

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

KINGS MOUNTAIN QUADRANGLE
149 S.C.-83 N.C.
N3500-W8115/15
DIAGRAM NO 17-2
CHARLOTTE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Cleveland and Gaston Counties, N.C.
Cherokee and York Counties, S.C.

Final adjustment of 1971

Edition of 6-19-73

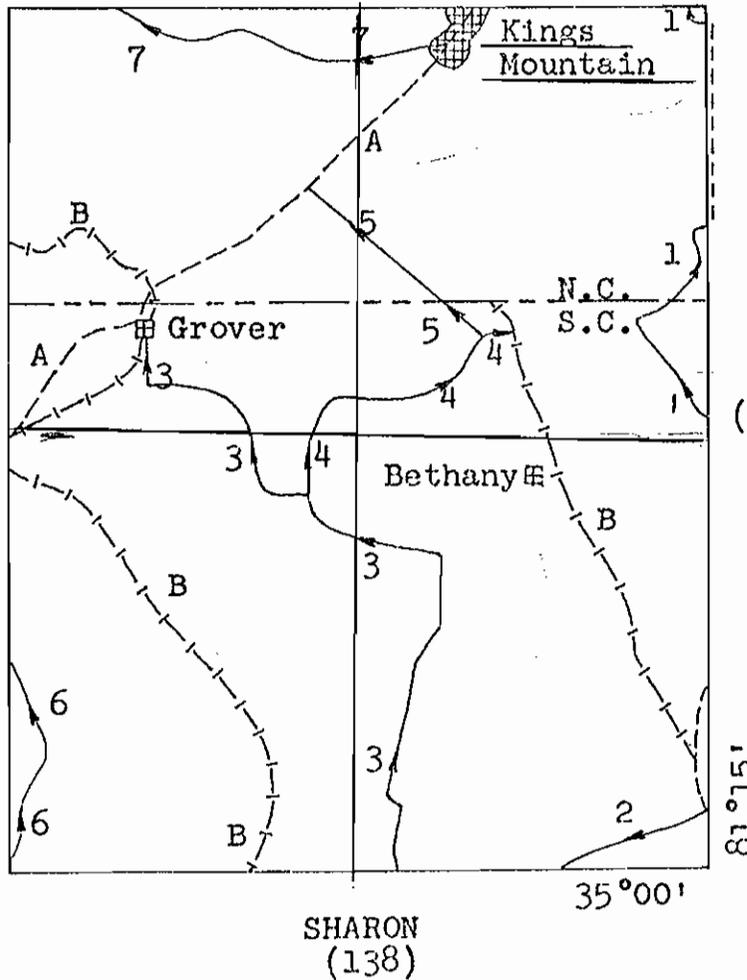
PR: WSM/jyk

Elevations
NGVD 29

LINCOLNTON
(119)

GAFFNEY
(150 S.C.-83 N.C.)

CLOVER
(148 S.C.-81 N.C.)



NGS (USC&GS) VERTICAL CONTROL DATA

- A. Quadrangle 350812
 - B. South Carolina Geodetic Survey - See Data at end of our data set.
- (7 sheets from SCGS)

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NGVD 29
Elevations

1906

ISOLATED BENCH MARKS ESTABLISHED PRIOR TO 1910
(By L. L. Lee, 1906; Book A 6416)Feet

York, 3.5 mi N. of; at T-junction of second-class rd. W.; on E. side of hwy.; 60 ft NW. of NW. corner of lot of Mrs. Neil; on iron post; standard cap stamped "771"	NGVD 29 Elevations	769.919
York, 6.5 mi N. of; at T-junction of rd. W. to Piedmont Springs and Kings Creek; in NW. angle of forks; on iron post; standard cap stamped "781"		780.747
Bethany, 0.9 mi S. of; 0.2 mi N. of T-junction of rd. W.; on E. side of hwy.; in W. side of outside chimney at S. end of house of R. N. Plaxico; standard tablet stamped "798"		797.362
Bethany, 2.9 mi N. of; at McGill's store; at junction of rd. NW. to Shelby; in NW. angle of forks; on iron post; standard cap stamped "865"		864.624
Stepps Gap; about 5 mi N. of McGill's store at Bethany; 4.8 mi S. of Mountain View Hotel in Kings Mountain; 15 ft E. of county line rd.; in rock outcrop; standard tablet stamped "1040"		1039.731
Kings Mountain, 2.1 mi S. of, on county line rd.; at junction of rd. SE. to Clover; on iron post; standard cap stamped "953"		952.500
✓ Kings Mountain; about 0.4 mi SW. of station, along Southern Railway; in front of Mountain View Hotel; 15 ft S. of office entrance; 3 ft N. of porch; 1 ft from building; in sidewalk; on iron post; standard cap stamped "PRIM TRAV STA NO 4 1906 979" (Tied by USC&GS, 1932)		978.016
✓ Kings Mountain, 3.4 mi SW. of, along Southern Ry.; 4.2 mi NE. of Grover; 0.2 mi SW. of second-class rd. crossing; in top of SE. corner of rock culvert under track; standard tablet stamped "960" (Reported not found, 1935)		959.276
Blacksburg, 2.0 mi NE. of; in NW. corner of rock culvert at point of reverse curve; standard tablet stamped "818"		816.829
Blacksburg, 3.4 mi SE. of; 0.2 mi N. of overhead hwy. bridge; 100 ft SE. of crossing of rd.; 40 ft E. of track; in top of solid rock; standard tablet stamped "761"		760.430

1906

ISOLATED BENCH MARKS (Cont'd.)Feet

Smyrna; in S. face of SW. pillar of house of W. W. Castle; standard tablet stamped "751"

750.420

Patterson Springs, 2.5 mi E. of; about 0.6 mi S. of Pleasant Hill Church; at former Durbro Post Office; at S. end of residence of D. C. Putnam; in base of outside stone chimney; standard tablet stamped "765"

763.992

LINE 1.

