

THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

35-078-33
FAYETTEVILLE QUADRANGLE
NORTH CAROLINA
N3500-W7845/15
DIAGRAM NI 17-3
RALEIGH

72

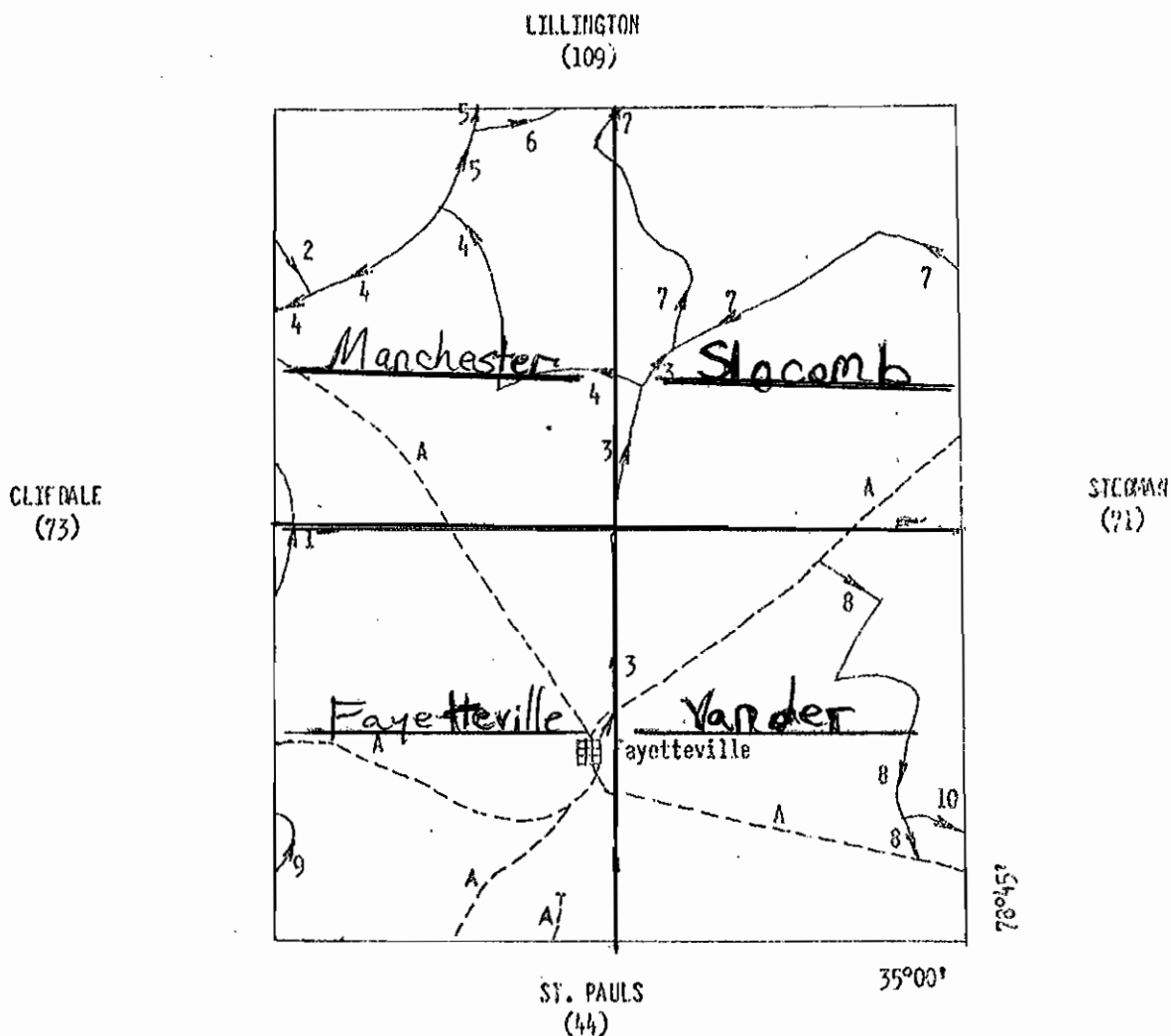
Cumberland and Harnett Counties

Final adjustment of 1974

Edition of 3/13/75

PR: WSM/rmc

NGVD 29
Elevations



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 350783

ISOLATED BENCH MARKS (By R. G. Clinite, C. H. Semper, and K. P. Kilby, 1918; Books B 309, and B 321)

