid Azimuth to HR 47 (distance 1074.7 feet): 160°17'20".  
 Grid Azimuth to HR 45 (distance 1126.2 feet): 62°25'30".  
 ELEVATION: 1539.4 feet (T-4)

**HR 47 (TVA, 1935; Cherokee County, North Carolina)**

Located 5 miles northwest of Murphy, 0.6 mile southeast of Joe Brown Highway, on right bank of Hiwassee Reservoir (Grape Creek Arm), about 1/2 mile below Joe Brown Highway Bridge over Grape Creek on the nose of a flat ridge,

about 10 feet above 1528-foot contour, 17.9 feet S 48° E of 10-inch pine, 3.75 feet west of 3-inch pine, and 12.45 feet east of 5-inch black oak. A standard TVA tablet stamped "HR 47" and set in concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°06'57.556"; Long. = 84°07'24.992" (T-3)  
 GRID POSITION (North Carolina): X = 468,476.7; Y = 536,659.1 (T-3)  
 Grid Azimuth to HR 46 (distance 1074.7 feet): 340°17'20".  
 ELEVATION: 1540.7 feet (T-4)

**HR 48 (TVA, 1935; Cherokee County, North Carolina)**

Located 6.5 miles northwest from Murphy, 800 feet up valley from highway bridge over Grape Creek, 9.0 feet east of 6-inch pine, 15.10 feet S 40° W of 3-inch hickory, and 15.9 feet N 35° W of 4-inch pine. A standard TVA tablet stamped "HR 48" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°07'04.324"; Long. = 84°06'40.736" (T-3)  
 GRID POSITION (North Carolina): X = 472,183.4; Y = 537,152.9 (T-3)  
 Grid Azimuth to HR 49 (distance 1335.3 feet): 182°14'30".  
 ELEVATION: 1539.8 feet (T-4)

**HR 49 (TVA, 1935; Cherokee County, North Carolina)**

Located about 6 miles northwest of Murphy, at confluence of Song Branch and Grape Creek, on left bank of Song Branch, on right bank of Grape Creek, in pine woods, 12.3 feet S 80° E of 12-inch pine, 18.6 feet N 45° E of 14-inch white oak, and 7.1 feet S 60° W of 12-inch pine. A standard TVA tablet stamped "HR 49" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

GEODETIC POSITION: Lat. = 35°07'17.532"; Long. = 84°06'40.935" (T-3)  
 GRID POSITION (North Carolina): X = 472,235.6; Y = 538,487.2 (T-3)  
 Grid Azimuth to HR 48 (distance 1335.3 feet): 2°14'30".  
 ELEVATION: 1532.2 feet (T-4)

**HR 50 (TVA, 1935; Cherokee County, North Carolina)**

Located on the left bank of Hiwassee River at River Mile 86.8 and opposite Whitner Branch, on John Green Bend, on the nose of the ridge, 5.6 feet northwest of 3-inch pine, 16.1 feet west of 6-inch maple, 13.4 feet southwest of 6-inch locust, and 16.7 feet east of 10-inch white oak. A standard TVA tablet stamped "HR 50" and set in a precast concrete monument. Steel post with control marker sign set 1 foot south of monument.

GEODETIC POSITION: Lat. = 35°07'29.860"; Long. = 84°08'04.009" (T-3)  
 GRID POSITION (North Carolina): X = 465,408.8; Y = 540,087.7 (T-3)  
 Grid Azimuth to HR 51 (distance 1097.8 feet): 187°39'20".  
 ELEVATION: 1533.9 feet (T-4)

**HR 51 (TVA, 1935; Cherokee County, North Carolina)**

Located 1/2 mile southeast of New Hope Church, on right bank of Hiwassee River, directly across from point of John Green Bend, 100 feet west of point of ridge, 115 feet higher than old road along river bank, 9.05 feet N 80° E of 4-inch pine, 18.60 feet S 72° E of 5-inch pine, 16.60 feet N 35° W of 8-inch leaning oak on water's edge, and 12.55 feet S 13° W of 10-inch oak. A standard TVA tablet stamped "HR 51" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

GEODETIC POSITION: Lat. = 35°07'40.682"; Long. = 84°08'02.928" (T-3)  
 GRID POSITION (North Carolina): X = 465,555.0; Y = 541,175.7 (T-3)  
 Grid Azimuth to HR 50 (distance 1097.8 feet): 7°39'20".  
 ELEVATION: 1538.7 feet (T-4)

**HR 52 (TVA, 1935; Cherokee County, North Carolina)**

Located on right bank of Hiwassee River, opposite mouth of Persimmon Creek, on top of a rock bluff, 0.8 mile downstream from Jake Lovingson's house, 15.4 feet N 40° W of 14-inch pine, 21.2 feet N 70° E of 12-inch pine, and 10.3 feet S 72° W of 12-inch pine. A standard TVA tablet stamped "HR 52" and set in a precast concrete monument. Steel post with control marker sign set 1 foot north of monument.

GEODETIC POSITION: Lat. = 35°06'36.432"; Long. = 84°08'23.685" (T-3)  
 GRID POSITION (North Carolina): X = 463,497.2; Y = 534,778.4 (T-3)  
 Grid Azimuth to HR 54 (distance 956.9 feet): 22°03'20".  
 Grid Azimuth to HR 53 (distance 1504.9 feet): 350°06'00".  
 ELEVATION: 1531.0 feet (T-4)

**HR 53 (TVA, 1935; Cherokee County, North Carolina)**

Located on the left bank of Hiwassee River at the mouth of and on the right bank of Persimmon Creek, 100 feet northeast of the nose of ridge, 18.3 feet southwest of 12-inch black oak, 23.1 feet northwest of 24-inch red oak, and 12.1 feet northeast of 12-inch black oak. A standard TVA tablet stamped "HR 53" and set in top of a precast concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GEODETIC POSITION: Lat. = 35°06'37.9; Long. = 84°08'23.685" (T-3)  
 GRID POSITION (North Carolina): X = 463,735.9; Y = 533,295.8 (T-3)  
 Grid Azimuth to HR 52 (distance 1504.9 feet): 170°06'00".  
 Grid Azimuth to HR 54 (distance 858.4 feet): 133°56'20".  
 ELEVATION: 1533.3 feet (T-4)

**HR 54 (TVA, 1935; Cherokee County, North Carolina)**

Located on the left bank of Hiwassee River at the mouth of Persimmon Creek and on the left bank of the creek, on the nose of the ridge, 9.3 feet S 35° W of 20-inch pine, 12.7 feet N 5° W of 6-inch black oak, and 13.1 feet N 75° E of 6-inch post oak. A standard TVA tablet stamped "HR 54" and set in a precast concrete post. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°06'37.8; Long. = 84°08'23.685" (T-3)  
 GRID POSITION (North Carolina): X = 463,137.8; Y = 533,891.5 (T-3)  
 Grid Azimuth to HR 52 (distance 956.9 feet): 202°03'30".  
 Grid Azimuth to HR 53 (distance 858.4 feet): 313°56'20".  
 ELEVATION: 1531.6 feet (T-4)

**HR 55 (TVA, 1935; Cherokee County, North Carolina)**

Located on the left bank of Persimmon Creek, 1.0 mile above its mouth, 1500 feet downstream from site of old concrete and steel bridge over Persimmon Creek at old mill and damsite, in center of a small sage field, 13.6 feet N 5° E of 4-inch hickory, 25.3 feet S 60° E of 12-inch pine, and 12.4 feet N 80° W of 6-inch pine. A standard TVA tablet stamped "HR 55" and set in a precast concrete monument. Steel post with control marker sign set 1 foot west of monument.

GEODETIC POSITION: Lat. = 35°06'33.7; Long. = 84°08'23.685" (T-3)  
 GRID POSITION (North Carolina): X = 460,953.7; Y = 530,123.1 (T-3)  
 Grid Azimuth to HR 56 (distance 997.9 feet): 318°59'30".  
 ELEVATION: 1532.9 feet (T-4)



**HR 56** (TVA, 1935; Cherokee County, North Carolina)

Located about 4.3 miles (airline) west of Murphy, on right bank of Persimmon Creek, 1000 feet downstream from site of old concrete bridge, on point of ridge, 400 feet from old house site, 10.3 feet N 60° W of 6-inch pine, 18.1 feet S 10° W of 10-inch pine, and 18.3 feet S 60° E of 12-inch forked red oak. A standard TVA tablet stamped "HR 56" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.  
 GRID POSITION (North Carolina): X = 461,608.5; Y = 529,370.1 (T-3)  
 Grid Azimuth to HR 55 (distance 997.9 feet): 138°59'30".  
 ELEVATION: 1537.2 feet (T-4)

**HR 57** (TVA, 1935; Cherokee County, North Carolina)

Located 2 miles upstream from mouth of Persimmon Creek, on the right bank, at sharp bend, on point of ridge 35 feet above 1528-foot contour, 4.8 feet S 35° E of 2-inch pine, 6.6 feet N 65° W of 8-inch pine, and 10.8 feet S 45° W of 10-inch pine. A standard TVA tablet stamped "HR 57" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument.  
 GEODETIC POSITION: Lat. = 35°05'00.920"; Long. = 84°09'18.864" (T-3)  
 GRID POSITION (North Carolina): X = 458,418.2; Y = 525,373.6 (T-3)  
 Grid Azimuth to HR 58 (distance 825.8 feet): 134°45'50".  
 ELEVATION: 1528.370 feet or 465.848 meters (T-2)

**HR 58** (TVA, 1935; Cherokee County, North Carolina)

Located about 6 miles northwest of Ranger, about 2 miles on left bank of Persimmon Creek, northeast of Friendship (Suit Post Office), where creek forms big left bend from house of Able Johnson, in old cornfield, 1000 feet north of house of Able Johnson, 14.8 feet N 45° E of 5-inch pine, 21.8 feet north of 4-inch pine, and 7.0 feet S 55° W of 2-inch sassafras. A standard TVA tablet stamped "HR 58" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot northwest of monument.  
 GEODETIC POSITION: Lat. = 35°05'06.364"; Long. = 84°09'26.273" (T-3)  
 GRID POSITION (North Carolina): X = 457,831.9; Y = 525,955.1 (T-3)  
 Grid Azimuth to HR 57 (distance 825.8 feet): 314°45'50".  
 ELEVATION: 1535.5 feet (T-4)

