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POSITIONS AND ELEVATIONS OF BENCH MARKS AND HORIZONTAL CONTROL STATIONS

QUAD. NO. 165 - LE CONTE, TENNESSEE - NORTH CAROLINA

Marker Designation	Elevation Datum	Latitude Longitude		Tennessee Lambert Projection			Descr. Page
				X-Coordinate Y-Coordinate	Az. Mk.	Grid Azimuth	
		o	'	o	'	o	
LR-405	3118	(T)		684,174	(T)		5
		(5)		669,396	(4)*		
LR-429	2126	(T)		2,754,510	(T)		5
		(5)		493,480	(4)		
LR-457	2044	(T)		2,774,067	(T)		5
		(5)		496,332	(4)		
LR-458	1684	(T)		2,777,501	(T)		5
		(5)		489,506	(4)		
LRH-6	2014	(T)		720,952	(T)		6
		(5)		668,029	(4)*		
LRH-7	2848	(T)		735,835	(T)		6
		(5)		690,138	(4)*		
LRH-9	3739	(T)		725,217	(T)		6
		(5)		687,166	(4)*		
MS-249	1397	(T)		2,765,942	(T)		6
		(5)		503,334	(4)		
MS-359	2201	(T)		2,766,519	(T)		7
		(5)		495,165	(4)		
N-14-1928	3369.1	(G)	35 31 12.49 (G)				7
	1929	(4)	83 21 22.70 (4)*				
N-15-1928	2198.2	(G)	35 33 18.61 (G)				7
	1929	(4)	83 18 40.63 (4)*				
N-19-1928	3119.9	(G)					7
	1929	(4)					
ROUND TOP NO. 1	4308	(T)	35 41 29.70 (G)	2,758,340.0 (G)			7
		(5)	83 26 45.47 (7)	482,953.2 (7)			
TT-10-D			35 35 51.97 (G)				8
			83 15 55.53 (4)*				
TT-1-T	1647.4	(G)	35 43 51.91 (G)				8
	1929	(4)	83 26 47.53 (7)				

* North Carolina Lambert Projection

* Approximate 1927 North American Datum

Marker Designation	Elevation Datum		Latitude			Tennessee Lambert Projection			Descr. Page	
			Longitude			X-Coordinate	Az.	Grid		Y-Coordinate
			0	'	"	Mk.	0	'	"	
TT-27-T	2227.3	(G)	35	32	02.32	(G)				8
	1929	(4)	83	16	46.87	(4)*				
TT-28-T	2046.515	(C)	35	30	57.86	(G)				8
	1936	(2)	83	18	25.22	(4)*				
TT-22-TN	2058.3	(G)	35	42	16.50	(G)				8
	1929	(4)	83	28	15.51	(4)*				
TT-31-TN			35	42	37.34	(G)				8
			83	27	03.49	(4)*				
USBM-1349.8	1349.8	(G)								9
	1929	(4)								
USBM-1449.2	1449.2	(G)								9
	1929	(4)								
USBM-1469.7	1469.7	(G)								9
	1929	(4)								
USBM-1503	1503.2	(G)								9
	1929	(4)								
USBM-1543	1543.6	(G)								9
	1929	(4)								
USBM-1653.5	1653.6	(G)								9
	1929	(4)								
USBM-1825.3	1825.3	(G)								9
	1929	(4)								
USBM-1980.0	1980.1	(G)								9
	1929	(4)								
USBM-1983.4	1983.4	(G)								10
	1929	(4)								
USBM-2037.2	2037.2	(G)								10
	1929	(4)								
USBM-2051.6	2051.6	(G)								10
	1929	(4)								
USBM-2085.6	2085.6	(G)								10
	1929	(4)								
USBM-2100.4	2100.4	(G)								10
	1929	(4)								

