

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

35-081-21
GASTONIA QUADRANGLE
NORTH CAROLINA
N3515-W8100/15
DIAGRAM NI 17-2
CHARLOTTE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

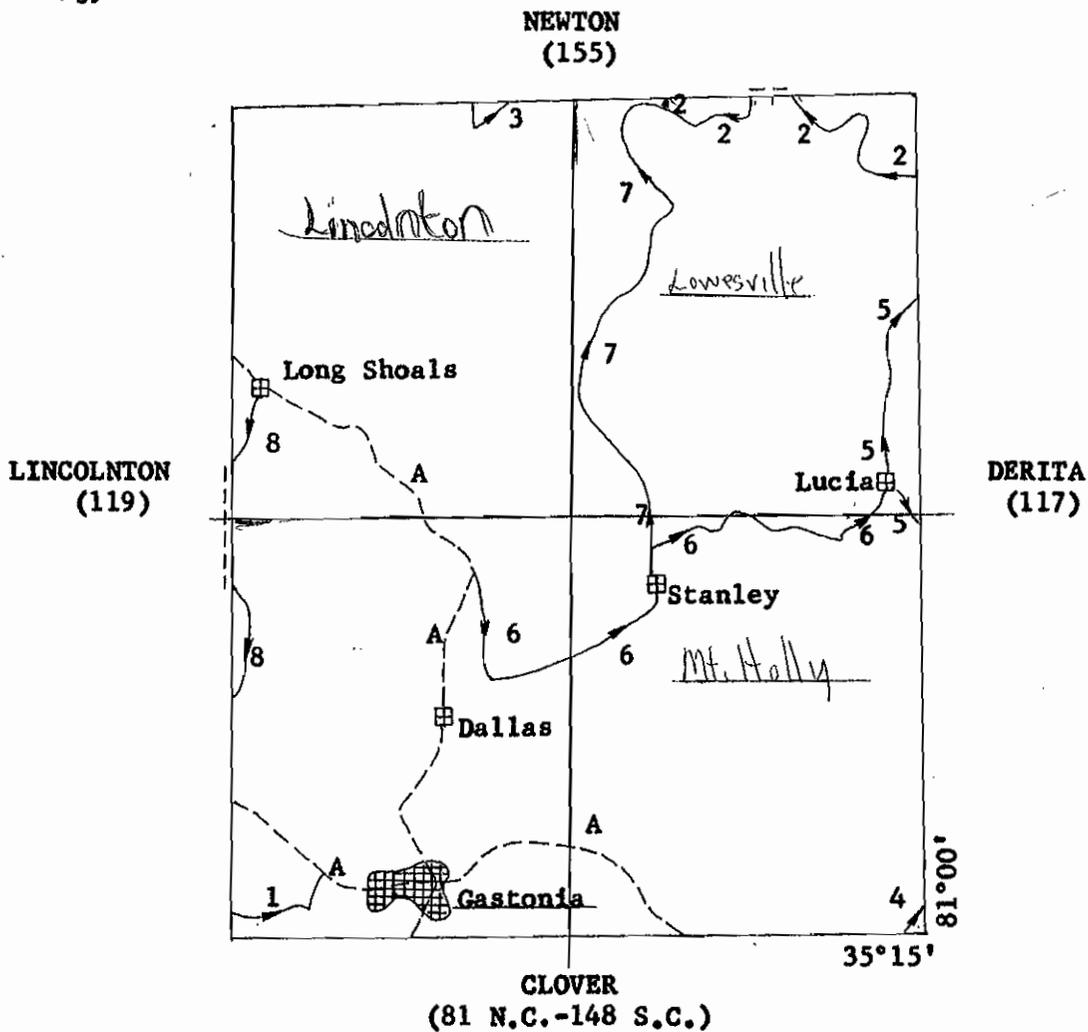
Gaston, Lincoln and
Mecklenburg Counties

Final adjustment of 1971

Edition of 6/20/73

NGVD 29
Elevations

PR: SFP/jyk



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 350812

GASTONIA QUADRANGLE

NGVD 29
Elevations

35-081-21
N3515-W8100/15
118 NORTH CAROLINA

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GASTONIA QUADRANGLE

118 NORTH CAROLINA

ISOLATED BENCH MARKS (By C. H. Semper, 1900, Book 8416; C. W. Arnold, 1912, Book 8939; F. W. Crisp, 1912, Book A8941; R. H. Kilmer, 1914, Book 9321; S. R. Archer, 1921, Book B1033)