**HR 59** (TVA, 1935; Cherokee County, North Carolina)

Located about 5 miles northwest of Ranger, on right bank of Persimmon Creek, 1.1 miles north of State Highway 294, on nose of hill opposite mouth of Hibbert Branch, 12.3 feet N 30° E of 6-inch pine, and 7.5 feet S 60° E of 5-inch pine. A standard TVA tablet stamped "HR 59" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot southeast of monument.  
 Reference Mark 1: 2.8 feet N 75° E to cross on rock.  
 GEODETIC POSITION: Lat. = 35°04'23.828"; Long. = 84°09'59.973" (T-3)  
 GRID POSITION (North Carolina): X = 454,811.5; Y = 521,806.5 (T-3)  
 Grid Azimuth to HR 60 (distance 801.2 feet): 157°43'20".  
 ELEVATION: 1545.1 feet (T-4)

**HR 60** (TVA, 1935; Cherokee County, North Carolina)

Located 2 miles northwest of Letitia, on nose of flat ridge just north of a long narrow inlet to Hiwassee Reservoir, on the left bank of Persimmon Creek and left bank of Hibbert Branch, 5.9 feet S 80° W of 12-inch pine, 15.9 feet S 70° E of 6-inch pine, and 14.22 feet S 30° W of 10-inch pine. A standard TVA tablet stamped "HR 60" and set in concrete monument. Steel post with control marker sign set 1 foot northwest of monument.  
 GEODETIC POSITION: Lat. = 35°04'30.996"; Long. = 84°10'04.086" (T-3)  
 GRID POSITION (North Carolina): X = 454,507.8; Y = 522,547.9 (T-3)  
 Grid Azimuth to HR 59 (distance 801.2 feet): 337°43'20".  
 ELEVATION: 1546.7 feet (T-4)

**HR 61** (TVA, 1935; Cherokee County, North Carolina)

Located 1-1/2 miles northwest of Letitia, 0.8 mile north of State Highway 294, on right bank of Hiwassee Reservoir (Persimmon Creek Arm), opposite high ridge, 500 feet west of Persimmon Dam, 8.8 feet south of 5-inch dogwood, 12.2 feet north of 8-inch white oak, and 8.1 feet east of 5-inch white oak. A standard TVA tablet stamped "HR 61" and set in concrete monument. Steel post with control marker sign set 1 foot north of monument.  
 GEODETIC POSITION: Lat. = 35°04'08.477"; Long. = 84°10'04.146" (T-3)  
 GRID POSITION (North Carolina): X = 454,394.4; Y = 520,274.8 (T-3)  
 Grid Azimuth to HR 62 (distance 318.4 feet): 348°24'20".  
 ELEVATION: 1548.3 feet (T-4)

**HR 62** (TVA, 1935; Cherokee County, North Carolina)

Located about 5 miles northwest of Ranger, on left bank of Persimmon Creek, 0.7 mile downstream from State Highway 294 bridge over Persimmon Creek, 300 feet west of Persimmon Dam, 1 foot west of fence that runs up nose of hill, 300 feet southeast of Stiles' place, 26.1 feet S 55° E of 8-inch hickory, 10.7 feet N 25° E of 7-inch pine, and 17.9 feet S 70° W of 24-inch white oak. A standard TVA tablet stamped "HR 62" and set in a precast concrete monument. Steel post with control marker sign set 1 foot south of monument.  
 GEODETIC POSITION: Lat. = 35°04'05.428"; Long. = 84°10'03.181" (T-3)  
 GRID POSITION (North Carolina): X = 454,448.4; Y = 519,962.8 (T-3)  
 Grid Azimuth to HR 61 (distance 318.4 feet): 168°24'20".  
 ELEVATION: 1549.3 feet (T-4)

**HR 63** (TVA, 1935; Cherokee County, North Carolina)

Located 0.25 mile upstream from State Highway 294 bridge across Persimmon Creek, 6 feet south of Persimmon dirt road, 200 feet north of Persimmon Creek, N 45° W of relocated State Highway 294 between abandoned dirt road and present highway, 11.4 feet S 45° W of 6-inch pine tree, 41.0 feet S 20° E of power pole, and 3.4 feet N 25° E of 2-inch dogwood. A standard TVA tablet stamped "HR 63" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.  
 GEODETIC POSITION: Lat. = 35°03'20.278"; Long. = 84°10'19.725" (T-3)  
 GRID POSITION (North Carolina): X = 452,837.5; Y = 515,476.4 (T-3)  
 Grid Azimuth to HR 64 (distance 286.2 feet): 331°06'40".  
 ELEVATION: 1553.4 feet (T-4)

**HR 64** (TVA, 1935; Cherokee County, North Carolina)

Located 0.25 mile upstream from State Highway 294 bridge over Persimmon Creek, 300 feet east of the Obey Carswell residence, 75 feet south of Persimmon Creek, in a pasture on side of a hill, approximately 125 feet S 30° E from normal pool of Persimmon Creek Lake (Lake Cherokee), 10.2 feet east of 5-inch pine, 16.3 feet S 45° W of 5-inch pine, and 27.7 feet N 65° E of 10-inch pine. A

standard TVA tablet stamped "HR 64" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot southeast of monument.

GEODETIC POSITION: Lat. = 35°03'17.874"; Long. = 84°10'17.907" (T-3)  
 GRID POSITION (North Carolina): X = 452,975.8; Y = 515,225.8 (T-3)  
 Grid Azimuth to HR 63 (distance 286.2 feet): 151°06'40".  
 ELEVATION: 1554.0 feet (T-4)

**HR 65** (TVA, 1935; Cherokee County, North Carolina)

Located on left bank Hiwassee River, approximately 0.9 mile downstream from mouth of Persimmon Creek, 5.1 feet S 60° E of 3-inch hickory, 2.5 feet S 45° W of 2-inch poplar, and 3.1 feet N 45° E of 3-inch poplar. A standard TVA tablet stamped "HR 65" and set in concrete monument. Steel post with control marker sign set 1 foot south of monument.  
 GRID POSITION (North Carolina): X = 460,183.9; Y = 532,733.9 (T-3)  
 Grid Azimuth to HR 66 (distance 1007.6 feet): 180°38'10".  
 ELEVATION: 1536.9 feet (T-4)

**HR 66** (TVA, 1935; Cherokee County, North Carolina)

Located about 1.2 miles downstream from mouth of Persimmon Creek, on right bank of Hiwassee River, 1.65 miles downstream from house of Jake Lovingood, 500 feet northeast of upper end of cleared field in bottom, on top of a rock bluff, 28.6 feet south of 8-inch pine tree, 7.3 feet N 87° W of 8-inch black gum tree, and 20.0 feet S 69° E of 12-inch black oak tree. A standard TVA tablet stamped "HR 66" and set in a precast concrete monument. Steel post with control marker sign set 1 foot north of monument.  
 GEODETIC POSITION: Lat. = 35°06'24.495"; Long. = 84°09'02.732" (T-3)  
 GRID POSITION (North Carolina): X = 460,195.1; Y = 533,741.4 (T-3)  
 Grid Azimuth to HR 65 (distance 1007.6 feet): 0°38'10".  
 ELEVATION: 1532.4 feet (T-4)

**HR 67** (TVA, 1935; Cherokee County, North Carolina)

Located on the right bank of Hiwassee River, on northern point of a ridge due east of and opposite the mouth of Bearpaw Creek, 2.5 miles upstream from house of Tom Floyd, 3.3 feet N 20° E of 8-inch pine, 10.0 feet S 65° E of 6-inch pine, and 5.9 feet S 21° W of 10-inch oak. A standard TVA tablet stamped "HR 67" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.  
 GEODETIC POSITION: Lat. = 35°06'24.070"; Long. = 84°09'33.512" (T-3)  
 GRID POSITION (North Carolina): X = 457,796.7; Y = 536,859.8 (T-3)  
 Grid Azimuth to HR 68 (distance 1264.0 feet): 82°56'50".  
 Grid Azimuth to HR 69 (distance 1848.0 feet): 117°25'20".  
 ELEVATION: 1532.5 feet (T-4)

**HR 68** (TVA, 1935; Cherokee County, North Carolina)

Located on right bank of Bearpaw Creek, at its mouth, on left bank of Hiwassee River, on point of ridge, about 6 feet above 1528-foot contour, 6.0 feet S 80° W of 18-inch red oak, 9.5 feet N 88° W of 12-inch red oak, and 8.4 feet N 80° E of 4-inch white oak. A standard TVA tablet stamped "HR 68" and set in precast concrete monument. Steel post with control marker sign set 1 foot south of monument.  
 GEODETIC POSITION: Lat. = 35°06'51.892"; Long. = 84°09'48.495" (T-3)  
 GRID POSITION (North Carolina): X = 456,542.3; Y = 536,704.6 (T-3)  
 Grid Azimuth to HR 67 (distance 1264.0 feet): 262°56'50".  
 Grid Azimuth to HR 69 (distance 1077.8 feet): 159°00'50".  
 ELEVATION: 1530.7 feet (T-4)

**HR 69** (TVA, 1935; Cherokee County, North Carolina)

Located on left bank of Bearpaw Creek, at its mouth, on point of hill, 6 feet above 1528-foot contour, 8.4 feet N 75° W of 20-inch white oak, 18.9 feet N 20° E of 10-inch pine, 19.8 feet N 50° E of 7-inch pine, and 24.78 feet east of 30-inch red oak snag. A standard TVA tablet stamped "HR 69" and set in precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.  
 GEODETIC POSITION: Lat. = 35°07'01.634"; Long. = 84°09'53.766" (T-3)  
 GRID POSITION (North Carolina): X = 456,156.3; Y = 537,710.9 (T-3)  
 Grid Azimuth to HR 68 (distance 1077.8 feet): 339°00'50".  
 Grid Azimuth to HR 67 (distance 1848.0 feet): 297°25'20".  
 ELEVATION: 1530.7 feet (T-4)

**HR 70** (TVA, 1935; Cherokee County, North Carolina)

Located about 3000 feet above mouth of Bearpaw Creek and on left bank of same, 0.5 mile downstream from site of old wood bridge across Bearpaw Creek on Suit-Vests road, 150 feet northeast of home of Wesley Johnson, 100 feet northwest of Johnson's barn, 15 feet higher than old road, 12.0 feet N 40° W of 5-inch oak, 9.3 feet N 20° E of 5-inch oak, and 10.6 feet west of 2-inch hickory. A standard TVA tablet stamped "HR 70" and set in a precast concrete monument. Steel post with control marker sign set 1 foot north of monument.  
 GEODETIC POSITION: Lat. = 35°06'43.865"; Long. = 84°10'25.165" (T-3)  
 GRID POSITION (North Carolina): X = 453,458.0; Y = 536,052.8 (T-3)  
 Grid Azimuth to HR 71 (distance 730.6 feet): 1°11'10".  
 ELEVATION: 1537.6 feet (T-4)