* Approximate 1927 North American Datum

<u>Marker</u> <u>Designation</u>	<u>Elevation</u> <u>Datum</u>	<u>Latitude</u> <u>Longitude</u>	Tennessee Lambert Projection			<u>Descr.</u> <u>Page</u>
			<u>X-Coordinate</u> <u>Y-Coordinate</u>	<u>Az.</u> <u>Mk.</u>	<u>Grid</u> <u>Azimuth</u>	
		<u>o</u> <u>'</u> <u>"</u>		<u>o</u> <u>'</u> <u>"</u>		
USEM-2127.6	2127.6 (G) 1929 (4)					10
USEM-2261.3	2261.2 (G) 1929 (4)					10
USEM-2314.0	2313.8 (G) 1929 (4)					10
USEM-2317.3	2317.2 (G) 1929 (4)					10
USEM-2738.8	2738.6 (G) 1929 (4)					11
USEM-2937.6	2937.2 (G) 1929 (4)					11
USEM-3186.3	3185.7 (G) 1929 (4)					11
USEM-3201.2	3200.6 (G) 1929 (4)					11
USEM-3339.3	3338.7 (G) 1929 (4)					11

DESCRIPTIONS OF BENCH MARKS AND HORIZONTAL CONTROL STATIONS

QUAD. NO. 165 - LE CONTE, TENNESSEE - NORTH CAROLINA

LR-405 - Station is in Swain County, North Carolina, about 7 miles north from Bryson City, in Smoky Mountain National Park area. To reach from Bryson City, drive 6.0 miles north on gravel road up Deep Creek to end of road. Walk up trail 2.0 miles to a gap. Turn left and follow ridge about 1500 feet to station. Station is between two trees blazed with triangles and referenced as below, about 200 feet southwest beyond high point of ridge and 50 feet east of a large burned chestnut snag. Station is a 1 x 1 inch angle iron stamped "TVA-LR-405-1939".

Reference Mark 1.	1.92'	S 65° W	to blazed triangle on 4" pine.
Reference Mark 2.	4.45'	S 60° E	to blazed triangle on 8" oak.

LR-429 - Station is in Sevier County, Tennessee, about 3 miles due east from Gatlinburg. To reach from Gatlinburg, drive east 2.8 miles on Pittman Center Road from junction with State Highway 71 in Gatlinburg to forks of long hollow. Turn right and continue 0.4 mile to house. Walk up trail up hollow due south from house about 2500 feet to forks of hollow. Take left fork and continue 500 feet to top of an east - west ridge. Walk east 1000 feet to station on ridge 150 feet east of second flat gap. Station is 15 feet north of ridge line, and is a 1 x 1 inch angle iron, stamped "TVA-LR-429".

Reference Mark 1.	6.16'	N 40° W	to blazed triangle on 10" maple.
Reference Mark 2.	3.00'	S 5° W	to blazed triangle on 24" oak.
Reference Mark 3.	35.50'	S 73° E	to blazed triangle on 18" oak.

LR-457 - Station is in Sevier County, Tennessee, on top of Copeland Divide about 7-1/2 miles east of Gatlinburg. To reach, drive south 2.4 miles from Pittman Center (or 8.5 miles east from Gatlinburg) to road junction at Emerts Cove. Turn south 2.0 miles to a bridge over branch near its mouth. Walk across Pigeon River and up ridge east to top of main ridge 0.5 mile. Station is on the highest point of knob, just east of ridge intersection, and above several large pines on south slope. Station is a 1 x 1 inch angle iron stamped "TVA-LR-457".

Reference Mark 1.	1.65'	S 40° W	to nail in 4" oak stump.
Reference Mark 2.	7.35'	N 80° E	to nail in 3" locust.
Reference Mark 3.	18.40'	S 15° E	to nail in 3" locust.