R. L. Beitle, 1945; Book V 180 a

✓ Clover, 4.6 mi along hwy. and rd. NW. of; 4.9 mi SW. of Chapel Grove School; about 800 ft NW. of intersection of N.C.-S.C. State line and NW.-SE. rd.; 34 ft S. and 49 ft W. of rd. forks; in concrete post; standard tablet stamped "2 RLB 1945 819"

819.137

Reference mark; 470 ft NE. of tablet; 75 ft NW. of center of rd.; in root on SW. side of 12-in. pine tree; copper nail and washer

795.31)

✓ Pisgah Church, 1.1 mi NW. of; 4.6 mi SW. of Gastonia; 9 ft S. and 15 ft W. of junction of N.-S. rd. and rd. E.; 4.5 ft W. of rd. sign; in concrete post; standard tablet stamped "6 RLB 1945 771"

771.280

Reference mark; 245 ft E. of tablet; 25 ft N. of center of rd.; in root on NE. side of 10-in. pine tree; copper nail and washer

780.18

LINE 2.

H. L. Zohn, 1971; Book AV 1602 a

2 23 1.35 U.E., in junction of County Roads 174 and 75; copper nail and washer, painted "CL 786.5"

786.52

2 24 1.82 York, 1.5 mi NW. of courthouse, along State Highway 5; 180 ft E. of, and about 5 ft higher than junction of Highway 5 and County Road 75; 0.5 ft N. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "26 HLZ 1971 777", painted "BM 777.5"

777.45)

5.
KINGS MOUNTAIN
Book AV 1602 a

S.C.-N.C.

H. L. Zohn, Jr.

1971

LINE 2 (Cont'd.)

Feet

2	25	2.07	U.E., in centerline of County Road 75 at dirt rd. SW.; copper nail and washer, painted "CL 762.4"	762.35
2	26	2.77	U.E., in junction of County Roads 75 and 711; copper nail and washer, painted "CL 649.9"	649.93
2	27	3.10	York, 1.2 mi SSW. of junction of State Highway 5 and County Road 75, along County Road 75; at 30-ft concrete bridge over Turkey Creek; 13 ft SE. of centerline of Road 75; in SW. end of SE. guardrail; standard tablet stamped "27 HLZ 1971 624", painted "BM 624.0"	623.967

WL = 613 ft

LINE 3.

H. L. Zohn, 1971; Book AV 1602 a

3	5	1.62	Sharon, 4.3 mi NW. and N. of town green water tower, along County Road 40; 53 ft SW. of, and about 2 ft lower than centerline of County Road 40 at drive E.; 3 ft E. of power pole; 1 ft E. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "38 HLZ 1971 608", painted "BM 608.0"	608.004
3	6	2.47	U.E., in centerline of County Road 40 at drive SW.; copper nail and washer, painted "CL 623.9"	623.86
3	7	3.19	Sharon, 5.9 mi NW. and N. of town green water tower, along County Road 40; 43 ft WSW. of, and about 1.5 ft higher than centerline of County Road 40 at drive W. to J. D. Wilson residence; 5 ft SW. of underground cable marker P-62; 1 ft E. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "39 HLZ 1971 664", painted "BM 663.8"	663.735

NGVD 29
Elevations

1971

LINE 3 (Cont'd.)Feet

3	8	4.34	Sharon, 7.0 mi NW. and N. of town green water tower, along County Road 40; in "V" formed by Road 40 and dirt rd. SE.; 24 ft SW. of, and about 4 ft higher than dirt rd. opposite; 44 ft E. of, and about 2 ft higher than Road 40 opposite; 0.5 ft N. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "40 HLZ 1971 698", painted "BM 697.7"	697.648
3	9	4.86	U.E., in junction of County Roads 40 and 780; copper nail and washer, painted "CL 745.7"	745.69
3	10	5.53	Sharon, 8.2 mi NW. and N. of town green water tower, along County Road 40; 40 ft S. and 125 ft W. of, and about level with junction of State Highway 5 and County Road 40; 0.5 ft N. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "41 HLZ 1971 784", painted "BM 784.4"	784.414
3	11	6.40	U.E., in centerline of County Road 40 at dirt rd. WNW.; copper nail and washer, painted "CL 796.7"	796.68
3	12	6.70	U.E., in centerline of County Road 40 at dirt rd. E.; copper nail and washer, painted "CL 792.8"	792.82
3	13	7.20	Sharon, 9.9 mi NW. and N. of town green water tower, along County Road 40; 52 ft S. and 32 ft E. of, and about 2 ft lower than junction of Roads 40 and 885; 0.5 ft W. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "42 HLZ 1971 790", painted "BM 789.8"	789.806
3	14	7.90	U.E., in junction of State Highway 55 and County Road 40; copper nail and washer, painted "CL 819.0"	819.02
3	15	8.39	U.E., in centerline of State Highway 55 at dirt rd. N.; copper nail and washer, painted "CL 785.5"	785.45

1971

LINE 3 (Cont'd.)