**HR 70 A** (TVA, 1935; Cherokee County, North Carolina)

Located 0.6 mile northwest of Bearpaw Creek Bridge, on south side of Vests-Suit road, 100 feet southeast of home of Bob Hunsuckle, north of corn field, 6.43 feet from a 14-inch sycamore tree, 34.00 feet from a 14-inch post oak tree, and 49.36 feet from a 20-inch black oak tree. A standard TVA tablet stamped "HR 70 A" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot south of monument.  
 GEODETIC POSITION: Lat. = 35°06'53.096"; Long. = 84°11'27.756" (T-3)  
 GRID POSITION (North Carolina): X = 448,314.3; Y = 537,256.1 (T-3)  
 GRID POSITION (Tennessee): X = 2,541,023.5; Y = 268,098.6 (T-3)  
 ELEVATION: 1650.9 feet (T-4)

**HR 71** (TVA, 1935; Cherokee County, North Carolina)

Located 0.3 mile east of Bearpaw Baptist Church, on right bank of Hiwassee Reservoir (Bearpaw Creek Arm) about 1/4 mile below headout of lake, about 3500 feet above mouth of Bearpaw Creek, on flat point of ridge 25 feet above clearing line of lake, 13.9 feet S 55° E of 14-inch pine, 5.9 feet S 30° W of 6-inch pine, and 15.1 feet N 55° E of 4-inch dogwood. A standard TVA tablet stamped "HR 71" and set in concrete monument. Steel post with control marker sign set 1 foot south of monument.  
 GEODETIC POSITION: Lat. = 35°06'36.641"; Long. = 84°10'24.889" (T-3)  
 GRID POSITION (North Carolina): X = 453,442.9; Y = 535,322.3 (T-3)  
 Grid Azimuth to HR 70 (distance 730.6 feet): 181°11'10".  
 ELEVATION: 1544.2 feet (T-4)



**HR 91 (TVA, 1935; Cherokee County, North Carolina)**

Located at mouth of Beaverdam Creek, on left bank of Beaverdam Creek, on right bank of Hiwassee Lake on point of hill, 4.55 feet east of 24-inch pine, 14.72 feet southeast of 8-inch pine, and 12.78 feet west of 4-inch hickory. A standard TVA tablet stamped "HR 91" and set in precast concrete monument. Steel post with control marker sign set 1 foot southeast of monument.

GEODETIC POSITION: Lat. = 35°09'52.935"; Long. = 84°09'57.710" (T-3)  
 GRID POSITION (North Carolina): X = 456,729.9; Y = 555,021.6 (T-3)  
 Grid Azimuth to HR 92 (distance 1350.4 feet): 161°19'20".  
 ELEVATION: 1536.8 feet (T-4)

**HR 92 (TVA, 1935; Cherokee County, North Carolina)**

Located about 1.8 miles northwest of Ogreeta, on right bank of Hiwassee River and left bank of Beaverdam Creek, at mouth of Beaverdam Creek, on point of ridge, 5 feet above 1528-foot contour, 17.88 feet S 05° W of 10-inch maple tree, 22.10 feet N 54° W of 12-inch white oak tree, and 32.19 feet S 52° E of 6-inch white oak tree. A standard TVA tablet stamped "HR 92" and set in a precast concrete monument. Steel post with control marker sign set 1 foot north of monument.

GEODETIC POSITION: Lat. = 35°10'05.350"; Long. = 84°10'03.714" (T-3)  
 GRID POSITION (North Carolina): X = 456,297.4; Y = 556,300.9 (T-3)  
 Grid Azimuth to HR 91 (distance 1350.4 feet): 341°19'20".  
 Grid Azimuth to HR 93 (distance 1561.4 feet): 77°06'10".  
 ELEVATION: 1536.3 feet (T-4)

**HR 93 (TVA, 1935; Cherokee County, North Carolina)**

Located opposite mouth of Beaverdam Creek, on left bank of Hiwassee Lake, on point of small ridge, on Fowler Bend, 1.2 miles north of Hiwassee Village, 3.25 feet northwest of 8-inch poplar, 5.81 feet southeast of triple dogwood, and 11.35 feet east of 6-inch white oak. A standard TVA tablet stamped "HR 93" and set in precast concrete monument. Steel post with control marker sign set approximately 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°10'01.123"; Long. = 84°10'21.805" (T-3)  
 GRID POSITION (North Carolina): X = 454,775.4; Y = 555,952.4 (T-3)  
 Grid Azimuth to HR 92 (distance 1561.4 feet): 257°06'10".  
 ELEVATION: 1535.5 feet (T-4)

**HR 94 (TVA, 1935; Cherokee County, North Carolina)**

Located on left bank Beaverdam Creek, about 1.0 mile above mouth, 0.9 mile west of Betts Gap, 300 feet downstream from Muddy Creek, between two small drains, 6 feet above 1528-foot contour, 15.39 feet S 67° E of 4-inch white oak, 3.35 feet west of 2-inch dogwood, and 13.0 feet N 13° E of 8-inch red oak. A standard TVA tablet stamped "HR 94" and set in precast concrete monument. Steel post with control marker sign set approximately 1 foot northeast of monument.

GEODETIC POSITION: Lat. = 35°10'26.669"; Long. = 84°09'44.180" (T-3)  
 GRID POSITION (North Carolina): X = 458,028.9; Y = 558,363.9 (T-3)  
 Grid Azimuth to HR 95 (distance 644.6 feet): 41°56'50".  
 ELEVATION: 1537.1 feet (T-4)

**HR 95 (TVA, 1935; Cherokee County, North Carolina)**

Located on right bank of Beaverdam Creek, about 1.0 mile above mouth, 0.9 mile south of Bethel Church, 4.8 feet northeast of 3-inch bellwood, 12.7 feet east of 3-inch twin dogwood, and 10.88 feet south of 6-inch bellwood. A standard TVA tablet stamped "HR 95" and set in precast concrete monument. Steel post with control marker sign set approximately 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°10'21.711"; Long. = 84°09'49.063" (T-3)  
 GRID POSITION (North Carolina): X = 457,598.0; Y = 557,889.4 (T-3)  
 Grid Azimuth to HR 94 (distance 644.6 feet): 221°56'50".  
 ELEVATION: 1530.5 feet (T-4)

**HR 96 (TVA, 1935; Cherokee County, North Carolina)**

Located on the left bank of Beaverdam Creek, 1/4 mile below mouth of Thompson Creek, 0.9 mile northwest of Betts Gap, 5.75 feet southwest of 10-inch sourwood, 7.79 feet east of 12-inch pine, and 7.93 feet southeast of 6-inch paw paw. A standard TVA tablet stamped "HR 96" and set in a precast concrete post. Steel post with control marker sign set approximately 1 foot south of monument.

GEODETIC POSITION: Lat. = 35°10'41.955"; Long. = 84°09'33.521" (T-3)  
 GRID POSITION (North Carolina): X = 458,992.8; Y = 559,866.1 (T-3)  
 Grid Azimuth to HR 97 (distance 415.6 feet): 197°00'40".  
 ELEVATION: 1537.7 feet (T-4)

**HR 97 (TVA, 1935; Cherokee County, North Carolina)**

Located on the right bank of Beaverdam Creek, 1/4 mile below mouth of Thompson Creek, 0.65 mile southeast of Bethel Church, 10.8 feet S 20° E of 12-inch white pine, 6.1 feet N 31° W of 6-inch pine, and 7.4 feet N 47° E of 12-inch pine. A standard TVA tablet stamped "HR 97" and set in precast concrete monument. Steel post with control marker sign set approximately 1 foot north of monument.

GEODETIC POSITION: Lat. = 35°10'45.944"; Long. = 84°09'32.306" (T-3)  
 GRID POSITION (North Carolina): X = 459,114.4; Y = 560,263.6 (T-3)  
 Grid Azimuth to HR 96 (distance 415.6 feet): 17°00'40".  
 ELEVATION: 1534.6 feet (T-4)

**HR 98 (TVA, 1935; Cherokee County, North Carolina)**

Located about 2-1/2 miles northwest of Ogreeta, on an inland northwest of Fowler Bend, 1000 feet southeast of the mouth of Rose Creek, 6.55 feet N 22° W of 6-inch pine tree, 14.12 feet S 29° E of 6-inch oak tree, and 10.90 feet S 62° W of 12-inch oak tree. A standard TVA tablet stamped "HR 98" and set in a precast concrete monument. Steel post with control marker sign set 1 foot north of monument.

GEODETIC POSITION: Lat. = 35°10'02.202"; Long. = 84°10'49.891" (T-3)  
 GRID POSITION (North Carolina): X = 452,452.6; Y = 556,182.9 (T-3)  
 Grid Azimuth to HR 99 (distance 1016.3 feet): 20°52'50".  
 Grid Azimuth to HR 100 (distance 1636.4 feet): 329°48'30".  
 ELEVATION: 1528.5 feet (T-4)

**HR 99 (TVA, 1940; Cherokee County, North Carolina)**

Located 0.9 mile upstream from Hiwassee Dam, on right bank of Hiwassee Reservoir, 500 feet east of mouth of Rose Creek, about 15 feet above clearing line of Hiwassee Reservoir, on point of land, 12.55 feet south of 10-inch pine, 12.77 feet north of 8-inch post oak, and 5.67 feet N 30° W of 3-inch hickory. A standard TVA tablet stamped "HR 99" and set in precast concrete monument. Steel post with control marker sign set approximately 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°09'52.635"; Long. = 84°10'53.652" (T-3)  
 GRID POSITION (North Carolina): X = 452,090.4; Y = 555,233.3 (T-3)  
 Grid Azimuth to HR 98 (distance 1016.3 feet): 200°52'50".  
 Grid Azimuth to HR 100 (distance 1273.1 feet): 291°24'50".  
 ELEVATION: 1532.6 feet (T-4)

**HR 100 (TVA, 1940; Cherokee County, North Carolina)**

Located on Fowler Bend, opposite mouth of Rose Creek, approximately 1.0 mile upstream from Hiwassee Dam, on left bank of Hiwassee Lake, 8.78 feet northwest of 2-inch hickory, 17.73 feet southwest of 4-inch chestnut oak, and 11.14 feet northeast of 8-inch hickory. A standard TVA tablet stamped "HR 100" and set in precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

GEODETIC POSITION: Lat. = 35°09'48.655"; Long. = 84°10'39.103" (T-3)  
 GRID POSITION (North Carolina): X = 453,275.6; Y = 554,768.5 (T-3)  
 Grid Azimuth to HR 99 (distance 1273.1 feet): 111°24'50".  
 Grid Azimuth to HR 98 (distance 1636.4 feet): 149°48'30".  
 ELEVATION: 1537.0 feet (T-4)

**HR 101 (TVA, 1935; Cherokee County, North Carolina)**

Located 1.6 miles southwest of Bethel Church, 0.5 mile upstream from the mouth and 250 feet north of center line on left bank of Rose Creek, on point of ridge, 5 feet above 1528-foot contour, 17.77 feet S 02° E of 24-inch oak stump, 19.61 feet S 75° W of 4-inch pine tree, and 12.89 feet N 68° W of 3-inch pine tree. A standard TVA tablet stamped "HR 101" and set in a precast concrete monument.