Feet

(Hardins; 1.2 mi N. of cotton mill; 1.2 mi E. of High Shoals Station; 320 ft NW. and 100 ft W. of five corner intersection; 255 ft NE. of residence of Robert Lineberger; in line with N. margin of former station on abandoned narrow gauge Carolina and Northwestern Railway; 100 ft W. of Gastonia-Lincolnton Road; 36 ft E. of black locust tree; on iron post; standard cap stamped "COLUMBIA 1900 844" (Tied by NGS, 1935)

842.797

(Gastonia; at main entrance of Gastonia Manufacturing Building; in W. side; standard tablet stamped "COLUMBIA 1900 815" (Reported destroyed, 1935)

813.510

Lincolnton; 3.1 mi E. of Lincoln County Courthouse; 3.5 mi NW. of Iron Station; 1.2 mi NW. of Miller Siding; 0.4 mi SE. of wooden bridge over Seaboard Airline Railroad track; 30 ft N. of centerline of track; on iron post; standard cap stamped "PRIM TRAV STA NO 4 1912 946"

946.172

Iron Station, 500 ft N. of; 35 ft NW. of NW. corner of Methodist Church; in SW. corner of churchyard; on iron post; standard cap stamped "PRIM TRAV STA NO 5 1912 896"

896.012

Alexis; at SE. corner of store of C. S. Abernethy; on iron post; standard cap stamped "886 1912"

885.758

Stanley; 500 ft N. of station; on Wilmington Street; at residence of John L. Shelton; in NE. corner of yard; on iron post; standard cap stamped "PRIM TRAV STA NO 10 1912 852"

852.131

Stanley, 3.8 mi SE. of; 2.6 mi NW. of Main Street crossing of S.A.L. RR. at Mount Holly; 30 ft SE. of rd. crossing; 15 ft E. of centerline of track; on iron post; standard cap stamped "PRIM TRAV STA NO 11 1912 712"

712.310

Mount Holly; 200 ft SW. of Main Street crossing; at corner of residence of W. L. Tucker; on iron post; standard cap stamped "PRIM TRAV STA NO 12 1912 621"

620.893

Mount Holly, 3.3 mi SW. of; 1.5 mi N. and 0.5 mi W. of Southern Railway station at Belmont; 600 ft NW. of St. Mary's College; 40 ft NW. of rd. junction; on iron post; standard cap stamped "735 1912"

735.033

GASTONIA QUADRANGLE

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ISOLATED BENCH MARKS (Cont'd.)

Feet

Gastonia, 2.0 mi E. of; 2.6 mi W. of Lowell; in NE. angle of rd. crossing; 30 ft N. of track; 10 ft E. of centerline of rd.; on iron post; standard cap stamped "PRIM TRAV STA NO 20 1912 825" (NOTE: In 1931 permission was granted the North Carolina Highway Department to reset this bench mark. No further information available.) (Reported not found, 1932)	824.369
Lowell; 100 ft W. of Southern Railway station; 40 ft N. of track; 15 ft W. of centerline of rd.; on iron post; standard cap stamped "PRIM TRAV STA NO 21 1912 770" (Tied by NGS, 1935)	769.769
Mount Holly, 2.9 mi N. of; 20 ft NE. of centerline of junction of rds.; 600 ft E. of Hebron Church; on iron post; standard cap stamped "730 1912" (Reported disturbed, 1951)	729.727
Lucia; at former post office; 6.9 mi N. of Mount Holly; 2.1 mi S. of Lowesville; at SW. corner of store of A. U. Straup; on iron post; standard cap stamped "PRIM TRAV STA NO 242 1912 819"	818.892
Triangle, 2.2 mi S. of; 20 ft NE. of centerline of junction of rds.; on iron post; standard cap stamped "818 1912" (Reported destroyed, 1948)	818.223
Triangle, 3.0 mi W. of; in triangle formed by junction of rd. N.; on Paines Farm; 40 ft E. of corner post of barnyard fence; 40 ft W. of white oak tree; 3 ft N. of milepost "Lincolnton 14 miles"; on iron post; standard cap stamped "PRIM TRAV STA NO 8 1912 797"	798.119
Triangle, 6.1 mi W. of; 5.4 mi NE. of Iron Station; 0.2 mi N. of Machpelah Church; 0.2 mi W. of Tuckers Grove; in triangle formed by rd. junction; 50 ft SW. of NW. corner of old storehouse; 30 ft NW. of white oak tree; on iron post; standard cap stamped "PRIM TRAV STA NO 7 1912 898"	899.441
Iron Station, 3.2 mi NE. of; 570 ft NE. of Reinhardt Bridge over Leepers Creek; near Rehoboth Furnace; in NW. corner of garden of D. M. Armstrong; 20 ft S. of junction of rd. NW.; on E. side of old plank rd.; on iron post; standard cap stamped "PRIM TRAV STA NO 6 1912 757"	758.963
Stanley, 3.2 mi NE. of; at residence of B. F. Carpenter; 400 ft N. of centerline of rd.; in SE. corner of house; standard tablet stamped "795"	794.723
Stanley, 6.0 mi NE. of; 1.5 mi SW. of, thence NW. from Lucia; 0.3 mi N. of residence of L. Eddleman; 5 ft W. of centerline of rd.; in 4- by 9-ft boulder; standard tablet stamped "767"	766.798