Feet

3	16	8.86	Bethany, 4.0 mi SW. of junction of State Highways 55 and 161, along Highway 55; 63 ft W. of, and about 3 ft higher than junction of Highway 55 and dirt rd. NW.; 0.7 ft SE. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "43 HLZ 1971 784", painted "BM 783.9"	783.915
3	18	9.76	U.E., in centerline of 65-ft wooden bridge over small stream; copper nail and washer, painted "CL 589.0"	589.00
3	19	10.37	Bethany, 4.0 mi SW. of junction of State Highways 161 and 55, along Highway 55, thence 1.5 mi W. and NW. along dirt rd.; 89 ft SSW. of, and about 2.5 ft lower than centerline of dirt rd.; in front of a red house with 48-in. oak tree in front yard; 0.5 ft N. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "44 HLZ 1971 684", painted "BM 684.4"	684.438
3	20	10.99	U.E., in centerline of county road (paved) at dirt rd. E.; copper nail and washer, painted "CL 742.3"	742.30
3	21	11.89	Kings Mountain National Park Visitors' Center. 0.25 mi SE. of, along paved rd., thence 1.9 mi S. along dirt rd.; 58 ft WSW. of, and about 1 ft higher than T-rd. junction; 4 ft N. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "45 HLZ 1971 813", painted "BM 812.8"	812.829
3	22	12.57	U.E., in centerline of County Road 141 at dirt rd. N.; copper nail and washer, painted "CL 797.6"	797.62
3	23	13.20	Kings Mountain National Park Visitors Center, 0.25 mi SE. of, along paved rd., thence 1.9 mi S. along dirt rd., thence 0.7 mi SW. along dirt rd., thence 0.65 mi NW. along dirt rd.; at 30-ft bridge over small creek; in SW. end of SE. backwall; standard tablet stamped "46 HLZ 1971 637", painted "BM 637.2"	637.218

NGVD 29
Elevations

1971

LINE 3 (Cont'd.)Feet

3	25	14.31	Kings Mountain National Park Visitors Center, 0.25 mi SE. of, along paved rd., thence 1.9 mi S. along dirt rd., thence 0.7 mi SW. along dirt rd., thence 1.75 mi NW. along dirt rd.; 29 ft E. of, and about 3.5 ft higher than Y-rd. junction; near the boundary of Kings Mountain National Park; 5 ft ESE. of witness sign; in concrete post projecting 0.1 ft.; standard tablet stamped "47 HLZ 1971 806", painted "BM 806.0"	806.066
3	26	15.13	U.E., in centerline of County Road 123 at dirt rd. SW.; copper nail and washer, painted "CL 762.0"	762.08
3	27	15.50	Grover, 0.8 mi S. of junction of I-85 and U. S. Highway 29, along Highway 29, thence 0.7 mi S. along County Road 67, thence 0.45 mi NE. along County Road 21, thence 1.1 mi SE. along County Road 123; at 50-ft bridge over Kings Creek; on NE. end of SE. backwall; standard tablet stamped "48 HLZ 1971 645", painted "BM 645.0"	645.001
WL = 633 ft				
3	28	16.12	U.E., in centerline of County Road 123 at drain crossing, copper nail and washer, painted "CL 678.7"	678.75
3	29	16.64	U.E., in junction of County Roads 21 and 123; copper nail and washer, painted "CL 715.0"	715.07
3	30	17.09	Grover, 0.8 mi S. of junction of I-85 and U. S. Highway 29, along U. S. Highway 29, thence 0.7 mi S. along County Road 67; 58 ft N. and 30 ft E. of, and about 1 ft higher than junction of County Roads 21 and 66; 0.5 ft S. of witness sign; in concrete post projecting 0.1 ft.; standard tablet stamped "49 HLZ 1971 780", painted "BM 780.2"	780.283

1971

LINE 3 (Cont'd.)

Feet

3	31	17.78	U.E., in junction of U. S. Highway 29 and County Road 67; copper nail and washer, painted "CL 810.2"	810.25
3	32	18.32	U.E., in junction of U. S. Highway 29 and County Road 409 E.; copper nail and washer, painted "CL 835.9"	835.91
3	33	19.01	"F 40 1932" (USC&GS)	877.816

LINE 4.

H. L. Zohn, 1971; Book AV 1602 a

3	38	0.00	"45 HLZ 1971 813" (Described in line 3)	812.829
3	38	0.83	Kings Mountain National Park, 0.25 mi. SE. of Visitors Center, along paved rd., thence 1.05 mi. S. along dirt rd.; on right-of-way of single pole powerline; 24 ft E. of, and about 1.5 ft higher than centerline of rd. opposite; 2 ft W. of witness sign; in concrete post projecting 0.5 ft.; National Park Service standard disk not stamped, painted "BM 849.7"	849.670
3	40	1.89	Kings Mountain National Park, 0.25 mi SE. of Visitors Center, along paved rd. through park; 57 ft WSW. of, and level with rd. (through Kings Mountain National Park) and dirt rd. S.; 0.5 ft NE. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "50 HLZ 1971 925", painted "BM 925.2"	925.191
3	41	2.50	U.E., in centerline of rd. (through Kings Mountain National Park) at fire rd. N.; copper nail and washer, painted "CL 836.7"	836.71
3	42	3.40	Kings Mountain National Park, 1.7 mi E. of Visitors Center, along paved rd. through park; at boundary between National and State Kings Mountain Parks; on right-of-way of single pole powerline; 63 ft SW. of, and about 1.5 ft higher than centerline of rd. opposite; in concrete post projecting 0.2 ft.; National Park Service standard disk not stamped, painted "BM 765.1"	765.168