Steel post with control marker sign set approximately 1 foot northeast of monument.  
 GEODETIC POSITION: Lat. = 35°10'21.039"; Long. = 84°11'23.914" (T-3)  
 GRID POSITION (North Carolina): X = 449,731.5; Y = 558,232.0 (T-3)  
 Grid Azimuth to HR 102 (distance 473.3 feet): 27°31'50".  
 ELEVATION: 1530.6 feet (T-4)

**HR 102 (TVA, 1935; Cherokee County, North Carolina)**

Located about 3 miles northwest of Ogreeta, 0.5 mile upstream from mouth and on right bank of Rose Creek, 250 feet south of the center line of Rose Creek, in old field, at point of ridge, 5 feet above 1528-foot contour, 6.6 feet S 65° E of 2-inch hickory, 8.55 feet N 65° E of 2-inch dogwood tree, and 8.72 feet N 17° E of 2-inch hickory tree. A standard TVA tablet stamped "HR 102" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot southwest of monument.

GEODETIC POSITION: Lat. = 35°10'16.780"; Long. = 84°11'26.282" (T-3)  
 GRID POSITION (North Carolina): X = 449,512.7; Y = 557,812.3 (T-3)  
 Grid Azimuth to HR 101 (distance 473.3 feet): 207°31'50".  
 ELEVATION: 1530.0 feet (T-4)

**HR 116 (TVA, 1935; Cherokee County, North Carolina)**

Located about 2 miles southeast of Oak Park on road to Postell, 900 feet west of North Carolina Highway 294, and 550 feet west from home of J. A. Keenan. A standard TVA tablet stamped "HR 116" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°05'24.409"; Long. = 84°12'43.276" (T-3)  
 GRID POSITION (North Carolina): X = 441,578.9; Y = 528,631.5 (T-3)  
 GRID POSITION (Tennessee): X = 2,534,914.0; Y = 259,017.9 (T-3)  
 ELEVATION: 1740.485 feet or 530.501 meters (T-2)

**HR 117 (TVA, 1935; Cherokee County, North Carolina)**

Located 0.5 mile southwest of Oak Park, on State Highway 294 right of way, 140 feet southwest of point where Oak Park Road leaves State Highway 294 at junction of South Shoal Creek and Thompson Branch, 140 feet west of a new bridge over South Shoal Creek, at foot of hill, 6.6 feet N 45° W of 8-inch pine, 17.0 feet N 20° E of 3-inch hickory, and 5.4 feet S 45° E of 8-inch poplar. A standard TVA tablet stamped "HR 117" and set in a precast concrete monument. Steel post with control marker sign set 1 foot west of monument.

GEODETIC POSITION: Lat. = 35°06'47.128"; Long. = 84°14'07.576" (T-3)  
 GRID POSITION (North Carolina): X = 435,024.5; Y = 537,350.4 (T-3)  
 ELEVATION: 1575.942 feet or 480.348 meters (T-2)

**HR 118 (TVA, 1935; Cherokee County, North Carolina)**

Located 0.1 mile east of store at Oak Park, 60 feet south of center line of roadway, 50 feet north of Mt. Carmel Church, 63.50 feet from 5-inch twin oak tree, 61.50 feet from 6-inch black oak tree, and 52.95 feet from 4-inch persimmon tree. A standard TVA tablet stamped "HR 118" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot south of monument.

NOTE: Searched for but not recovered, May 1953. Possibly destroyed by grading in churchyard.  
 GEODETIC POSITION: Lat. = 35°07'01.065"; Long. = 84°13'33.163" (T-3)  
 GRID POSITION (North Carolina): X = 437,953.4; Y = 538,606.8 (T-3)  
 ELEVATION: 1709.892 feet or 521.176 meters (T-2)

**HR 119 (TVA, 1935; Cherokee County, North Carolina)**

Located 1.5 miles southeast of Violet, about 100 feet northeast of Rose Creek embayment, 25 feet north of a dirt road, 50 feet east of small branch, 5 feet above 1528-foot contour, approximately 100 feet west of center line of power line, in sage field. A standard TVA tablet stamped "HR 119" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot north of monument.

Reference Mark 1: 8.5 feet Northeast to cross on rock.  
 Reference Mark 2: 12.7 feet North to cross on rock.  
 Reference Mark 3: 3.4 feet South to cross on rock.  
 GEODETIC POSITION: Lat. = 35°10'42.208"; Long. = 84°12'07.048" (T-3)  
 GRID POSITION (North Carolina): X = 446,267.9; Y = 560,556.4 (T-3)

**HR 120 (TVA, 1935; Cherokee County, North Carolina)**

Located 2.5 miles southwest of Unaka, 0.6 mile west of intersection of Joe Brown Highway and dirt road to Bethel Church and Hiwassee Lake, 20 feet north of center line of Joe Brown Highway, 175 feet south of residence occupied by Jim Garrett, 7 feet northwest of mailbox at edge of path leading from mailbox to Garrett's residence, 4 feet south of old board fence, and 9.3 feet west from mailbox post. A standard TVA tablet stamped "HR 120" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

Reference Mark 1: 35.4 feet N 60° E to blaze on 12-inch black walnut.  
 Reference Mark 2: 6.7 feet N 50° W to paint spot on gate post.  
 GEODETIC POSITION: Lat. = 35°11'22.790"; Long. = 84°10'37.947" (T-3)  
 GRID POSITION (North Carolina): X = 453,867.5; Y = 564,266.9 (T-3)  
 ELEVATION: 1730 feet (T-5)

**HR 121 (TVA, 1935; Cherokee County, North Carolina)**

Located 1.9 miles southwest of Unaka, at intersection of Joe Brown Highway and dirt road to Bethel Church and Hiwassee Lake, on property of W. A. Thompson, 100 feet south of residence occupied by S. W. Thompson, 200 feet west of small branch, 2 feet east of porch to store owned by W. A. Thompson, 3.6 feet from

northeast corner of store building, 15.0 feet N 55° W from fence post. A standard TVA tablet stamped "HR 121" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot south of monument.

Reference Mark 1: 53.0 feet to painted spot on 20-inch forked willow.  
 GEODETIC POSITION: Lat. = 35°11'12.028"; Long. = 84°10'00.609" (T-3)  
 GRID POSITION (North Carolina): X = 456,905.5; Y = 563,019.0 (T-3)  
 ELEVATION: 1656 feet (T-5)

HR 122 (TVA, 1935; Cherokee County, North Carolina)

Located 1.5 miles southwest of Unaka, 2100 feet northeast of intersection of Joe Brown Highway and dirt road to Bethel Church and Hiwassee Lake, 100 feet east of residence occupied by Isaac Thompson, 100 feet north of barn opposite house, 200 feet west of most eastward barn, in fence line on north side of highway, 30 feet east of small branch, 1 foot from fence post, 7.58 feet from a chestnut fence post, 2.19 feet from a chestnut fence post, and 30.00 feet from a chestnut fence post. A standard TVA tablet stamped "HR 122" and set in a precast concrete monument.

Report on Condition (TVA, 1960): Monument found leaning, but was usable.  
 GEODETIC POSITION: Lat. = 35°11'25.271"; Long. = 84°09'42.183" (T-3)  
 GRID POSITION (North Carolina): X = 458,502.3; Y = 564,276.5 (T-3)

HR 123 (TVA, 1935; Cherokee County, North Carolina)

Located about 1 mile (airline) south of Unaka, 2.9 miles north of Ogreeta, on the property of Fred Martin, 3000 feet east of Beaverdam Creek, 75 feet west of vacant house, 160 feet west of shed, 18 feet north of a spring, on the north side of old road, in a cultivated valley, 8.9 feet S 40° E of 3-inch cherry, and 16.3 feet S 25° W of 5-inch laurel. A standard TVA tablet stamped "HR 123" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot south of monument.

GEODETIC POSITION: Lat. = 35°10'44.059"; Long. = 84°08'40.752" (T-3)  
 GRID POSITION (North Carolina): X = 463,378.0; Y = 559,851.3 (T-3)

HR 124 (TVA, 1935; Cherokee County, North Carolina)

Located 3.0 miles southeast of Unaka, 2.2 miles north of Ogreeta, and 4 feet west of barn owned by John McDonald. A standard TVA tablet stamped "HR 124" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°10'29.834"; Long. = 84°08'05.626" (T-3)  
 GRID POSITION (North Carolina): X = 466,215.4; Y = 558,264.3 (T-3)

HR 127 (TVA, 1935; Cherokee County, North Carolina)

Located 3.1 miles northwest of Murphy, 20 feet east of center line of Murphy-Grandview gravel road, 300 feet north of lane running to residence of George Lovingsood, 31 feet south of culvert, in fence line along east side of Murphy-Grandview Road. A standard TVA tablet stamped "HR 127" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

Reference Mark 1: 36.8 feet N 30° E to painted cross on telephone pole.  
 GEODETIC POSITION: Lat. = 35°07'17.379"; Long. = 84°03'09.516" (T-3)  
 GRID POSITION (North Carolina): X = 489,776.0; Y = 537,633.7 (T-3)  
 ELEVATION: 1798 feet (T-5)

HR 128 (TVA, 1935; Cherokee County, North Carolina)

Located 4.8 miles north of Murphy, in the vicinity of Owl Creek, 30 feet east of center line of Murphy-Grandview gravel road, on property of Mrs. J. S. Dockery, 100 feet east of concrete bridge over Owl Creek at Owl Creek, in fence corner on east side of road at intersection of Murphy-Grandview road and dirt lane leading to residence occupied by Mrs. J. S. Dockery. A standard TVA tablet stamped "HR 128" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