NGVD 29
Elevations

Feet

- Fayetteville; 46 ft E. of SE. corner of A. C. L. RR. Station; in line with S. end of station; 3 ft N. of concrete sidewalk; 3 in underground; on iron post; standard cap stamped "102.250 PRIM TRAV STA NO 4 MAC 1918" (Tied by NGS, 1935) *USGS REPORT GDN NOT FOUND 89/05/26* *already in search* 102.277
- Fayetteville, 2.9 mi W. of; 80 ft W. of junction of Chicken and Morganton rds.; near sign-board between rds., on wooded bank; on iron post; standard cap stamped "PRIM TRAV STA NO 21 MAC 1918 219" *DEST '47* 219.193
- Fayetteville, 4.8 mi W. of; 3.0 mi E. of Clifdale; at Skibo sta. of Aberdeen & Rockfish RR.; 360 ft E. of E. wye of spur track to Fort Bragg; 60 ft NE. of NE. corner of loading platform; 43 ft N. of N. rail; on N. side of Chicken rd.; on iron post; standard cap stamped "220" (Tied by NGS, 1935) (Reported not found, 1948) *USGS REPORT GDN NOT FOUND 89/05/26* 220.826
- Fayetteville, in N. wall of post office; 1 ft E. of NW. corner and 4 ft higher than ground; standard tablet not stamped (Tied by NGS, 1932) *← in search* 107.050
- Fayetteville, 5.9 mi W. of, 950 ft W. of bridge over Beaver Creek, 25 ft N. of rd., at drive-way to dwelling, on bank; on iron post; standard cap stamped "PRIM TRAV STA NO 22 MAC 1918 204" *USGS REPORT GDN NOT FOUND 89/05/26* *203.932* 203.932
- Fort Bragg East Base, 7.0 mi along Morganton rd. W. of Fayetteville, 0.3 mi NE. of dwelling of Mr. McMilline and on his property, 400 ft N. of rd., in top of 24- by 24-in. concrete post set 4.8 ft in ground; standard tablet not stamped 43.193
- Fayetteville, 3.6 mi NW. of A. C. L. RR. station; along Yackin rd.; at junction of Wester Plank and Yackin rds.; 8 ft E. of signpost; on iron post; standard cap stamped "PRIM TRAV STA NO 5 MAC 1918 230" (Reported not found, 1948) *USGS REPORT GDN NOT FOUND 89/05/26* 229.598 ✓
- Fayetteville, 5.5 mi NW. of; 0.3 mi NW. of crossing of Beaver Creek; at top of hill; 12 ft S. of rd., 7 ft W. of persimmon tree; on iron post standard cap stamped "PRIM TRAV STA NO 6 MAC 1918 234" *433* 234.256 ✓
- Fayetteville, 7.7 mi NW. of; 4.7 mi SE. of Longstreet School; 25 ft SW. of crossing of second-class rd.; 14 ft N. of persimmon tree; on iron post; standard cap stamped "PRIM TRAV STA NO 7 MAC 1918 282" (Reported not found, 1948) *350792* 282.056 ✓
- Manchester, 2.5 mi SE. of; 50 ft E. of crossing of A. C. L. RR. and Western Plank rd.; on bank 8 ft higher than track; on iron post; standard cap stamped "PRIM TRAV STA NO 18 MAC 1918 266" (Reported destroyed, 1948) *INDEXED* *435* 265.936
- Manchester, 3 mi SE. of; 8.5 mi NW. of Fayetteville, 0.4 mi SE. of junction of Murchison and Western Plank rds.; 20 ft NE. of Murchison rd., on sand ridge covered with brush; in top of 18- by 18-in concrete post set 30 in in ground; standard tablet stamped "327" (USGS Murchison triangulation station) *350783* *431* 326.481
- Fayetteville, 8.1 mi NW. of, 290 ft SE. of crossroads; 14 ft E. of Western Plank rd.; on iron post; standard cap stamped "PRIM TRAV STA NO 19 MAC 1918 277" (Reported not found, 1948) *350792* *436* 276.928

NGVD 29
Elevations

ISOLATED BENCH MARKS (Cont'd)

Feet

Fayetteville, 5.4 mi NW. of, 10 ft E. of rd., at hedge and fence row E.; on iron post; standard cap stamped "PRIM TRAV STA NO 20 MAC 1918 242" (Reported not found, 1948) 350783
241.605

Beaver Pond, 6 mi (airline) NW. of Fayetteville; along NE.-SW. rd. midway between Wester Plank and Yadkin rds.; 50 ft SE. of pond; 25 ft E. of cotton gin; 3 ft E. of scales; on iron post; standard tablet stamped "194" ⁴⁹⁸ **USGS REPORT - GDW** NOT FOUND 89/05/26 350783
193.677

LINE 1.