NGVD 29
Elevations

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1971

LINE 4 (Cont'd.)Feet

3	43	3.79	U.E., at bridge over Long Branch; on E. end of S. retaining wall; chiseled square, painted "UE 685.4"	685.41
			WL = 670 ft	
3	44	4.52	U.E., in centerline of rd. (through Kings Mountain State Park) at drain crossing, copper nail and washer, painted "CL 707.8"	707.82
3	45	5.12	Kings Mountain State Park, 0.2 mi SW. of park superintendents house, along paved rd. through park; in "V" formed by paved rds.; 43 ft SE. of thru rd.; 43 ft W. of side rd. to camps; 0.5 ft N. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "51 HLZ 1971 827", painted "BM 827.0"	827.025
3	46	5.90	U.E., in centerline of rd. (through Kings Mountain State Park) at dirt rd. W.; copper nail and washer, painted "CL 847.7"	847.73
3	47	6.16	Bethany, 3.1 mi NNW. of junction of State Highways 55 and 161, along Highway 161; 83 ft N. and 60 ft W. of, and about 1 ft higher than junction of Highway 161 and County Road 705; 0.5 ft E. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "52 HLZ 1971 869", painted "BM 869.4"	869.458
3	48	7.14	U.E., in junction of State Highway 161 and County Road 234 NE.; copper nail and washer, painted "CL 847.4"	847.38
3	49	7.20	Bethany, 2.05 mi NNW. of junction of State Highways 55 and 161, along Highway 161; 7 ft N. of fence corner; 26.5 ft W. of, and about 0.5 ft lower than centerline of Highway 161 at dirt rd. SW.; in concrete post 0.3 ft below ground; USC&GS and State Survey standard disk stamped "Y 181 1935"	848.25()

1971

LINE 4 (Cont'd.)

Feet

3 50 7.43 Bethany, 1.8 mi NNW. of junction of State Highways 55 and 161, along Highway 161; in front of Carson's Place (tavern); 24 ft NE. of, and about level with centerline of highway opposite; in concrete post projecting 0.4 ft.; USC&GS and State Survey standard disk stamped "Y 180 1935" 854.057

LINE 5.

H. L. Zohn, 1971; Book AV 1602 a

3 59 0.00 "Y 181 1935" (Described in line 4) 848.250

3 61 1.77 U.E., in centerline of 30-ft wooden bridge over small stream; copper nail and washer, painted "CL 744.4" 744.28

WL = 739 ft

3 62 2.50 ✓ Grover, 4.0 mi NE. of junction of U. S. Highway 29 and I-85, along I-85, thence 3.3 mi SE. along County Road 2245; at the N.C.-S.C. state line; 30 ft SW. of, and about level with centerline of county road opposite; 0.5 ft NE. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "53 HLZ 1971 877", painted "BM 877.4" 877.270

NGVD 29
Elevations

3 63 3.05 U.E., in centerline of County Road 2245 at gas pipeline crossing; copper nail and washer, painted "CL 929.7" 929.61

3 64 3.45 Grover, 4.0 mi NE. of junction of U. S. Highway 29 and I-85, along I-85, thence 2.3 mi SE. along County Road 2245; 1.2 mi NW. of N.C.-S.C. state line; about 125 ft S. of crest of hill; at Y-rd. junction; 38 ft E. of, and about 5 ft higher than centerline of Road 2245 opposite; in rock outcrop; standard tablet stamped "54 HLZ 1971 991", painted "BM 991.3" 991.208

1971

LINE 5 (Cont'd.)Feet

3	65	4.05	U.E., in centerline of County Road 2245 at drive SW. to residence of E. Hardin; copper nail and washer, "CL 815.4"	815.30
3	66	4.36	U.E., in centerline of 80-ft wooden bridge over Kings Creek; copper nail and washer, painted "CL 726.7"	726.60
WL = 717 ft				
3	67	4.88	Grover, 4.0 mi. NE. of junction of U. S. Highway 29 and I-85, along I-85, thence 0.8 mi. SE. along County Road 2245; 93 ft S. of front door to Dixon Presbyterian Church; 27 ft NW. of, and about 1 ft lower than County Road 2283; 0.5 ft SE. of witness sign; in concrete post projecting 0.1 ft.; standard tablet stamped "55 HLZ 1971 856", painted "BM 855.6"	855.515
3	68	5.14	U.E., in centerline of 50-ft wooden bridge over Dixon Branch; copper nail and washer, painted "CL 788.4"	788.27
WL = 778 ft				
3	69	5.68	U.E., at bridge for County Road 2245 over Interstate 85; on SE. end of NE. guardrail base; chiseled square, painted "UE 957.0"	956.90
3	70	6.16	"RV-61" (S. Ry.) (USC&GS)	970.963
3	71	6.98	"RV-60" (S. Ry.) (USC&GS)	943.775
3	72	7.01	"G 40 1932" (USC&GS)	938.879

1971

LINE 6.Feet

H. L. Zohn, 1971; Book AV 1602 a

4	17	4.67	U.E., in junction of County Roads 610 and 17; copper nail and washer, painted "CL 637.3"	637.32
4	18	5.30	Wilkinsville, 2.4 mi E. and NE. from junction of State Highway 105 and County Road 17, along Road 17, thence 2.4 mi N. along Road 17; 30 ft N. and 33 ft W. of, and about 1 ft higher than centerline of Road 17 at drive SE. to residence of T. C. Castetter; 0.5 ft E. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "61 HLZ 1971 582", painted "BM 582.3"	582.288
4	19	6.05	U.E., in centerline of County Road 17 at drive S. to residence of Joe Mullinax; copper nail and washer, painted "CL 640.1"	640.10
1	20	6.54	U.E., in centerline of County Road 13 at dirt rd. N. leading downhill; copper nail and washer, painted "CL 604.2"	604.26
1	21	7.06	Blacksburg, 6.7 mi SE. of junction of U. S. Highway 29 and County Road 43, along Road 43; at 99 Islands power station; in NE. end of dam; 17 ft SW. of NE. end; standard tablet stamped "60 HLZ 1971 530", painted "BM 529.6"	529.652
1	22	7.79	U.E., in centerline of County Road 43 at dirt drive E.; copper nail and washer; painted "CL 572.7"	572.70
1	23	8.30	Blacksburg, 5.4 mi SE. and S. of junction of U. S. Highway 29 and County Road 43, along Road 43; 10 ft NE. of power pole; 105 ft E. of red brick church; 48 ft N. of, and about 0.5 ft lower than centerline of Road 43 at drive SE.; 0.5 ft SW. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "59 HLZ 1971 579", painted "BM 579.2"	579.170