GEODETIC POSITION: Lat. = 35°08'24.580; Long. = 84°02'44.699" (T-3)  
 GRID POSITION (North Carolina): X = 492,176.8; Y = 544,253.0 (T-3)  
 Grid Azimuth to HR 129 (distance 1155.5 feet): 200°29'40"

HR 129 (TVA, 1935; Cherokee County, North Carolina)

Located 5.0 miles north of Murphy and 0.2 mile north of Owl Creek settlement, 20 feet east of center line of Murphy-Grandview gravel road, on property of Mrs. J. S. Dockery, 100 feet west of Owl Creek, and 10 feet south of east end of small culvert. A standard TVA tablet stamped "HR 129" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

Reference Mark 1: 80.1 feet N 55° E to painted cross on telephone pole.  
 GEODETIC POSITION: Lat. = 35°08'35.476"; Long. = 84°02'40.495" (T-3)  
 GRID POSITION (North Carolina): X = 492,581.4; Y = 545,335.4 (T-3)  
 Grid Azimuth to HR 128 (distance 1155.5 feet): 20°29'40"

HR 130 (TVA, 1935; Cherokee County, North Carolina)

Located 6.0 miles north of Murphy, and 1.2 miles north of Owl Creek settlement, 40 feet east of center line of Murphy-Grandview gravel road, 100 feet northwest of Hanging Dog Church, 15 feet east of north end of stone retaining wall, and 3.2 feet S 35° W from 3-inch spruce. A standard TVA tablet stamped "HR 130" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

Reference Mark 1: 26.5 feet N 30° W to paint spot on 6-inch triple maple.  
 GEODETIC POSITION: Lat. = 35°09'12.058"; Long. = 84°02'29.259" (T-3)  
 GRID POSITION (North Carolina): X = 493,701.0; Y = 548,981.4 (T-3)  
 ELEVATION: 1914 feet (T-5)

HR 132 (TVA, 1935; Cherokee County, North Carolina)

Located 1.7 miles southwest of Grandview post office and 0.7 mile northeast of Ebenezer, 30 feet west of center line of Grandview-Ebenezer dirt road, on property of Sarah Jane Dockery, 75 feet N 41° E from northeast corner of Ben Dockery millhouse, 20 feet S 09° E from southeast corner of bridge over mill pond, 7 feet east of left bank of Hanging Dog Creek, and 40.2 feet S 37° E of 12-inch white oak stump. A standard TVA tablet stamped "HR 132" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot south of monument.

Reference Mark 1: 30.7 feet S 62° W to painted cross on rock.  
 Reference Mark 2: 52.6 feet N 65° W to painted cross on rock.  
 GEODETIC POSITION: Lat. = 35°09'23.138"; Long. = 84°03'31.144" (T-3)  
 GRID POSITION (North Carolina): X = 488,626.3; Y = 550,361.3 (T-3)  
 Grid Azimuth to HR 133 (distance 341.4 feet): 33°11'00"  
 ELEVATION: 1685.436 feet or 513.722 meters (T-2)

HR 133 (TVA, 1935; Cherokee County, North Carolina)

Located 1.7 miles southwest of Grandview post office and 0.7 mile northeast of Ebenezer, 50 feet west of Grandview-Ebenezer dirt road, on the J. E. Graves property, in east-west fence line, 250 feet downstream from Ben Dockery mill on Hanging Dog Creek, at upper edge of cultivated field, and 17.0 feet southwest of 2-inch persimmon. A standard TVA tablet stamped "HR 133" and set in a precast concrete monument. Steel post with control marker sign set 1 foot west of monument.

Reference Mark 1: 79.7 feet N 75° E to painted cross on rock.  
 GEODETIC POSITION: Lat. = 35°09'20.221; Long. = 84°03'33.217" (T-3)  
 GRID POSITION (North Carolina): X = 488,439.4; Y = 550,075.6 (T-3)  
 Grid Azimuth to HR 132 (distance 341.4 feet): 213°11'00"  
 ELEVATION: 1682.441 feet or 512.809 meters (T-2)

HR 135 (TVA, 1935; Cherokee County, North Carolina)

Located 2.3 miles southwest of Grandview post office and at Ebenezer, 50 feet north of Ebenezer-Grandview dirt road, on property of Ebenezer Baptist Church, 320 feet northeast of Ebenezer School, 200 feet northeast of Ebenezer Baptist Church, at first turn in road east of Ebenezer School, 29.4 feet northeast of transformer pole, 13.9 feet west of 6-inch post oak, and 35.1 feet northeast of 16-inch white oak. A standard TVA tablet stamped "HR 135" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°09'00.467"; Long. = 84°03'52.007" (T-3)  
 GRID POSITION (North Carolina): X = 486,779.5; Y = 548,160.7 (T-3)  
 ELEVATION: 1710.525 feet or 521.369 meters (T-2)

HR 136 (TVA, 1935; Cherokee County, North Carolina)

Located 1.5 miles southwest of Ebenezer School, 250 feet east of Ebenezer-Grape Creek dirt road, on property of Charles Dockery, 104 feet east of residence of Charles Dockery, 60 feet north of northeast corner of hogpen, 20 feet south of old field road to pasture, 10 feet west of fence, 104.0 feet S 60° E of southeast corner of house, 12.0 feet S 76° W of fence post, and 52.2 feet north of 4-inch sassafras. A standard TVA tablet stamped "HR 136" and set in a precast concrete monument. Steel post with control marker sign set 1 foot east of monument.

GEODETIC POSITION: Lat. = 35°08'55.474"; Long. = 84°04'55.140" (T-3)  
 GRID POSITION (North Carolina): X = 481,518.3; Y = 547,924.4 (T-3)  
 ELEVATION: 1843.274 feet or 561.831 meters (T-2)

HR 137 X (TVA, 1939; Cherokee County, North Carolina)

Located 6.5 miles northwest of Murphy, in west corner of intersection of Joe Brown Highway and Grape Creek Road, 40 feet west of center line of Grape Creek Road, 50 feet south of center line of Joe Brown Highway, on north line of transmission line right of way, 4.92 feet N 40° W of 6-inch pine stump, 13.10 feet S 70° E of 8-inch post oak stump, and 11.49 feet south of 4-inch pine stump. A standard TVA tablet stamped "HR 137 X" and set in a precast concrete monument.

GEODETIC POSITION: Lat. = 35°07'27.362"; Long. = 84°05'47.250" (T-3)  
 GRID POSITION (North Carolina): X = 476,739.9; Y = 539,250.5 (T-3)  
 ELEVATION: 1669.90 feet (T-3)

HR 138 (TVA, 1935; Cherokee County, North Carolina)

Located 6.8 miles northwest of Murphy, on the property of M. I. Hall, 680 feet N 37° 30' W from northeast corner of residence occupied by M. I. Hall, 340 feet N 37° 30' W from the center line of Grape Creek, 10 feet northwest of a fence, and in a pasture. A standard TVA tablet stamped "HR 138" and set in a precast concrete monument.

NOTE: Searched for but not recovered, April 1957.  
 GEODETIC POSITION: Lat. 35°07'44.200"; Long. = 84°06'07.452" (T-3)  
 GRID POSITION (North Carolina): X = 475,151.6; Y = 541,036.6 (T-3)  
 ELEVATION: 1542.323 feet or 470.101 meters (T-2)

HR 139 (TVA, 1935; Cherokee County, North Carolina)

Located about 1 mile southwest of Violet, 1400 feet north of house of Garfield Morrow, about 150 feet east of new log house in open field, 15.6 feet N 87° W of 16-inch pine stump, 22.2 feet north of 5-inch walnut, and 48.0 feet east of 8-inch twin maple. A standard TVA tablet stamped "HR 139" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot northeast of monument.

GEODETIC POSITION: Lat. = 35°11'15.649"; Long. = 84°14'03.443" (T-3)  
 GRID POSITION (North Carolina): X = 436,798.0; Y = 564,439.9 (T-3)  
 Grid Azimuth to HR 140 (distance 1052.1 feet): 10°48'30"

HR 140 (TVA, 1935; Cherokee County, North Carolina)

Located about 1 mile southwest of Violet, 15 feet east of a branch, 400 feet north of house of Garfield Morrow, 14.2 feet N 35° W of 24-inch locust, and 23.7 feet S 27° W of 5-inch walnut. A standard TVA tablet stamped "HR 140" and set in a precast concrete monument. Steel post with control marker sign set 1 foot northeast of monument.

Reference Mark 1: 27.9 feet west to cross on large rock.  
 GEODETIC POSITION: Lat. = 35°11'05.340"; Long. = 84°14'05.160" (T-3)  
 GRID POSITION (North Carolina): X = 436,600.8; Y = 563,406.7 (T-3)  
 Grid Azimuth to HR 139 (distance 1052.1 feet): 190°48'30"

HR 152 (TVA, 1935; Cherokee County, North Carolina)

Located on right bank of Hiwassee River, just upstream from Hiwassee Dam, 24.8 feet N 55° E of 5-inch maple, 11.4 feet S 10° W of 4-inch black gum, and 14.0 feet N 70° W of 12-inch pine. A standard TVA tablet stamped "HR 152" and set in a precast concrete monument. Steel post with control marker sign set approximately 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°09'09.947; Long. = 84°10'43.827" (T-3)  
 GRID POSITION (North Carolina): X = 452,679.9; Y = 550,881.2 (T-3)  
 Grid Azimuth to HR 154 (distance 126.5 feet): 20°44'00"  
 Grid Azimuth to HR 153 (distance 1195.1 feet): 316°15'40"  
 ELEVATION: 1533.2 feet (T-4)

HR 153 (TVA, 1935; Cherokee County, North Carolina)

Located on left bank of Hiwassee River, 150 feet upstream from east end of Hiwassee Dam, at north extremity of cluster of large rock outcroppings, about 15 feet above 1528-foot contour, 9.8 feet northeast of 3-inch maple, 6.0 feet west of west face of rock, and 24.4 feet south of 18-inch hickory. A standard TVA tablet stamped "HR 153" grouted into rock. Steel post with control marker sign set approximately 4 feet east of monument.