LR-458 - Station is in Sevier County, Tennessee, about 7 miles west of Gatlinburg and 4 miles south of Pittman Center. To reach drive south 2.3 miles from Pittman Center (or 8.5 miles west from Gatlinburg) to Emerts Cove. Turn south 3.1 miles to a T-road left at bridge. Walk on road over bridge, past Park Service gate 500 feet to trail to left. Walk along trail about 300 feet to old field, with a pile of stones about 15 feet left of trail. Station is 30 feet west of road and 30 feet west of pile of stones and 6 feet west of a rock with drill hole in top. Station is a 1 x 1 inch angle

iron stamped "TVA-LR-458".

Reference Mark 1.	45.30'	S 10° W	to nail in blazed triangle on 8" locust.
Reference Mark 2.	38.75'	S 80° W	to nail in blazed triangle on 10" walnut.
Reference Mark 3.	33.0'	S 70° E	to top of pile of stones.
Reference Mark 4.	6.34'	East	to drill hole in rock(LR-458A).

LRH-6 - Station is in Swain County, North Carolina, 2 miles northeast of Cherokee Village and 0.25 mile southeast of mouth of Ravens Creek, and is 800 feet south of Ravensford post office on east side of gravel road, 25 feet east of center line, in fenced in meadow and is 400 feet northwest of M. S. McGee's home. Station is a 1 x 1 inch angle iron.

Reference Mark 1.	57.75'	N 3° W	to 12" locust.
Reference Mark 2.	13.13'	N 71° E	to Telephone Pole No. 123.
Reference Mark 3.	20.00'	S 51° W	to 3" dogwood.

LRH-7 - Station is in Swain County, North Carolina, 7.0 miles northeast of Cherokee, North Carolina. To reach from Ravensford post office, drive west 0.2 mile to T-road, turn left 0.05 mile, crossing Oconaluftee River, turn right up main stream for 6.8 miles to road fork, turn left for 1.1 miles crossing creek at road fork, turn left 0.5 mile, crossing creek at home of Roy Blankenship, leave car. Station is 1600 feet north in northwest corner of Jess Lambert's pasture at edge of heavy timber. Station is on center line of ridge 2.0 feet east of fence at base of 40 inch oak. Station is a 1 x 1 inch angle iron, .5 foot above ground set.

Reference Mark 1.	4.7'	N 36° E	to 40" oak.
Reference Mark 2.	17.5'	N 81° E	to 7" locust.
Reference Mark 3.	40.75'	S 21° W	to 14" oak.

(All distances above are from top of angle iron to nail in tree).

LRH-9 - Station is in Swain County, North Carolina, 6.0 miles north and a little east of Cherokee. To reach from highway intersection in Cherokee, drive north on State Highway 107, 5.65 miles, turn right crossing bridge over Oconaluftee River 0.1 mile, turn right keeping main road up toe String Creek, 2.0 miles to home of Posy Maney, leave car, continue up trail to Matherson's house (about 1/4 mile), turn northwest (leaving trail) up cleared field, 2000 feet to small knoll on ridge, turn south 100 feet. Station is just off a knoll 6 feet east of center line of ridge. Station is a 1 x 1 inch angle iron set 0.5 feet above ground.

Reference Mark 1.	14.0'	S 28° E	to 20" chestnut oak.
Reference Mark 2.	28.4'	N 44° W	to 30" chestnut.

MS-249 - Station is in Sevier County, Tennessee. To reach from Gatlinburg, drive east along highway following north edge of Smoky Mountain Park for 7.0 miles to Emerts Cove. Here at point where road crosses Little Pigeon River, park car and walk due west 520 feet past farm house up very steep clear ridge side. Station is in center of decaying 12 inch oak stump, about

60 feet south of south edge of woods on very steep cultivated slope. Station is a 1 x 1 inch angle iron stamped "MS-249".