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1971

LINE 7.Feet

H. L. Zohn, 1971; Book AV 1602 a

4	41	0.00	"K 40 1932" (USC&GS)	1003.350
4	41	0.55	U.E., in junction of W. King Street and N. Watterson Street; at Kings Mountain; copper nail and washer, painted "CL 935.9"	935.91
4	42	1.13	✓ Kings Mountain, 1.0 mi W. of junction of State Highway 216, along U. S. Highway 74; across street (N.) from National Guard Armory; in "V" formed by Highway 74 and W. Mountain Street; 70 ft S. of centerline of Highway 74; 0.5 ft N. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "63 HLZ 1971 920", painted "BM 919.8"	919.845
4	43	2.08	U.E., in centerline of U. S. Highway 74 (W. bound lanes) at dirt rd. N.; copper nail and washer, painted "CL 888.6"	888.57 ()
4	44	2.66	Kings Mountain, 2.5 mi W. of junction of State Highway 216, along U. S. Highway 74; 47 ft N. and 250 ft W. of, and about 3 ft lower than junction of Highway 74 (W. bound lanes) and County Road 2131; 0.5 ft S. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "64 HLZ 1971 900", painted "BM 899.8"	899.803
<i>TOP OF MON. BROKEN OF</i>				
4	45	3.41	U.E., in junction of U. S. Highway 74 (W. bound lanes) and County Road 2036; copper nail and washer, painted "CL 850.5"	850.55
4	46	3.99	Kings Mountain, 4.1 mi W. and NW. of junction of State Highway 216, along U. S. Highway 74; about 210 ft E. of NE. corner of Bethware School; 69 ft S. and 39 ft E. of, and about 3 ft lower than junction of Highway 74 (E. bound lanes) and County Road 2248; 2 ft N. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "65 HLZ 1971 870", painted "BM 869.6"	869.561 ()

LINE 7 (Cont'd.)

1971

Feet

4	47	4.60	U.E., in center of paved break in median strip (U. S. Highway 72); copper nail and washer, painted "CL 876.9"	876.86
4	48	5.19	Shelby, 4.0 mi E. and SE. of junction of State Highway 180, along U. S. Highway 74; 50 ft N. and 144 ft W. of, and about 1 ft lower than junction of Highway 74 (W. bound lanes) and County Road 2319; 0.5 ft S. of witness sign; in concrete post projecting 0.2 ft.; standard tablet stamped "66 HLZ 1971 848", painted "BM 848.5"	848.456
4	49	5.78	U.E., in center of paved break in median strip (U. S. Highway 74) near junction of County Road 2245; copper nail and washer, painted "CL 782.6"	782.60

NGVD 29
Elevations

MAR 10 '94 16:05

USGS 82 1

NAD 27
IN FEET

3901

PLOT AS
3rd ORDER

BM'S

35-15
81-45

8

ONTO CO. MYLARS

35-10
81-20

of 24-inch pipe culvert. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 6 inches above ground. Elevation: 825.185 feet.

Plane coordinates: (N), $x = 1,840,558.98$ feet; $y = 798,236.06$ feet.

NC 174 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 0.15 mile north of Southern Railway station in Earl, 3.1 miles northeast of South Carolina-North Carolina State line, 20 feet east of centerline of dirt street, between street and railway, across street from white house with 14 trees in yard, 124 feet east of northeast corner of the O.F.Austell residence, 123 feet northeast of northeast corner of post office, 45 feet west of bottle cap in pole 150 on east side of railway, and 28 feet west of west rail. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 847.085 feet.

Plane coordinates: (N), $x = 1,840,333.16$ feet; $y = 799,869.28$ feet.

NC 175 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 0.5 mile north of Southern Railway in Earl, 3.8 miles northeast of North Carolina-South Carolina State line, along State Highway 18 (S.C.) and State Highway 18 (N.C.), 0.1 mile south of county road to Grover, 0.05 mile north of New Hope Baptist Church across road from pole 161, between road and Southern Railway, 211 feet south of "Yard Limit" sign on west side of railway, 107.5 feet southeast of northeast corner of north pillar of porch of the Austell Bettis residence, 91 feet southeast of southeast corner of south pillar of porch, 27 feet west of centerline of dirt road, and 7.7 feet east of east rail. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 2 inches above ground. Elevation: 854.444 feet.

Plane coordinates: (N), $x = 1,840,873.93$ feet; $y = 801,651.24$ feet.

NC 176 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.25 miles northeast of Southern Railway station in Earl, about 4.4 miles northeast of South Carolina-North Carolina State line, 0.65 mile east of old highway (Earl-Shelby), along State Highway 18 (S.C.) and State Highway 18 (N.C.), on top of 5-foot bank at sharp curve at top of knoll, and 16 feet north of centerline of dirt road. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 788.294 feet.

Plane coordinates: (N), $x = 1,844,154.47$ feet; $y = 801,269.78$ feet.