GEODETIC POSITION: Lat. = 35°09'01.844"; Long. = 84°10'33.347" (T-3)  
 GRID POSITION (North Carolina): X = 453,506.2; Y = 550,017.8 (T-3)  
 Grid Azimuth to HR 152 (distance 1195.1 feet): 136°15'40"  
 Grid Azimuth to HR 156 (distance 118.2 feet): 41°55'00"  
 ELEVATION: 1540.4 feet (T-4)



River bridge. Continue for 2.0 miles where road turns left, continue straight ahead for 6.9 miles, cross Shuler Creek, turn right, go 2.5 miles to where road crosses Shuler Creek again, turn left, go 4.1 miles to Sandy Gap. Leave car and walk east on State Line Ridge about 2.0 miles to station, 8.5 feet S 56° W of 18-inch black oak tree, and 38.0 feet S 78° E of 10-inch white oak tree. Station is a 1- by 1-inch angle iron stamped "MCD 7".  
 GRID POSITION (Tennessee): X = 2,546,394.2; Y = 316,209.2 (T-4)  
 ELEVATION: 3674 feet (T-5)

#### MCD 203 (TVA, 1954; Cherokee County, North Carolina)

Located about 1.5 miles northwest of Grape Creek School and church, in center line of Hiwassee Dam to Murphy power line at second H-structure east of crossroads in gap on Joe Brown Highway. To reach from post office in Murphy, go northwest on Joe Brown Highway 2.6 miles to Y-road at Dockery Store, keep left on Joe Brown Highway and go 3.2 miles where old road and power line cross highway. Leave car and walk east 1500 feet up power line to station, 36.8 feet S 55° E from power pole, 37.6 feet S 80° E from power pole, and 58.0 feet S 5° W from 8-inch pine tree. Station is a 1- by 1-inch angle iron stamped "MCD 203".  
 GRID POSITION (Tennessee): X = 2,570,572.7; Y = 271,414.6 (T-4)

#### MCD 204 (TVA, 1954; Cherokee County, North Carolina)

Located on Monroe Mountain, about 1/2 mile east of Allen Gap. To reach from Murphy Post Office, go northwest on Joe Brown Highway 2.6 miles to Y-road at Dockery Store. Turn right on Hanging Dog Road, go 7.0 miles to Davis Creek Road, turn right up this road and go 4.5 miles to where road turns left up mountain. Turn left, go about 3.0 miles to Celia Gap (first gap east of Allen Gap), leave car, walk south up ridge about 1500 feet to station on north end of ridge bearing north and south. Station is 3.7 feet S 25° W of 14-inch black oak tree, 25.3 feet N 9° W of 36-inch red oak tree, and 24.9 feet N 48° E of 30-inch red oak tree. Station is a 1- by 1-inch angle iron stamped "MCD 204".  
 GRID POSITION (Tennessee): X = 2,581,687.8; Y = 304,406.7 (T-4)  
 ELEVATION: 3171 feet (T-5)

#### MCDANIEL (USGS, 1933; Cherokee-Graham Counties, North Carolina)

Located on the southeast end of the southeast one of the two peaks forming the summit of McDaniel Bald. McDaniel Bald is a point on the Snowbird Mountain, and is on the line between Cherokee and Graham Counties, North Carolina. It is 3.3 miles south and 1.4 miles east from the corner of Cherokee-Graham Counties on the North Carolina-Tennessee State line, and is at the head waters of Snowbird Creek on the northeast, Little Snowbird Creek on the southeast, Hanging Dog Creek on the southwest, and Bald River on the northwest. The station is about 1/4 mile southwest of the Coldspring Gap. Station can be easiest reached by public road up Hanging Dog Creek from Grandview post office to mouth of Grindstone Creek, thence by road and trail up Grindstone Creek to Allen Gap, thence along main ridge trail about 1-1/2 miles to station. The top was cleared of timber so that the view is good in all directions. A standard tablet set in top of granite boulder 2 feet in diameter.

Reference Mark 1: A chiseled arrow in stone 21.95 feet from station mark in geodetic azimuth 26°17'.  
 Reference Mark 2: A chiseled cross in top of boulder 17.0 feet from station mark in geodetic azimuth 84°58'.

GEODETIC POSITION: Lat. = 35°14'30.13"N; Long. = 84°00'23.46"W (G-3)

	Geodetic Azimuths		Distances	
Fain	Azimuth	Back Azimuth	Log. Meters	Miles
Pack	10°01'15.4"	190°00'22.0"	4.129647	8.4
Tatham	50 12 55.6	230 03 16.1	4.521125	20.6
	264 47 32.1	84 54 51.1	4.285739	12.0

GRID POSITION (North Carolina): X = 505,753.0; Y = 580,567.3 (G-3)

GRID POSITION (Tennessee): X = 2,595,262.6; Y = 315,370.6 (G-3)

#### MLB 1514 (TVA, 1953; Cherokee County, North Carolina)

Located approximately 10 miles east from Ducktown and on high top of Payne Mountain. To reach from the Junction of Highways 64 and 68 (one mile south of Ducktown), go east on Highway 64 for 9.7 miles to Y-road northeast which is old highway. Turn left (northeast) and go 0.3 mile to a T-road intersection. Turn left on this road and go 0.6 mile to small house and dim road north. Turn left (north) and go 2.6 miles up mountain road to end of truck road and gap near mountain top. Walk south approximately 1200 feet to top of mountain and station site. Station is on highest point on ridge 2 feet northwest of a small rock outcrop. Station is a 1- by 1-inch angle iron.  
 GRID POSITION (Tennessee): X = 2,525,052.9; Y = 242,378.6 (T-4)  
 ELEVATION: 3284 feet (T-5)

#### MURPHY (USCGS, 1933; Cherokee County, North Carolina)

Located on property of First Methodist Episcopal Church in Murphy, on leveled part of grassy meadow between level of churchyard and street and of small branch, 25.595 meters (83.97 feet) east of center line of route 10, 28.81 meters (94.5 feet) south of most westerly of two extreme southern corners of church, and 29.09 meters (95.4 feet) southwest of most easterly of two extreme southern corners of church. 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 block of concrete 3 feet below the ground containing at the center of its upper surface a standard disk triangulation station mark.

Reference mark 1 is a standard disk reference mark with the arrow pointing toward the station set at the center of the top of a square block or post of concrete in grassy meadow, and 18.546 meters (60.85 feet) from station in geodetic azimuth 179°27'.  
 Reference mark 2 is a standard disk reference mark with the arrow pointing toward the station set at the center of the top of an irregular mass of concrete in north end of fifth step from bottom of steps on front (west) side of north wing of Murphy High School building, and about 250 yards from station in geodetic azimuth 234°52'06".  
 Reference mark 3 is a standard disk reference mark with the arrow pointing toward the station set at the center of the top of an irregular mass of concrete and 12.965 meters (42.54 feet) from station in geodetic azimuth 349°30'.

Report on Condition (TVA, 1949): Station recovered in good condition. Steel post with control marker sign set approximately 1 foot northeast of monument.  
 GEODETIC POSITION: Lat. = 35°05'18.17"N; Long. = 84°01'56.91"W (C-2)

To Station	Geodetic Azimuth		Distance	
	(from South)	Second-order	Log. Meters	Meters
Fain USGS	180°19'04.3"		3.572464	3,736.5
Tatham USGS	229 00 04.6		4.456476	28,607.2
Azimuth Mark (RM 2)	234 52 05.5	Third-order		

GRID POSITION (North Carolina): X = 495,184.95; Y = 525,231.54 (C-2)  
 Grid Azimuth to Azimuth Mark (RM 2): 237°46'22".  
 ELEVATION: 1583 feet (T-5)

#### MURPHY COURTHOUSE ( ? , ? ; Cherokee County, North Carolina)

Located in Murphy. Station is center line of spine.  
 GEODETIC POSITION: Lat. = 35°05'12.779"; Long. = 84°01'59.681" (T-3)  
 GRID POSITION (North Carolina): X = 494,927.8; Y = 524,698.8 (T-3)  
 GRID POSITION (Tennessee): X = 2,588,415.7; Y = 258,868.2 (T-3)

#### NAVY A (TVA, 1948; Cherokee County, North Carolina)

Located in rock outcrop on quarry floor at south end of quarry, about 2500 feet below Hiwassee Dam. A 2- by 2-inch bronze tablet stamped "NAVY A".  
 GRID POSITION (North Carolina): X = 450,487.8; Y = 549,482.6 (T-3)

#### NAVY B (TVA, 1948; Cherokee County, North Carolina)

Located in rock outcrop on quarry floor near north end of quarry, about 2500 feet below Hiwassee Dam. A 2- by 2-inch bronze tablet stamped "NAVY B".  
 GRID POSITION (North Carolina): X = 450,554.7; Y = 549,810.7 (T-3)

#### NAVY C (TVA, 1948; Cherokee County, North Carolina)

Located 15 feet south of center line of old quarry road, approximately 700 feet west of northwest end of Hiwassee Dam. A 2- by 2-inch bronze tablet stamped "NAVY C" and set in concrete monument.  
 GRID POSITION (North Carolina): X = 451,913.6; Y = 550,856.5 (T-3)  
 Grid Azimuth to NAVY D (distance 267.2 feet): 271°38'20".  
 Grid Azimuth to HIWASSEE WATER TANK: 297°02'10".

#### NAVY D (TVA, 1948; Cherokee County, North Carolina)

Located approximately 10 feet southwest of center line of old quarry road, and 500 feet west from northwest end of Hiwassee Dam. A 2- by 2-inch bronze tablet stamped "NAVY D" and set in concrete monument.  
 GRID POSITION (North Carolina): X = 452,180.7; Y = 550,848.9 (T-3)  
 Grid Azimuth to NAVY C (distance 267.2 feet): 91°38'20".

#### NAVY E (TVA, 1948; Cherokee County, North Carolina)

Located on sidewalk approximately 150 feet southeast from northwest end of Hiwassee Dam, 10 inches downstream from upstream rail. A 2- by 2-inch bronze tablet stamped "NAVY E".  
 GRID POSITION (North Carolina): X = 452,732.7; Y = 550,690.0 (T-3)  
 Grid Azimuth to NAVY F (distance 435.2 feet): 316°27'10".  
 Grid Azimuth to HR 154 (distance 121.9 feet): 126°46'40".  
 Grid Azimuth to NAVY G (distance 934.2 feet): 316°27'10".  
 Grid Azimuth to CAT TOWER 1 (distance 176.2 feet): 159°27'50".

#### NAVY F (TVA, 1948; Cherokee County, North Carolina)

Station is point on line between NAVY E and NAVY G. A 2- by 2-inch bronze tablet stamped "NAVY F".  
 GRID POSITION (North Carolina): X = 453,032.5; Y = 550,374.6 (T-3)  
 Grid Azimuth to NAVY G (distance 499.0 feet): 316°27'10".  
 Grid Azimuth to NAVY E (distance 435.2 feet): 136°27'10".