MS-359 - Station is in Sevier County, Tennessee. To reach from Gatlinburg, drive east along highway which follows north edge of Smoky Mountain Park for 6.4 miles to T-road intersection at Emerts Cove. Turn right at T-road intersection and drive south for 0.9 mile. Park car at T-dirt road west that goes around north end of ridge. Walk along said dirt road around end of ridge, turning south and walk on along road up hollow for 3000 feet to thick briar hollow west. Turn west up hollow and climb for 3000 feet to top of ridge. Walk northeast along ridge 350 feet to end of ridge where it forks; one of Y-ridges run north, other Y-ridge runs east. Station is on ridge at intersection of Y-ridges. Station is a 1 x 1 inch angle iron stamped "MS-359".

Reference Mark 1.	7.19'	N 83° E	to 8" dead chestnut.
Reference Mark 2.	11.43'	S 20° E	to 4" yellow wood.
Reference Mark 3.	17.92'	S 63° W	to 3" oak tree.

N-14-1928 - Station is in Swain County, North Carolina, about 3.5 miles (airline) northwest of Ravensford, 40 feet northwest of upper main forks of Coopers Creek, on northeast side of creek heading northwest, 5 feet east of trail. Station is a standard tablet set in top of huge boulder and is stamped "N-14-1928".

N-15-1928 - Station is in Swain County, North Carolina, 1200 feet northwest of school at Smokemont, 250 feet southeast of road forks at railway crossing, 280 feet southeast of center of bridge over Bradley Fork, 20 feet northeast of road. Station is a standard bronze tablet in top of rock outcrop and stamped "N-15-1928", painted "U.S.P.B.M. 2198.2".

N-19-1928 - Station is in Swain County, North Carolina, 2 miles northeast of Swayney, thence 1.5 miles southwest along railroad to Raven Fork, at summit of hill, 300 feet south of junction in railroad, 5 feet east of rail. Station is a bronze tablet stamped "N-19-1928" in top of outcrop, painted "U.S.P.B.M. 3120.4".

ROUND TOP NO. 1 - Station is in Sevier County, Tennessee. About 3-1/2 miles (airline) southeast of Gatlinburg and 2-3/4 miles nearly north of the summit of Mt. LeConte near the northwest end of ridge between Roaring Fork Creek to the west and the right prong of Little Pigeon River to the east. The ridge begins near the village of Briar and continues nearly west to summit locally known as "Round Top". Summit is crowned by a granite outcrop on which the station is situated. Station can best be reached by road and trail from Gatlinburg up the Roaring Fork to Mr. Sherman Claybough's residence, thence by foot trail to summit about 1 mile. Station is a standard bronze tablet set in top of granite outcrop, about 4 feet south of north

edge of outcrop. The rock stands 7 feet above the ground at its north edge. Instrument was set over station mark. Distance station mark and instrument to signal is 16.7 feet.

TT-10-D - Station is in Swain County, North Carolina, 2.5 miles northwest of Swayney, on logging railroad grade along Raven Fork Creek, 900 feet south of grade, on east side of grade. Station is a standard USGS bronze tablet set in vertical face of rock outcrop and stamped "TT-10-D-1929".

TT-1-T - Station is in Sevier County, Tennessee, 3.80 miles northeast of Gatlinburg, 2.20 miles southwest of Emerts Cove, 27 feet west of junction of Gatlinburg-Greenbrier-Emerts Cove Road, at T. Z. McCarter's General Store, in southwest corner of cultivated field. Station is a standard USGS bronze tablet set in concrete post and stamped "TT-1-T-1928".

TT-27-T - Station is in Swain County, North Carolina, 4.2 miles southwest of Swayney, 3.3 miles northeast of Ravensford, on west side of track opposite swinging footbridge over Raven Fork River. Station is a standard USGS bronze disc set in vertical face of rock outcrop and stamped "TT. STA. No. 27-T-1928".