By R. L. Beitle, 1946; Book V 262

Clifdale, 4.7 mi N. of; 0.9 mi S. of junction of Reilly and Honeycutt rds.; 0.4 mi N. of bridge over Big Branch; 63 ft E. of center of Reilly rd. at top of hill; 36 ft S. of guy pole; 85.6 ft SW. of SW. corner of chapel; in concrete post; standard tablet stamped "50 RLB 1946 310" ⁴⁴⁹ 350792
USGS REPORT - A CONCRETE POST WAS FOUND BROKEN OFF AT THE LOCATION OF MARK. NOT FOUND 89/05/26 **MAY BE LOST**
310.130
Reference mark; 88 ft S. of tablet; 52 ft E. of center of Reilly rd.; in root on W. side of 12 in pine tree; copper nail and washer
304.82

Clifdale, 5.6 mi N. of; at junction of Reilly and Honeycutt rds.; 32 ft E. of center of Reilly rd.; 5 ft E. of curb; 2 ft E. of rd. sign; in concrete post projecting 6 in.; cap on top of pipe stamped "T A 132 CORPS ENGRS MON 16" ⁴⁶⁷ 350792
231.442

LINE 2.

By J. R. Rigby, 1946; Book V 262

Manchester, 1.25 mi NW. of, along State Highway 87; 1.4 mi NE. along dirt rd., thence 2.0 mi SE. along hwy. from Overhills; 63 ft SW. of center of hwy.; 24 ft from dirt rd. SE.; 13 ft SE. of dirt rd. S.; in concrete post; standard tablet stamped "2 JRR 1946 249" ⁴⁴⁰ 249.387

Reference mark; 8 ft E. of tablet; in root on NW. side of 10-in twin oak tree; copper nail and washer
249.66

Manchester, at intersection of State Highway 87 and old State Highway 210; 1.1 mi E. of Manchester station; 360 ft S. of one bridge and 300 ft W. of another; 122 ft S. of center of old hwy.; 37 ft W. of center of State Highway 87; in concrete post; standard tablet stamped "5 JRR 1946 153" ⁴⁴¹ 154.045

Reference mark; 13 ft NE. of tablet; 30 ft W. of hwy.; 112 ft S. of old hwy.; on concrete hwy. right-of-way post; chiseled square
154.27

LINE 3.

By R. L. Beitle, 1946; Book V 262

"D:23 1918" (NGS) 101.949

Fayetteville, 2.5 mi N. of, along hwy.; 0.2 mi S. of main entrance to Veterans Hospital; 30 ft E. of hwy.; 19 ft N. of rd. E.; in concrete post; standard disk stamped "FAYETTEVILLE CITY LIMITS" 350783
204.310

USGS REPORT - GDW NOT FOUND 89/05/26 ⁴⁶⁸

468

LINE 3 (Cont'd)

Feet

Fayetteville, 2.8 mi N. of, along hwy.; 790 ft N. of main entrance to Veterans Hospital; 167 ft S. and 58 ft E. of junction of S. one of two rds. NE.; N. one of two is Kirkland Drive; 19 ft S. of guy pole, in concrete post; North Carolina Geodetic Survey standard disk stamped "NC 636 RESET 1963"

186.824

IND

Reference mark; 83 ft NE. of disk; 87 ft S. and 48 ft E. of rd. forks; in root on SW. side of 20 in pine tree; copper nail and washer

188.46

Fayetteville, 4.8 mi N. of, along U. S. Highway 401; 50 ft right of centerline Survey Sta. 194-45; N.C. State Project No. 8.13373; 104 ft W. of power pole No. 586; 43 ft N. and 50 ft W. of junction of private lane W.; at edge of woods; in concrete post; standard tablet stamped "51 RLB 1946 RESET 1963"

232.720

350783

456

*Good condition 10-22-90 C. McIlwain
To be destroyed 11-29-90 Rose & Carroll*

Reference mark; 29 ft N. of tablet; 72 ft N. and 14.5 ft W. of junction of private lane W.; 27 ft N. of telephone pole No. 73; on E. side in base of 24 in pine tree; two 16 penny nails

232.54

Fayetteville, 5.4 mi N. of; 0.4 mi S. of airfield; 175 ft E. of SE. corner of peach sorting building; 65 ft N. of woods rd.; 28 ft E. of center of hwy.; at corner of fence around small field, in concrete post projecting 6 in; standard tablet stamped "IT 16 WAC 1946 240"

240.290

350783

459

Reference mark; 66 ft SE. of tablet; 55 ft S. and 72 ft E. of junction of lane E., in base on W. side of 10 in pine tree; rail spike

240.34

Fayetteville, 8.0 mi NE. of; 0.3 mi SW. of bridge over Carvers Creek; 16 ft SW. and 63 ft NW. of junction of U. S. Highway 15A and rd. NW.; in concrete post projecting 4 in.; standard tablet stamped "52 RLB 1946 123"

123.012

350783

~~NIF 2/84 HGG~~
451

Reference mark; 51 ft NW. of tablet; 34 ft SW. and 110 ft NW. of rd. junction; in root on S. side of 20 in pine tree; copper nail and washer

122.96

LINE 4.