#### NAVY G (TVA, 1948; Cherokee County, North Carolina)

Located approximately 100 feet northwest from southeast end of Hiwassee Dam, and about 10 inches downstream from upstream rail. A 2- by 2-inch bronze tablet set on sidewalk.  
 GRID POSITION (North Carolina): X = 453,376.3; Y = 550,012.9 (T-3)  
 Grid Azimuth to NAVY F (distance 499.0 feet): 136°27'10".  
 Grid Azimuth to HR 156 (distance 97.4 feet): 328°27'40".  
 Grid Azimuth to NAVY J (distance 1917.9 feet): 216°52'10".

#### NAVY H (TVA, 1948; Cherokee County, North Carolina)

Located 35 feet northwest from center of Hiwassee water tank, on top cut above asphalt road access to Hiwassee Water Tank. A 2- by 2-inch bronze tablet stamped "NAVY H" and set in concrete monument.  
 GRID POSITION (North Carolina): X = 453,916.3; Y = 549,848.0 (T-3)  
 ELEVATION: 1712.7 feet (T-4)

#### NAVY J (TVA, 1948; Cherokee County, North Carolina)

Located approximately 6 feet east of 1928-foot contour, on point of ridge, on left bank of Hiwassee Reservoir. A 2- by 2-inch bronze tablet set in concrete monument.  
 GRID POSITION (North Carolina): X = 454,527.0; Y = 551,547.1 (T-3)  
 Grid Azimuth to NAVY K (distance 932.0 feet): 126°45'30".  
 Grid Azimuth to NAVY G (distance 1917.9 feet): 36°52'10".

#### NAVY K (TVA, 1948; Cherokee County, North Carolina)

Located 5 feet north of 1928-foot contour, on point of ridge, on left bank of Hiwassee Reservoir. A 2- by 2-inch bronze tablet set in concrete monument.  
 GRID POSITION (North Carolina): X = 453,780.4; Y = 552,104.8 (T-3)  
 Grid Azimuth to NAVY J (distance 932.0 feet): 306°45'30".  
 Grid Azimuth to NAVY L (distance 907.5 feet): 139°11'00".

#### NAVY L (TVA, 1948; Cherokee County, North Carolina)

Located approximately 10 feet northwest of 1928-foot contour, on point of ridge, on left bank of Hiwassee Reservoir. A 2- by 2-inch bronze tablet set in concrete monument.  
 GRID POSITION (North Carolina): X = 453,187.2; Y = 552,791.6 (T-3)  
 Grid Azimuth to NAVY K (distance 907.5 feet): 319°11'00".  
 Grid Azimuth to NAVY E (distance 2150.1 feet): 12°12'10".  
 Grid Azimuth to NAVY M (distance 1611.4 feet): 45°10'00".

#### NAVY M (TVA, 1948; Cherokee County, North Carolina)

Located approximately 6 feet south of 1928-foot contour on point of ridge, on right bank of Hiwassee Reservoir. A 2- by 2-inch bronze tablet set in concrete monument.  
 GRID POSITION (North Carolina): X = 452,044.6; Y = 551,655.6 (T-3)  
 Grid Azimuth to NAVY L (distance 1611.4 feet): 225°10'00".  
 Grid Azimuth to NAVY N (distance 1047.0 feet): 313°49'10".

#### NAVY N (TVA, 1948; Cherokee County, North Carolina)

Located approximately 260 feet northeast from northwest end of Hiwassee Dam. A 2- by 2-inch bronze tablet stamped "NAVY N" and set in concrete monument.  
 GRID POSITION (North Carolina): X = 452,800.1; Y = 550,930.8 (T-3)  
 Grid Azimuth to NAVY M (distance 1047.0 feet): 133°49'10".  
 Grid Azimuth to NAVY E (distance 250.1 feet): 15°37'10".

**NC 158** (NCGS, 1934; Cherokee County, North Carolina)

Located about 150 feet southeast from Log Cabin Store in Ranger, about 200 feet south of U. S. Highway 64, on the Nantahala National Forest boundary, about 110 feet northwest of railroad trestle. A standard monument with bronze tablet marked "NC" and stamped "158".

GEODETIC POSITION: Lat. = 35°01'30.596; Long. = 84°07'25.354" (T-3)  
 GRID POSITION (North Carolina): X = 466,741.5; Y = 503,652.0 (T-3)  
 Grid Azimuth to NC 158 Az. Mk. (distance 570.4 feet): 141°23'20".  
 ELEVATION: 1563.763 feet or 476.636 meters (T-2)

**NC 158 AZ MK** (NCGS, 1934; Cherokee County, North Carolina)

Located 200 feet northwest from Log Cabin Store in Ranger, 18 feet from center line of the highway. A standard monument with bronze tablet marked "NC" and stamped "158".

GEODETIC POSITION: Lat. = 35°01'34.818; Long. = 84°07'29.903" (T-3)  
 GRID POSITION (North Carolina): X = 466,385.7; Y = 504,097.7 (T-3)  
 Grid Azimuth to NC 158 (distance 570.4 feet): 321°23'20".  
 ELEVATION: 1567.667 feet or 477.826 meters (T-2)

**NC 159** (NCGS, 1934; Cherokee County, North Carolina)

Located on U. S. Highway 64 in the Sunny Point District, about 15.0 miles southwest of Murphy, 0.5 mile east of Sunny Point School and 0.5 mile northwest from Shields Store, 33.5 feet north from center line of the old North Carolina Highway 28, 52.1 feet northeast of the northeast corner of a concrete culvert under highway, 70.4 feet northwest of a 12-inch white oak tree, 44.2 feet southwest of a 9-inch post oak tree, and about 350 feet due east of residence of Myrtle Moore. A standard monument with bronze tablet marked "NC" and stamped "159". Steel post with control marker sign set 1 foot north of monument.

GEODETIC POSITION: Lat. = 35°01'43.155; Long. = 84°12'13.584" (S-3)  
 GRID POSITION (North Carolina): X = 442,870.9; Y = 506,166.1 (S-3)  
 ELEVATION: 1749 feet (T-5)

**NC 558** (NCGS, 1935; Cherokee County, North Carolina)

Located at former settlement of Birch, which is about 3.8 miles north of Ranger on road between Ranger and old Shallow Ford Bridge site, about 2-1/2 miles northeast of Letitia by road. Station may be reached from Murphy by going southwest on U. S. Highway 64 to Ranger, thence northwest on U. S. Highway 64 to Letitia, thence northeast to Birch. It is located at bend of road, and across the road from the site of the post office building of Birch, being about midway between center of road and Beech Creek. A standard monument with bronze tablet marked "NC" and stamped "558".

GEODETIC POSITION: Lat. = 35°04'04.708; Long. = 84°07'08.849" (S-3)  
 GRID POSITION (North Carolina): X = 468,915.3; Y = 519,139.7 (S-3)

**NC 655** (NCGS, 1935; Cherokee County, North Carolina)

Located in the vicinity of Grandview post office and on the Murphy-Grandview road, on the property of Vester Kent, 25 feet east of Murphy-Grandview road, 75 feet south of the post office, 41.00 feet S 55° 30' E of Esso gasoline pump, and 63.00 feet S 21° 00' W of 10-inch persimmon. A standard US&GS bronze tablet marked "NC" and set in a precast concrete monument stamped "655". Steel post with control marker sign set 1 foot east of monument.

GEODETIC POSITION: Lat. = 35°09'54.589; Long. = 84°02'38.652" (T-3)  
 GRID POSITION (North Carolina): X = 493,140.4; Y = 553,315.0 (T-3)  
 Grid Azimuth to NC 655 AZ MK (distance 819.0 feet): 356°17'50".  
 GRID POSITION (Tennessee): X = 2,584,608.0; Y = 287,290.5 (T-3)  
 ELEVATION: 1764.891 feet or 537.940 meters (T-2)

**NC 655 AZ MK** (NCGS, 1935; Cherokee County, North Carolina)

Located in the vicinity of Grandview post office and is 20 feet west of Grandview-Murphy road. Station is 900 feet south of the post office, 300 feet S 20° E from the residence occupied by Julia Faira, 155 feet N 52° E of residence occupied by Walter Davis, 116 feet N 44° W of residence occupied by Robert Johnson, 15 feet south of bridge over Hanging Dog Creek, 11.10 feet S 87° 30' E of 20-inch sycamore, and 52.90 feet S 37° 00' E of 3-inch sycamore. A standard US&GS bronze tablet marked "NC" and set in a precast concrete monument and stamped "655".

GEODETIC POSITION: Lat. = 35°09'46.544; Long. = 84°02'37.516" (T-3)  
 GRID POSITION (North Carolina): X = 493,193.3; Y = 552,497.9 (T-3)  
 Grid Azimuth to NC 655 (distance 819.0 feet): 176°17'50".  
 ELEVATION: 1751.945 feet or 533.994 meters (T-2)

**PANTHER KNOB** (TVA, 1940; Cherokee County, North Carolina)

Located at Panther Knob Fire Tower, about 4.1 miles southwest of Murphy. To reach from Murphy square, drive south on U. S. Highway 64 for 10 miles. Turn right on North Carolina Highway 294 and go 0.9 mile. Turn right on Beech Creek road and go 2.4 miles to Y-road intersection. Turn right and go 1.3 miles. Turn right and continue 0.8 mile to gap. Turn left and continue to fire tower. A standard tablet in concrete monument centered under lookout tower.

GEODETIC POSITION: Lat. = 35°03'56.68; Long. = 84°05'57.77" (T-4)  
 GRID POSITION (North Carolina): X = 474,773.9; Y = 518,025.6 (T-4)  
 GRID POSITION (Georgia West): X = 520,134.8; Y = 1,842,849.1 (T-4)  
 GRID POSITION (Tennessee): X = 2,568,781.1; Y = 250,784.6 (T-4)  
 ELEVATION: 2293 feet (T-5)

**R 26** (USGS, 1931; Cherokee County, North Carolina)

Located 6 miles northeast of Unaka, at forks of Cook Creek, 230 feet northeast of cabin, 10 feet west of wagon road. A standard tablet in ledge stamped "R 26 1931". Steel post with control marker sign set approximately 5 feet west of monument.