NC 177 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.55 miles northeast of Southern Railway station in Earl, 4.7 miles northeast of South Carolina-North Carolina State line, along State Highway 18 (S.C.) and State Highway 18 (N.C.), 0.95 mile east of railway track and old highway Earl-Shelby, 15.5 feet south of centerline of road, 255 feet southwest of northwest corner of the R.M.Lavender residence, 224 feet southwest of southwest corner of residence, 29 feet southwest of small road

and railway, across street from white house with 14 trees in yard, 124 feet east of northeast corner of the O.F. Austall residence, 123 feet northeast of northeast corner of post office, 45 feet west of bottle cap in pole 150 on east side of railway, and 28 feet west of west rail. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 847.085 feet.

Plane coordinates: (N), \underline{x} = 1,840,333.16 feet; \underline{y} = 799,869.28 feet.

NC 175 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 0.5 mile north of Southern Railway in Earl, 3.8 miles northeast of North Carolina-South Carolina State line, along State Highway 18 (S.C.) and State Highway 18 (N.C.), 0.1 mile south of county road to Grover, 0.05 mile north of New Hope Baptist Church across road from pole 161, between road and Southern Railway, 211 feet south of "Yard Limit" sign on west side of railway, 107.5 feet southeast of northeast corner of north pillar of porch of the Austall Bettis residence, 91 feet southeast of southeast corner of south pillar of porch, 27 feet west of centerline of dirt road, and 7.7 feet east of east rail. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 2 inches above ground. Elevation: 854.444 feet.

Plane coordinates: (N), \underline{x} = 1,840,873.93 feet; \underline{y} = 801,651.24 feet.

NC 176 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.25 miles northeast of Southern Railway station in Earl, about 4.4 miles northeast of South Carolina-North Carolina State line, 0.65 mile east of old highway (Earl-Shelby), along State Highway 18 (S.C.) and State Highway 18 (N.C.), on top of 5-foot bank at sharp curve at top of knoll, and 16 feet north of centerline of dirt road. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 788.294 feet.

Plane coordinates: (N), \underline{x} = 1,844,154.47 feet; \underline{y} = 801,289.78 feet.

NC 177 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.55 miles northeast of Southern Railway station in Earl, 4.7 miles northeast of South Carolina-North Carolina State line, along State Highway 18 (S.C.) and State Highway 18 (N.C.), 0.95 mile east of railway track and old highway Earl-Shelby, 15.5 feet south of centerline of road, 266 feet southwest of northwest corner of the R.M.Lavender residence, 224 feet southwest of southwest corner of residence, 79 feet southwest of small pecan tree, and 73 feet east of intersection of drive to house on top of knoll. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 763.354 feet.

Plane coordinates: (N), \underline{x} = 1,845,430.42 feet; \underline{y} = 300,508.24 feet.

NC 178 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.76 miles northeast of Southern Railway station in Earl, 4.9 miles northeast of South Carolina-North Carolina State line, 1.15 miles east of old highway (Earl-Shelby), along State Highway 18 (S.C.) and State Highway 18 (N.C.), on top of 4-foot bank, and 18 feet north of centerline of dirt road. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 4 inches above ground. Elevation: 739.610 feet.

Plane coordinates: (N), \underline{x} = 1,846,239.66 feet; \underline{y} = 800,077.23 feet.

NC 179 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 2.0 miles northeast of Southern Railway station in Earl, 1.4 miles east of junction of Earl-Shelby and Earl-Grover

corner of the R.M.Lavender residence, 224 feet southwest of southwest corner of residence, 79 feet southwest of small pecan tree, and 73 feet east of intersection of drive to house on top of knoll. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 5 inches above ground. Elevation: 763.354 feet.

Plane coordinates: (N), \underline{x} = 1,845,430.42 feet; \underline{y} = 300,508.24 feet.

NC 178 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.75 miles northeast of Southern Railway station in Earl, 4.9 miles northeast of South Carolina-North Carolina State line, 1.15 miles east of old highway (Earl-Shelby), along State Highway 18 (S.C.) and State Highway 18 (N.C.), on top of 4-foot bank, and 18 feet north of centerline of dirt road. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 4 inches above ground. Elevation: 739.810 feet.

Plane coordinates: (N), \underline{x} = 1,848,239.86 feet; \underline{y} = 800,077.23 feet.

NC 179 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 2.0 miles northeast of Southern Railway station in Earl, 1.4 miles east of junction of Earl-Shelby and Earl-Grover roads, 0.6 mile west of center of Buffalo Creek bridge, 13 feet north of centerline of county road (Earl-Grover), on top of 2-foot banks, and in edge of cultivated field. Station is a U.S.C. & G.S. and State Survey standard disk in concrete. Elevation: 701.213 feet.

Plane coordinates: (N), \underline{x} = 1,848,982.82 feet; \underline{y} = 799,142.30 feet.

NC 180 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1934).--About 2.2 miles northeast of Southern Railway station in Earl, 0.4 mile west of Buffalo Creek bridge, 0.1 mile west of fork road leading northeast, 14 feet south of centerline of Earl-Grover road, 76 feet southwest of blazed 3-inch pine north of road, and 99 feet northeast of blazed 15-inch pine south of road. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 4 inches above ground. Elevation: 679.694 feet.

Plane coordinates: (N), \underline{x} = 1,847,440.15 feet; \underline{y} = 798,248.87 feet.

NC 181 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 3.75 miles northeast of Southern Railway station in Earl, at a point 3.5 miles northeast of railway station, 2.9 miles east of junction of Earl-Shelby and Earl-Grover roads, 0.9 mile east of Buffalo Creek bridge, 0.25 mile north of Earl Grover road, 182 feet southeast of southeast corner of chimney of the George Rippy residence, 160 feet southeast of northeast corner of north porch pillar of residence, and 10 feet east of centerline of farm road leading north. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 5 inches above ground. Elevation: 721.141 feet.