GASTONIA QUADRANGLE 118 NORTH CAROLINA

ISOLATED BENCH MARKS (Cont'd.)

Feet

Stanley, 6.0 mi NE. of; 1.0 mi N. of Mariposa; 6.5 mi SW. of Triangle; at junction of rd. E.; on farm of J. F. Reinhart; in NE. corner of concrete water trough in barnyard; standard tablet stamped "813" 813.113

LINE 1.

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

Gastonia, 1.8 mi W. of State Armory, along U. S. Highway 29 and State Highway 74; 96 ft NW. of junction of dirt rd. N. to Myrtle School; in grass strip on S. side of roadway; in concrete post; standard tablet stamped "7 RLB 1945 RESET 1953" (NOTE: Reset 1953 is 36 ft NW. of old BM in grass strip of U. S. Highways 74 and 29; on S. side of roadway) 815.135

Reference mark; 103 ft S. of tablet; 20 ft S. and 36 ft W. of junction of U. S. Highway 29 and dirt rd. S. to Pleasant Ridge; on SE. corner of concrete sewer cover; chiseled square 811.64

"Q 40 1932 833.184" (NGS) 833.141

LINE 2.

R. H. Paine, 1951; Book AV 248

Denver, 4.7 mi SE. of, along State Highway 16, thence 1.9 mi W.; 3.3 mi SE. of Kidville Church; 30 ft SW. of Y-rd. fork; 4 ft N. of SE. corner fencepost; in concrete post; standard tablet stamped "17 RHP 1951 815" (Reported not found, 1969) 814.874

Kidville Church, 0.8 mi SE. of; at top of hill; 21 ft SW. of rd.; 8 ft W. of 12-in. maple tree; 30 ft SE. of field rd.; in concrete post; standard tablet stamped "18 RHP 1951 834" 833.719

[Jogs into Newton quadrangle]

Amity Church, 1.2 mi E. of; 330 ft S. of wooden bridge over Anderson Creek; 24 ft SE. of graveled rd.; 3 ft E. of corner fencepost; in concrete post; standard tablet stamped "20 RHP 1951 746" 745.333

GASTONIA QUADRANGLE
Book AV 248

118 NORTH CAROLINA

R. H. Paine

1951

LINE 3.

Feet

R. H. Paine, 1951; Book AV 248

Hickory Grove School, 5.7 mi E. of; 0.4 mi NE. of Antioch Church; along State Highway 150, thence 1.4 mi SE.; 1.0 mi NW., thence 3.0 mi SW. of Amity Church; at T-rd. fork; 18 ft SE. of graveled rd. and in line with rd. NW.; in concrete post; standard tablet stamped "27 RHP 1951 862"

862.413

LINE 4.

R. L. Meador, 1967; Book AV 1436

7 4 2.12 Paw Creek; 2.2 mi NW. of RR. station, along State Highway 27, thence 0.9 mi S. along County Road 1609, thence 2.7 mi SW. along County Road 1601; 1.0 ft higher than center of bridge over Interstate Highway 85; in top of NE. end of SE. wheelguard; standard tablet stamped "133 JAS 1966 691"

691.024

LINE 5.

R. L. Meador, 1967; Book AV 1436

7 23 5.10 Mount Holly, 6.0 mi N. of; 0.9 mi S. of former post office at Lucia; 15 ft NE. of junction of rd. NE.; on iron post; standard cap stamped "774"

774.344

7 24 5.94 U.E., 30 ft W. of, and 1.0 ft higher than centerline of State Highway 16 at junction of County Road 1905 W.; on E. end of small concrete island for stop sign; chiseled square

820.28

7 25 6.76 Lucia; 1.0 mi N. of fire department, along State Highway 16; 1.5 mi S. of junction of State Highways 16 and 273 W. in Lowesville, along Highway 16; 39 ft NE. of, and 1.0 ft higher than centerline of hwy. at junction of drive E; 0.5 mi W. of metal witness sign; in concrete post projecting 0.1 ft above ground; standard tablet stamped "148 JAS 1966 816"

816.290

7 26 8.14 Lowesville; in SE. corner of yard of Ed Lowe; on iron post; standard cap stamped "785"

784.986

GASTONIA QUADRANGLE

118 NORTH CAROLINA

LINE 5 (Cont'd.)