Reference Mark 1: 14.7 feet East to cross on rock.  
 Reference Mark 2: 13.5 feet West to cross on rock.  
 ELEVATION: 1912.42 feet (G-3)

**S 53** (US&GS, 1933; Cherokee County, North Carolina)

Located 7.7 miles southwest by rail from Murphy, 860 feet west of Ranger Depot, 365 feet east of Milepost No. L 407, 15 feet south of south rail, and 1 foot below base of rail. A standard disk stamped "S 53 1933" set in top of concrete post, projecting 8 inches. Steel post with control marker sign set approximately 1 foot south of monument.

ELEVATION: 1570.351 feet or 478.644 meters (C-2)

**T 1** (USGS, 1933; Cherokee County, North Carolina)

Located 3.4 miles north of Ivylog, 9.6 miles south of Murphy, 400 feet north of road fork, 0.4 mile east of Davidsonville, 0.25 mile southwest of Notia Church,

150 feet north of creek, 35 feet east of dirt road, on property of C. Z. Price, at point of small ridge. A standard tablet on rock outcrop stamped "T 1 1933". Steel post with control marker sign set 1 foot north of monument.

Reference mark is 9.6 feet north of the tablet, on rock, 0.14 foot higher than the tablet.  
 ELEVATION: 1683.894 feet or 513.252 meters (T-2)

**T 2** (USGS, 1933; Cherokee County, North Carolina)

Located 4.4 miles (airline) south of Murphy, 89.8 feet southeast of Martins Creek School, in north corner of concrete filter plant of school. A standard tablet stamped "T 2 1933", painted "1670.05".

Reference mark is 23.8 feet southeast of tablet, in top of northeast corner of filter plant concrete roof; a chiseled square 0.01 foot lower than the tablet.  
 ELEVATION: 1671.230 feet or 509.392 meters (G-2)

**T 3** (USGS, 1933; Cherokee County, North Carolina)

Located 2.5 miles north of Martins Creek Consolidated School, 3.5 miles south of Murphy, 53 feet north and 50 feet west of junction of road fork west, known as "Martins Creek Road", in yard of store building, and 30 feet east of creek. A standard tablet stamped "T 3 1933", rock painted "1604.01" and set in rock outcrop.

Reference Mark 1: 7.9 feet Northwest to cross on 14-inch hickory.  
 Reference Mark 2: 49.1 feet Northeast to cross on rock.  
 ELEVATION: 1605.28 feet (G-3)

**T 4** (USGS, 1933; Cherokee County, North Carolina)

Located 3.4 miles northwest of Murphy, 4.3 miles south of Grandview post office, 400 feet northeast of Bates Creek crossing road, 360 feet southwest of George Levegood's farmhouse, 230 feet west of road, 180 feet south of Bates Creek, near base of hill, in pasture. A standard tablet stamped "T 4 1933", set in rock outcrop, rock painted "1785.66". Steel post with control marker sign set approximately 2 feet south of tablet.

Reference mark is 11 feet northeast of tablet, on rock; a chiseled square, 1.00 foot higher than the tablet.  
 ELEVATION: 1786.91 feet (G-3)

**T 5** (USGS, 1933; Cherokee County, North Carolina)

Located 1.8 miles south of Grandview post office, 5.9 miles north of Murphy, on Murphy-Grandview Road, on north side of Owl Creek, 48 feet northeast of small drain, 33 feet northwest of road. A standard tablet stamped "T 5 1933" set in top of rock outcrop, rock painted "1827.43".

Report on Condition (TVA, 1949 and 1957): Bench mark was found with tablet knocked out. Drill hole was still in concrete. In 1957 bench mark was searched for, but not recovered.

Reference mark is 38.5 feet southwest of tablet, in a rock; a chiseled square 1.69 feet lower than the tablet.  
 ELEVATION: 1828.86 feet (G-3)

**T 6** (USGS, 1933; Cherokee County, North Carolina)

Located 0.6 mile north of Grandview post office, 2.3 miles southeast of Beaverdam Gap, 500 feet south of Davis Creek road fork, on property of John Levingood, 400 feet east of his farmhouse, and 100 feet west of road. A standard tablet stamped "T 6 1933" set in top of large rock outcrop, rock painted "1813.54". Steel post with control marker sign set 12 feet east of tablet.

Reference mark is 75 feet east of tablet, in northwest root of pine stump; a copper nail and washer 7.95 feet higher than the tablet.  
 ELEVATION: 1814.747 feet or 553.136 meters (G-2)

**T 7** (USGS, 1933; Cherokee County, North Carolina)

Located 0.8 mile northwest of Beaverdam Gap, 1.4 miles southeast of Mount Nebo School, on Beaverdam Gap Road, at footpath southwest, in center of abandoned road, 50 feet southwest of main road. A standard tablet stamped "T 7 1933", set in top of boulder, rock painted "1988.32".

Reference mark is 17.7 feet northwest of tablet, in rock; a chiseled square 0.47 foot lower than the tablet.  
 NOTE: Searched for but not recovered, April 1957.

ELEVATION: 1989.63 feet (G-3)

**T 10** (USGS, 1933; Cherokee County, North Carolina)

Located 1.1 miles east of Hopewell Church, 3700 feet southwest of Taylors Ferry road, 0.25 mile east of Harris Chapel, 18 feet north of center of road, about 450 feet west of D. W. Jenkins farmhouse, 0.8 mile west along old U. S. Highway 64 from intersection of old and new U. S. Highway 64 at old Taylors Ferry Road north. A standard tablet stamped "T 10 1933", set in rock outcrop, rock painted "PM 1774.62". Steel post with control marker sign set approximately 4 feet south of tablet.

Reference mark 128 feet S 60° W of tablet; a chiseled square 4.15 feet higher than the tablet.  
 ELEVATION: 1774.70 feet (G-3)

**T 11** (USGS, 1933; Cherokee County, North Carolina)

Located 2.1 miles north of Sunnypoint School, 2.7 miles south of Friendship (Suit post office), on old Taylors Ferry road, 65 feet southwest of Freed Brown's cabin, 80 feet south of road. A standard tablet stamped "T 11 1933", set in large rock outcrop, rock painted "PM 1665.56".

Reference mark is 18.6 feet west of tablet, in a rock; a chiseled square 0.50 foot higher than the tablet.

Report on Condition (TVA, September 1949 and April 1957): Monument found. Tablet had been removed. Imprint and stem of cap found in good condition.  
 ELEVATION: 1665.66 feet (G-3)

**T 13** (USGS, 1933; Cherokee County, North Carolina)

Located 2.6 miles northwest of Friendship (Suit post office), 4.7 miles southeast from Patrick, 0.1 mile southwest of Hwassee Dam School, on east side of North Carolina Highway 294, 130 feet northwest of E. E. Thompson's farmhouse. A standard tablet stamped "T 13 1933", set in top of a large boulder, painted on rock "PM 1672.36". Steel post with control marker sign set approximately 4 feet east of monument.

Reference mark is 55.5 feet S 20° W of tablet, on rock boulder; a chiseled square 3.05 feet higher than the tablet.  
 ELEVATION: 1672.539 feet or 509.791 meters (T-3)

**T 53** (US&GS, 1933; Cherokee County, North Carolina)

Located 5.7 miles southwest by rail, from Murphy, 430 feet east of Milepost No. L 411, 25 feet north of north rail, 20 feet west of old Kinsey Station

site, and 6 inches above top of rail. A standard USC&GS disk stamped "T 53 1933", set in top of concrete post, projecting 6 inches. Steel post with control marker sign set approximately 1 foot north of monument.

GEODETTIC POSITION: Lat. = 35°02'22.021"; Long. = 84°06'02.287" (T-3)

GRID POSITION (North Carolina): X = 473,907.3; Y = 508,488.1 (T-3)

ELEVATION: 1609.173 feet or 490.477 meters (C-2)

TW GAGE HS (TVA, 1955; Cherokee County, North Carolina)

Located at Hvassee Dam, in top of 3.5- by 3.5-foot concrete tail-water well, about 6 feet above floor, about 30 feet west of center of pump turbine unit, about 6 feet beneath deck (not visible from deck), and about 1-1/2 feet north of center of well. A standard control tablet stamped "EL 1306.034" and "TW GAGE HS".

ELEVATION: 1305.43 feet (T-3)

W 53 (USC&GS, 1933; Cherokee County, North Carolina)

Located in Murphy, 275 feet west of west end of Hvassee River Railroad Bridge, between railway and highway, 25 feet south of south rail, 3.5 feet above top of rail. A standard USC&GS disk stamped "W 53 1933" set in top of rock ledge. Steel post with control marker sign set approximately 1 foot west of monument.

ELEVATION: 1541.870 feet or 469.963 meters (C-2)

WW 1 (TVA, 1936; Cherokee County, North Carolina)

Located 0.82 mile east of Murphy Square, 52 feet southwest of center line of U. S. Highway 64, at Murphy Filter, on southeast corner of concrete filter tank. Chiseled triangle, painted "TVA WW 1", painted "USRM 1539.2".

ELEVATION: 1538.960 feet or 469.076 meters (G-2)

X 53 A (TVA, 1962; Cherokee County, North Carolina)

Located in Murphy, about 400 feet south of Louisville & Nashville Depot, on U. S. Highways 19 and 64, in top of left bank, downstream wingwall of new highway bridge, over Hvassee River. A standard TVA tablet stamped "X 53 A 1962" and set in bridge.

ELEVATION: 1533.87 feet (T-3)

Y 53 (USC&GS, 1933; Cherokee County, North Carolina)

Located in Murphy, 30 feet west of east end of Valley River Railroad Bridge No. 13-T-121.8, 4 feet below base of rail, 3.5 feet west of west rail, in center and 1 foot from north end of first pier from east end of bridge. A standard USC&GS disk stamped "Y 53 1933".

ELEVATION: 1532.713 feet or 467.172 meters (C-2)

Z 53 (USC&GS, 1933; Cherokee County, North Carolina)

Located 2.1 miles northeast by rail from Murphy, 200 feet east of Milepost No. 112, 18 feet south of south rail, and 4 feet below base of rail. Station is between railroad and county road, on east edge of access road to church, opposite west end of Pleasant Valley Church, 6.5 feet northeast of telephone pole No. 6. Bench Mark is in southwest rut of private road covered by about 0.2 foot of dirt and gravel, 5.5 feet north of telephone pole 4122, and 65.2 feet southeast of corner of Pleasant Valley Church. A standard USC&GS disk stamped "Z 53 1933" set in top of concrete post, projecting 10 inches. Steel post with control marker sign set approximately 2 feet south of monument.

ELEVATION: 1640.108 feet or 499.906 meters (C-2)