TT-28-T - Station is in Swain County, North Carolina, 0.75 mile west and north of Ravensford, 15 feet south, thence 15 feet west of T-road east to Ravensford with State Highway 107, about 3.2 miles north of the Cherokee Indian School, about 90 feet west of the southwest wingwall of a concrete bridge, about 40 feet west of the center line of the highway, and in bedrock, about 5 feet higher than the highway. Station is a standard USGS bronze tablet set in top of rock outcrop and stamped "TT-28-T-1928".

TT-22-TN - Station is in Sevier County, Tennessee, at Roaring Fork Schoolhouse, 3 miles east of Gatlinburg, 15 feet north of center of road, 30 feet south and 10 feet west of the southeast corner of schoolhouse. Station is a standard USGS bronze tablet set in a sandstone boulder and stamped "TT. STA. No. 22-TN-1928".

TT-31-TN - Station is in Sevier County, Tennessee, 30 feet north of northeast corner of Dudley Creek Baptist Church, 60 feet west of ford at Little Dudley Creek, about 3.6 miles, airline, southeast of Gatlinburg, 20 feet south of center of road.. Station is a standard USGS bronze tablet set in top of gray back rock and stamped "TT. STA. No. 31-TN-1928".

USBM 1349.8 - Bench Mark is in Sevier County, Tennessee, 1.23 miles southeast of Pittman Center, west side of Copeland Creek, about in line with drain forks east, 120 feet southeast of crossing of Main Creek, 3 feet east of corner of barn, on rock. Bench Mark is a chiseled square, painted on barn "B. M. 1349.8".

USBM 1437.1 - Bench Mark is in Sevier County, Tennessee, 2 miles east of Gatlinburg, 50 feet north of Dudley Creek, south edge of road on boulder. Bench Mark is square cut, painted "B. M. 1437.1". (Destroyed)

USBM 1449.2 - Bench Mark is in Sevier County, Tennessee, 1.05 miles east of Gatlinburg, on Roaring Fork Road, 15 feet west of west corner of fence of Louis Claybough's residence, on top of boulder. Bench Mark is a chiseled square, painted "B. M. 1449.2".

USBM 1469.7 - Bench Mark is in Sevier County, Tennessee, 1.04 miles southeast of Emerts Cove School, west side of road at top of hill. Bench Mark is a chiseled square on ledge under bluff, painted "B. M. 1469.7".

USBM 1503 - Bench Mark is in Sevier County, Tennessee, 2.8 miles east of Gatlinburg, 1 mile west of T. Z. McCarter's Store, north edge of road on ledge. Bench Mark is a drill hole painted, "B. M. 1503".

USBM 1543 - Bench Mark is in Sevier County, Tennessee, 1.4 miles west of Emerts Cove (former Emerts Cove School), 50 feet west of small bridge, south edge of road on boulder. Bench Mark is a drill hole, painted "B. M. 1543".

USBM 1653.5 - Bench Mark is in Sevier County, Tennessee, 2.32 miles southeast of Pittman Center, on south side of Copeland Creek, on top of ledge next to creek, 8 feet southwest of old wooden bridge, 20 feet south of sharp bend in old road (trail), 65 feet east of old chimney. Bench Mark is a chiseled square, painted "B. M. 1653.5".

USBM 1825.3 - Bench Mark is in Sevier County, Tennessee, 2.18 miles east of Gatlinburg, on Roaring Fork, north side of road, on east side of creek, on boulder. Bench Mark is a chiseled square, painted "B. M. 1825.3".

USBM 1980.0 - Bench Mark is in Sevier County, Tennessee, about 2.5 miles, airline, southeast of Gatlinburg, 85 feet north of Little Valley Church, on Baskin Creek, north side of creek, south side of road east and west, west side of old T-road south, on ledge outcrop. Bench Mark is a chiseled square, painted "B. M. 1980.0".

USEM 1983.4 - Bench Mark is in Swain County, North Carolina, 1.93 miles north of Cherokee, 325 feet east of private road fork north, 60 feet southwest of house on north headwall of concrete culvert. Bench Mark is chiseled square painted "U.S.B.M. 1983.4".