Feet

*	7	27	9.22	Lowesville; 1.1 mi N. of junction of State Highways 16 and 273 W., along Highway 16; 1.0 ft higher than center of bridge over RR.; in top of S. end of W. wheelguard; standard tablet stamped "149 JAS 1966 798"	Elevation <u>798.327</u>
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LINE 6.

H. L. Zohn, Jr., 1970; Book AV 1556

1	3	0.00	Dallas; at SW. corner of Main Street crossing; in N. end of E. face of brick cotton mill; standard tablet stamped "COLUMBIA 1900 785 PRIM TRAV STA NO 1 1912" (Tied by NGS, 1935)	784.218
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1	5	1.39	Dallas; 1.4 mi NE. of town square, along State Highway 275; at Lineberger's Grocery; in center of concrete pump base for thrifty gas; standard tablet stamped "30 HLZ 1970"	763.196
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1	8	2.77	Dallas, 2.7 mi NE. of town square, along State Highway 275; at 390-ft concrete bridge over South Fork River; in SW. end of SE. guardrail base; standard tablet stamped "31 HLZ 1970"	664.996
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1	10	4.39	Stanley; 0.8 mi SW. of Springfield Elementary School, along State Highway 275; at Rowland's Grocery; in SW. end of concrete base for Atlantic Gas pumps; standard tablet stamped "32 HLZ 1970"	804.628
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1	13	5.83	U.E., Stanley; 28 ft NE. of junction of State Highway 27 and County Road 1922; on SW. end of traffic island; chiseled square	825.41
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1	14	6.52	Stanley; 0.5 mi E. of Bruington Baptist Church, along County Road 1918; 250 ft E. of junction of County Roads 1918 and 1923; 0.5 ft N. of witness sign; 39 ft E. of, and 4.0 ft higher than centerline of rd. opposite; in concrete post; standard tablet stamped "33 HLZ 1970"	811.115
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1	16	7.77	Stanley; 1.8 mi E. of Bruington Baptist Church, along County Road 1918; at 31-ft concrete culvert; 17 ft SE. of, and about level with centerline of rd. opposite; in NE. end of culvert; standard tablet stamped "34 HLZ 1970"	636.156
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GASTONIA QUADRANGLE

118 NORTH CAROLINA

LINE 6 (Cont'd.)

Feet

1	18	8.92	Lucia; 3.0 mi SW. of junction of State Highway 16 and County Road 1905, along Road 1905; 0.5 ft W. of witness sign; 89 ft NE. of, and 3.0 ft lower than junction of County Roads 1905 and 1919; in concrete post flush with ground; standard tablet stamped "35 HLZ 1970"	750.158
1	20	9.86	Lucia; 2.0 mi SW. of junction of State Highway 16 and County Road 1905, along Road 1905; at 300-ft concrete bridge over Dutchmans Creek; in SW. end of SE. backwall; standard tablet stamped "36 HLZ 1970"	627.252
1	22	10.86	Lucia; 1.0 mi SW. of junction of State Highway 16 and County Road 1905, along Road 1905; 0.5 ft SE. of witness sign; 100 ft W. of, and about level with junction of County Roads 1905 and 1820; in concrete post projecting 0.2 ft.; standard tablet stamped "37 HLZ 1970"	804.172
1	25	11.81	U.E., 30 ft W. of, and 1.0 ft higher than centerline of State Highway 16; chiseled square (Also in line 5)	820.28

LINE 7.

H. L. Zohn, Jr., 1970; Book AV 1556

1	30	0.00	U.E., chiseled square (Described in line 6)	825.41
1	30	0.62	Stanley; at Brunington Baptist Church; on N. side of steps at main entrance; in top of brick wall; NGS standard reference mark disk stamped "STANLEY NO 1 1933"	856.542
1	34	2.64	Stanley; 2.0 mi N. of Brunington Baptist Church, along State Highway 27; at 6-ft concrete culvert; 18 ft NE. of, and 1.0 ft lower than centerline of hwy. opposite; in NW. end of culvert; standard tablet stamped "38 HLZ 1970"	840.298
1	36	3.97	Reference mark No. 2; 0.3 mi from station; 21 ft E. of centerline of hwy.; 72 ft W. of NW. corner of white farmhouse; in concrete post; NGS standard reference mark disk stamped "ALEXIS NO 2 1933"	899.607

GASTONIA QUADRANGLE

118 NORTH CAROLINA

LINE 7 (Cont'd.)