Plane coordinates: (N), \underline{x} = 1,851,071.84 feet; \underline{y} = 795,989.92 feet.

NC 182 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 3.55 miles northeast of Southern Railway station in Earl, at point 3.5 miles northeast of railway station, 0.95 mile east of Buffalo Creek bridge, 300 feet north of centerline of

Earl-Grover road, on top of low hill in pasture, 257 feet southeast of northeast corner of stone chimney of the L.Sepaugh tenant house, 159 feet northeast of triple pear trees at house, and 100 feet east of centerline of farm road leading north. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 5 inches above ground. Elevation: 750.174 feet.

Plane coordinates: (N), \underline{x} = 1,851,373.88 feet; \underline{y} = 795,182.12 feet.

DR
 NC 183 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 3 miles west of Grover, 4.5 miles northeast of Southern Railway station in Earl, 3.9 miles east of junction of Earl-Shelby and Earl-Grover roads, 1.95 miles east of Buffalo Creek bridge, 17.5 feet south of centerline of Earl-Grover road, 68 feet southwest of blazed 10-inch gum tree north of road, 14 feet northeast of blazed 14-inch gum tree south road, and 4 feet back from top of 3-foot bank near lone gum tree. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 753.535 feet.

Plane coordinates: (N), \underline{x} = 1,855,652.35 feet; \underline{y} = 794,095.85 feet.

NC 184 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 2.5 miles west of Grover, 4.3 miles east of junction of Earl-Shelby and Earl-Grover roads, 29.5 feet south of centerline of Earl-Grover roads, 102.5 feet northeast of northeast corner of ell of the H.Q.Blanton residence, 41.5 feet southwest of southwest corner of shed, 80 feet northeast of northeast corner of chimney of house, and 25 feet east of driveway. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 774.797 feet.

Plane coordinates: (N), \underline{x} = 1,857,510.29 feet; \underline{y} = 795,349.07 feet.

NC 185 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 2 miles west of Grover, 4.8 miles east of junction of Earl-Shelby and Earl-Grover roads, 0.15 mile west of road forks, 138 feet south of centerline of Earl-Grover road, on terrace in field on top of knoll, and 42 feet south of right angle turn in terrace. Station is a U.S.C. & G.S. and State Survey standard disk in concrete, and 4 inches above ground. Elevation: 812.527 feet.

Plane coordinates: (N), \underline{x} = 1,859,290.47 feet; \underline{y} = 796,404.89 feet.

NC 186 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.7 miles west of Grover, 5.1 miles east of junction of Earl-Shelby and Earl-Grover roads, 17.5 feet south of centerline of Earl-Grover road, 0.15 mile east of road forks, on top of 2-foot bank, 94.5 feet north of northeast corner of the E.Hambright residence, 117.5 feet northeast of northwest corner of small shed, and 83 feet northeast of northwest corner of ell of house. Station is a U.S.C. & G.S. and State Survey standard

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east of northeast corner of stone chimney of the L. Sepaugh tenant house, 159 feet northeast of triple pear tree at house, and 100 feet east of centerline of farm road leading north. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 5 inches above ground. Elevation: 750.174 feet.

Plane coordinates: (N), \underline{x} = 1,851,373.88 feet; \underline{y} = 795,182.12 feet.

NC 183 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 3 miles west of Grover, 4.5 miles northeast of Southern Railway station in Earl, 3.9 miles east of junction of Earl-Shelby and Earl-Grover roads, 1.95 miles east of Buffalo Creek bridge, 17.5 feet south of centerline of Earl-Grover road, 68 feet southwest of blazed 10-inch gum tree north of road, 14 feet northeast of blazed 14-inch gum tree south road, and 4 feet back from top of 3-foot bank near lone gum tree. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 755.535 feet.

Plane coordinates: (N), \underline{x} = 1,855,652.35 feet; \underline{y} = 794,095.85 feet.

NC 184 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 2.5 miles west of Grover, 4.3 miles east of junction of Earl-Shelby and Earl-Grover roads, 28.5 feet south of centerline of Earl-Grover roads, 102.5 feet northeast of northeast corner of ell of the H.Q. Blanton residence, 41.5 feet southwest of southwest corner of shed, 80 feet northeast of northeast corner of chimney of house, and 25 feet east of driveway. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 774.797 feet.

Plane coordinates: (N), \underline{x} = 1,857,510.29 feet; \underline{y} = 795,349.07 feet.

NC 185 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 2 miles west of Grover, 4.8 miles east of junction of Earl-Shelby and Earl-Grover roads, 0.15 mile west of road forks, 138 feet south of centerline of Earl-Grover road, on terrace in field on top of knoll, and 42 feet south of right angle turn in terrace. Station is a U.S.C. & G.S. and State Survey standard disk in concrete, and 4 inches above ground. Elevation: 812.527 feet.

Plane coordinates: (N), \underline{x} = 1,859,290.47 feet; \underline{y} = 796,404.89 feet.

NC 186 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.7 miles west of Grover, 5.1 miles east of junction of Earl-Shelby and Earl-Grover roads, 17.5 feet south of centerline of Earl-Grover road, 0.15 mile east of road forks, on top of 2-foot bank, 94.5 feet north of northeast corner of the E.Hambright residence, 117.5 feet northeast of northwest corner of small shed, and 83 feet northeast of northwest corner of ell of house. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 824.596 feet.

Plane coordinates: (N), \underline{x} = 1,860,582.86 feet; \underline{y} = 796,211.23 feet.

NC 187 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.3 miles west of Grover, 5.5 miles east of junction of Earl-Shelby and Earl-Grover roads, 0.55 mile east of road forks, 27 feet north of centerline of Earl-Grover road, 100 feet southwest of northwest corner of the Horace Dover residence, and 19 feet southwest of bottle cap in 15-inch twin oak in yard. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 4 inches above ground. Elevation: 837.507 feet.