By R. L. Beitle, 1946; Book V 262

Fayetteville, 8.0 mi NE. along hwy., thence 2.4 mi NW. along dirt rd.; 520 ft E. of firebreak; 37 ft S. of center of rd. at top of hill; in concrete post; standard tablet stamped "53 RLB 1946 249"

248.886

350783

Reference mark; 38 ft E. of tablet; 32 ft S. of rd., in base on N. side of 10 in pine tree; rail spike

248.67

Manchester Station, 4.2 mi NE. of, thence 3.1 mi SE.; at NE. end of Vaughn field; 46 ft E. of center of forks of rd. NW.; 46 ft W. of center of forks of rd. NE.; 184 ft N. of S. tip of grassy point formed by rd. forks; in concrete post projecting 4 in; standard tablet stamped "54 RLB 1946 303"

303.027

USGS REPORT RLM
453

NDT FOUND 89/05

Reference mark; 156 ft N. of tablet; 82 ft E. of forks of rd. NW.; in base on W. side of 10 in pine tree; rail spike

300.18

LINE 4 (Cont'd)

Feet

- Manchester Station, 4.2 mi NE. of, thence 1.0 mi SE.; 0.9 mi SE. of bridge over Lower Little River; 13 ft N. and 42 ft W. of junction of lane W. at NE. corner of cultivated field; on edge of woods; 23 ft N. of lane W.; in concrete post projecting 4 in; standard tablet stamped "55 RLB 1946 178" *454* **USGS REPORT RLM** NOT FOUND 89/05 177.802
- Reference mark; 86 ft N. of tablet; 92 ft N. and 58 ft W. of junction of lane W.; in base on E. side of 20 in pine tree; rail spike 175.73
- Manchester station 3.7 mi NE. of, along Old State Highway 210; 57 ft SW. of NE. apex of grassy triangle at Y-rd. forks; 38 ft SE. of center of hwy.; 34 ft NW. of center of rd. SW.; in concrete post; standard tablet stamped "56 RLB 1946 159" *455* **USGS REPORT RLM** NOT FOUND 89/05 158.873
- Reference mark; 93 ft N. of tablet; 53 ft NW. of center of hwy.; in root on NE. side of 12 in oak tree; copper nail and washer 157.58
- Manchester sta., 1.1 mi E. of, along dirt rd., thence 0.6 mi NE. along old State Highway 210; 24 ft S. of center of hwy., 18 ft NE. of driveway SE.; in concrete post projecting 6 in; U.S.C.E. cap. stamped "30 NC 1 CE 7/3 T T A 83 1942 MON 7" *465* **USGS REPORT RLM** DESTROYED 89/05 164.990
- Manchester sta., 1.1 mi E. of, along dirt rd., thence 0.2 mi NE. along old State Highway 210; 31 ft N. of center of hwy.; 22 ft E. of driveway NW., 2 ft S. of fence, in concrete post projecting 6 in; U.S.C.E. cap stamped "30 NC 1 CE 6/3 T T A 83 1942 MON 6" *464* **USGS REPORT RLM** NOT FOUND 89/05 166.400

LINE 5.

By R. L. Beitle, 1946; Book V 262

- Manchester, sta., 4.7 mi NE. of; 41 ft SE. of center of hwy.; on curve; on prolongation of tangent S.; in concrete post projecting 6 in; U.S.C.E. cap stamped "30 NC 1 CE 12/3 T T A 83 1942 MON 12" *460* **USGS REPORT RLM** NOT FOUND 89/05 206.833
- Manchester Station, 6.3 mi NE. of; at NE. corner of woods opposite service sta. of J. L. Matthews; 24 ft E. of center of old State Highway 210; 22 ft N. of dirt rd. E.; in concrete post standard tablet stamped "TI 3 WAC 1946 248" *456* **USGS REPORT RLM** NOT FOUND 89/05 248.462
- Reference mark; 6 ft NE. of tablet; 40 ft E. of hwy.; 28 ft N. of dirt rd.; 88 ft N. of N. corner of service sta.; in root on SE. side of 9 in oak tree; copper nail and washer 247.96

LINE 6.