Feet

1	37	4.34	Reference mark No. 3; 78 ft from station; between hwy. and RR.; 35 ft (slope) E. of E. rail; 32 ft W. of centerline of hwy.; in concrete post; NGS standard reference mark disk stamped "ALEXIS NO 3 1933"	912.580
1	38	4.36	Stanley, 4.0 mi NW. of; at first rise in grade 0.2 mi N. of Gaston-Lincoln County line sign on State Highway 27; 40 ft S. of deepest part of hwy. cut; 120 ft SW. of residence of D. E. Rhyne; 27 ft W. of centerline of hwy.; 39 ft (slope) E. of E. rail of single track RR.; in concrete post; NGS standard triangulation station disk stamped "ALEXIS 1933"	914.317
1	41	5.85	Alexis; 0.9 mi NW. of post office, along State Highway 27, thence 1.3 mi NE. and N. along county roads; 0.5 ft W. of witness sign; 175 ft S. of rd. junction E; 47 ft W. of, and about 1.8 ft lower than centerline of rd. opposite; in concrete post projecting 1.4 ft.; standard tablet stamped "39 HLZ 1970 RESET 1980"	909.589
1	43	6.94	Alexis; 0.9 mi NW. of post office, along State Highway 27, thence 2.4 mi NE. and N. along county roads; at 95-ft wooden bridge over Leepers Creek; in NE. end of SE. backwall; standard tablet stamped "40 HLZ 1970"	705.563
1	45	8.22	Alexis; 0.9 mi NW. of post office, along State Highway 27, thence 3.7 mi NE. and N. along county roads; 0.5 ft SE. of witness sign; at NE. edge of right-of-way for steel tower powerline; 43 ft WNW. of, and 2.0 ft higher than centerline of rd. opposite; in concrete post projecting 0.2 ft.; standard tablet stamped "41 HLZ 1970"	870.633
1	46	9.19	Boger City; 1.5 mi SE. of junction of State Highways 27 and 150, along Highway 27, thence 5.9 mi E. along State Highway 73; at Tuckers Grove Church; on NE. end of first step; standard tablet stamped "42 HLZ 1970"	911.344
1	48	10.68	Boger City; 1.5 mi SE. of junction of State Highways 27 and 150, along Highway 27, thence 4.5 mi E. along State Highway 73; 0.5 ft SW. of witness sign; 76 ft NE. of, and 2.0 ft higher than junction of State Highway 73 and County Road 1362; in concrete post projecting 0.3 ft.; standard tablet stamped "43 HLZ 1970"	848.037

GASTONIA QUADRANGLE

118 NORTH CAROLINA

LINE 7 (Cont'd.)

Feet

1	50	12.14	Boger City; 1.5 mi SE. of junction of State Highways 27 and 150, along Highway 27, thence 4.5 mi E. along State Highway 73, thence 1.5 mi NE. along county rd.; at Amity Baptist Church; at main entrance; in NW. side of concrete steps; standard tablet stamped "44 HLZ 1970"	889.872
1	53	13.31	"20 RHP 1951 746" (Described in line 2)	745.333

LINE 8.

H. L. Zohn, Jr., 1970; Book AV 1556

1	57	0.00	"N 157 1935" (NGS)	732.128
1	58	0.93	Long Shoals; 1.3 mi S. of Long Shoals Baptist Church, along county rd.; at 51-ft concrete culvert for Beaverdam Creek; 55 ft E. of, and 11.0 ft lower than centerline of hwy. opposite; in N. end of culvert; standard tablet stamped "45 HLZ 1970"	742.009

Jogs into Lincolnton quadrangle

1	65	5.44	Bessemer City High School, 4.1 mi NE. of, along county rd., thence 0.1 mi NW. along State Highway 277; at 10-ft concrete culvert; 27 ft SW. of, and 0.5 ft lower than centerline of hwy. opposite; in SE. end of culvert; standard tablet stamped "48 HLZ 1970"	910.616
1	67	6.53	Bessemer City High School, 3.0 mi NE. of, along rd.; at 5-ft concrete culvert; 54 ft SW. of, and 1.0 ft lower than junction of County Roads 1448 and 1454; in N. end of culvert; standard tablet stamped "49 HLZ 1970"	899.534