USEM 2037.2 - Bench Mark is in Swain County, North Carolina, at Ravensford, 25 feet northeast of Commissary, 20 feet northeast of road, 10 feet southeast of rail, on rock. Bench Mark is a chiseled square, painted "2037.2".

USEM 2051.6 - Bench Mark is in Swain County, North Carolina, 3.16 miles north of Cherokee, 0.6 mile south of road fork to Ravensford, on southwest side of road, on boulder projecting out of bank. Bench Mark is chiseled square, painted "U.S.B.M. 2051.6".

USEM 2085.6 - Bench Mark is in Swain County, North Carolina, 2.3 miles south of Smokemont, 0.9 mile south of railroad crossing, 50 feet south of drain, on west side of road, on rock ledge. Bench Mark is a chiseled square, and painted "U.S.B.M. 2085.6".

USEM 2100.4 - Bench Mark is in Swain County, North Carolina, 1 mile north of Ravensford, 10 feet south of track, at a point 7 feet west of west end of railroad bridge over Oconaluftee River, on large boulder. Bench Mark is a chiseled square, painted "U.S.B.M. 2100.4".

USEM 2127.6 - Bench Mark is in Swain County, North Carolina, 1.3 miles south of Smokemont, 20 feet northwest of road fork, on north side of east abutment of bridge over Oconaluftee River. Bench Mark is a chiseled square, painted "U.S.B.M. 2127.6".

USEM 2261.3 - Bench Mark is in Swain County, North Carolina, 4.1 miles northeast of Ravensford. 110 feet north of railroad bridge over small creek, 25 feet southeast of southeast rail, on rock ledge. Bench Mark is a chiseled square, painted "U.S.B.M. 2261.3".

USEM 2314.0 - Bench Mark is in Swain County, North Carolina, 2 miles west of Ravensford, 20 feet south of foot log to Grady Mathews residence, south edge of road, in boulder. Bench Mark is a chiseled square, painted "U.S. B.M. 2314.0".

USEM 2317.3 - Bench Mark is in Swain County, North Carolina, 2 miles southwest of Swayney, 20 feet southeast of track at a point 20 feet northeast of northeast end of switch, in north root of lone 36 inch apple tree. Bench Mark is a nail, painted "U.S.B.M. 2317.3".

USBM 2738.8 - Bench Mark is in Swain County, North Carolina, 3 miles west of Ravensford, 60 feet west of Mingus Creek School, south edge of road on boulder. Bench Mark is a chiseled square, painted "U.S.B.M. 2738.8".

USBM 2937.6 - Bench Mark is in Swain County, North Carolina, about 3.5 miles (airline) west and slightly south of Ravensford, 5 miles north of highway, on Cooper Creek, 40 feet northeast of northeast corner of W. R. Springer's residence, on south side of road, on boulder. Bench Mark is a chiseled square, painted "U.S.B.M. 2937.6".

USBM 3186.3 - Bench Mark is in Swain County, North Carolina, near Cooper Creek, 5.8 miles north of highway, 0.4 mile south of forks of creek, 10 feet east of trail, 30 feet east of stream, in root of 8 inch maple tree. Bench Mark is a copper nail and washer, painted "U.S.B.M. 3186.3".

USBM 3201.2 - Bench Mark is in Swain County, North Carolina, at Swayney, 0.8 mile northwest of junction of new railroad at top of hill, about 450 feet west of old camp, north side of railroad at bend. Bench Mark is a chiseled square on rock outcrop, painted "U.S.B.M. 3201.2".

USBM 3339.3 - Bench Mark is in Swain County, North Carolina, 2.3 miles northwest of mouth of Bunches Creek, 525 feet north of end of railroad, east side of grade, on rock ledge. Bench Mark is a chiseled square, painted "U.S.B.M. 3339.3".