Plane coordinates: (N), \underline{x} = 1,861,900.86 feet; \underline{y} = 794,785.76 feet.



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of Earl-Grover roads, 102.5 feet northeast of northeast corner of ell of the H.Q., Elanton residence, 41.5 feet southwest of southwest corner of shed, 80 feet northeast of northeast corner of chimney of house, and 25 feet east of driveway. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 774.797 feet.

Plane coordinates: (N), \underline{x} = 1,857,510.29 feet; \underline{y} = 795,349.07 feet.

NC 185 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 2 miles west of Grover, 4.8 miles east of junction of Earl-Shelby and Earl-Grover roads, 0.15 mile west of road forks, 138 feet south of centerline of Earl-Grover road, on terrace in field on top of knoll, and 42 feet south of right angle turn in terrace. Station is a U.S.C. & G.S. and State Survey standard disk in concrete, and 4 inches above ground. Elevation: 812.527 feet.

Plane coordinates: (N), \underline{x} = 1,859,290.47 feet; \underline{y} = 796,404.89 feet.

NC 186 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.7 miles west of Grover, 5.1 miles east of junction of Earl-Shelby and Earl-Grover roads, 17.5 feet south of centerline of Earl-Grover road, 0.15 mile east of road forks, on top of 2-foot bank, 94.5 feet north of northeast corner of the E.Hambright residence, 117.5 feet northeast of northwest corner of small shed, and 83 feet northeast of northwest corner of ell of house. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 824.596 feet.

Plane coordinates: (N), \underline{x} = 1,860,582.86 feet; \underline{y} = 796,211.23 feet.

NC 187 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.3 miles west of Grover, 5.5 miles east of junction of Earl-Shelby and Earl-Grover roads, 0.55 mile east of road forks, 27 feet north of centerline of Earl-Grover road, 100 feet southwest of northwest corner of the Horace Dover residence, and 19 feet southwest of bottle cap in 15-inch twin oak in yard. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 4 inches above ground. Elevation: 837.507 feet.

Plane coordinates: (N), \underline{x} = 1,861,900.86 feet; \underline{y} = 794,785.76 feet.

NC 188 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1 mile west of Grover, 5.8 miles east of junction of Earl-Grover and Earl-Shelby roads, 17.5 feet south of centerline of Earl-Grover road, in front yard of the B.J.Hardin residence, 59.5 feet northeast of northeast corner of residence, 67 feet northeast of northwest corner of residence, and 15 feet west of center of drive. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 852.986 feet.

Plane coordinates: (N), \underline{x} = 1,862,772.90 feet; \underline{y} = 793,648.60 feet.

NC 189 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 0.7 mile west of Grover, 23 feet south of centerline of Earl-Grover road, on top of 5-foot bank, 114 feet east of dirt T-road leading north to Bethlehem Church, 216 feet west of northwest corner of the N.Y.Camp residence, 184 feet west of southwest corner of residence, and 8 feet south of lone oak south of road. Station is a U.S.C. & G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 845.565 feet.

Plane coordinates: (N), \underline{x} = 1,863,748.70 feet; \underline{y} = 792,705.57 feet.

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feet.
Plane coordinates: (N), \underline{x} = 1,860,582.86 feet; \underline{y} = 796,211.23 feet.

24
NC 187 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1.3 miles west of Grover, 5.6 miles east of junction of Earl-Shelby and Earl-Grover roads, 0.55 mile east of road forks, 27 feet north of centerline of Earl-Grover road, 100 feet southwest of northwest corner of the Horace Dover residence, and 19 feet southwest of bottle cap in 15-inch twin oak in yard. Station is a U.S.C.& G.S. and State Survey standard disk in concrete and 4 inches above ground. Elevation: 837.507 feet.

Plane coordinates: (N), \underline{x} = 1,861,900.86 feet; \underline{y} = 794,785.76 feet.

23
NC 188 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 1 mile west of Grover, 5.8 miles east of junction of Earl-Grover and Earl-Shelby roads, 17.5 feet south of centerline of Earl-Grover road, in front yard of the B.J.Hardin residence, 59.5 feet northeast of northeast corner of residence, 67 feet northeast of northwest corner of residence, and 15 feet west of center of drive. Station is a U.S.C.& G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 852.986 feet.

Plane coordinates: (N), \underline{x} = 1,862,772.90 feet; \underline{y} = 793,648.60 feet.

30
NC 189 (S.C.Geod.S.)(Cleveland County, N.C., T.C.Hamby, 1935).--About 0.7 mile west of Grover, 23 feet south of centerline of Earl-Grover road, on top of 5-foot bank, 114 feet east of dirt T-road leading north to Bethlehem Church, 218 feet west of northwest corner of the N.E.Camp residence, 184 feet west of southwest corner of residence, and 8 feet south of lone oak south of road. Station is a U.S.C.& G.S. and State Survey standard disk in concrete and 3 inches above ground. Elevation: 845.565 feet.

Plane coordinates: (N), \underline{x} = 1,863,748.70 feet; \underline{y} = 792,705.57 feet.

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Third-order elevations determined by C.W.A. leveling

2
C 4 (U.S.G.S.)(S.C.Geod.S.)(Cherokee County, T.C.Hamby, 1934).--About 4.4 miles north of Jonesville, Union County, along State Highway 11, on northeast corner of bridge over Pacolet River, and in top of concrete post supporting handrail. Station is a standard U.S.G.S. disk stamped "C 4 1934 492" in concrete. Elevation: 491.844 feet.

No coordinates have been determined for this station.

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