By R. L. Beitle, 1946; Book V 262

- Bethel Church, 275 ft SW. of SW. corner of; 17 ft S. of center of rd.; 4 ft S. of ditch; 4 ft N. of fence; in concrete post; standard tablet stamped "TI 4 WAC 1946 178" *457* **USGS REPORT RLM** NOT FOUND 89/05 178.013
- Reference mark; 100 ft NE. of tablet; 19 ft SE. of center of rd.; 2 ft N. of fence; in root on NE. side of 6 in red-oak tree; copper nail and washer 179.22

1946

NGVD 29
Elevations

LINE 7.

Feet

By J. R. Rigby, 1946; Book V 262

- Carlos, 0.2 mi NW. of crossing of RR. and rd.; at crossroads; 23 ft N. of center of E.-W. rd.; 20 ft E. of center of N.-S. rd.; in pasture; 6 ft NE. of fence corner, in concrete post; standard tablet stamped "7 JRR 1946 118" (Reported destroyed, 1965)
442 350783
118.488
- Reference mark; 37 ft W. of, and across rd. from tablet; 17 ft N. of E.-W. rd.; 17 ft W. of N.-S. rd.; at U.S.C.E. monument with cap on pipe missing, on concrete; chiseled square
117.68
- Slocum, 0.7 mi NW. of, thence 1.7 mi NE; opposite clearing; 680 ft from E. end and 285 ft from W. end of clearing; 28 ft S. of center of dirt rd.; in concrete post; standard tablet stamped "8 JRR 1946 113"
443 350783
113.009
- Reference mark; 12 ft S. of tablet; 40 ft S. of center of rd.; in root on S. side of 11 in sweet-gum tree; copper nail and washer
112.83
- Slocum, 0.7 mi NW. of; 100 ft NW. of preceding bench mark; 23 ft NE. and 32 ft SE. of rd. forks; in concrete post projecting 3 in; North Carolina Geodetic Survey standard disk stamped "NC 687" (this bench mark is in gravel dump and subject to traffic disturbance)
350783
117.659
- Slocum, 1.8 mi W. of; 9.1 mi along U. S. Highway 15A from Fayetteville; 325 ft SE. of center of hwy.; ~~118~~ ft SE. of center of ~~dirt rd.~~ ^{SK 710}; ~~64~~ ft NW. of E. corner of church; in concrete post; standard tablet stamped "9 JRR 1946 173" 64.2 FT ENE OF N. COR. OF CH, 50.5 FT. NE OF CHIMNEY ON N. SIDE OF CHURCH, PROJ. 4", 2' BELOW RD.
444 350783
173.159
- Reference mark; 282 ft SW. of ~~table~~ ⁴⁴⁴; 900 ft E. of junction of hwy. and dirt rd.; 172 ft SW. of W. corner of church; in root on NE. side of 12 in oak tree; copper nail and washer
172.32
- Fayetteville, 10.9 mi NE. of, along U. S. Highway 15A; 35 ft N. and 64 ft E. of rd. junction; in concrete post; standard tablet stamped "10 JRR 1946 253" N/P P/O. 2/84 HGG
445 350783
253.740
- Reference mark; 11 ft NE. of tablet; 55 ft E. of center of hwy.; 39 ft N. of rd. junction; in root on SW. side of 13 in red-oak tree; copper nail and washer
253.53
- Fayetteville, 10.9 mi NE. of, along hwy., thence 1.6 mi NW. along dirt rd.; 33 ft S. and 43 ft E. of junction of trail W.; at crest of hill; in concrete post; standard tablet stamped "11 JRR 1946 240"
446 350783
240.309
- Reference mark; 37 ft E. of center of rd.; 24 ft S. of trail W.; in root of 6 in red-oak tree; copper nail and washer
240.33
- Fayetteville, 10.9 mi NE. of, along hwy., thence 3.3 mi NW. along dirt rd.; 43 ft N. and 33 ft W. of rd. forks; 7 ft W. of barn; 83 ft W. of SW. corner of frame house; in concrete post; standard tablet stamped "12 JRR 1946 140"
447 140.613
- Reference mark; 128 ft N. of tablet; 45 ft S. of rd. forks; 23 ft E. of center of rd.; in root on W. side of 24 in oak tree; copper nail and washer
142.68

LINE 7 (Cont'd)Feet

Fayetteville, 10.9 mi NE. of, along hwy., thence 4.4 mi NW. along dirt rd.; 8.5 mi W. of Linden; 915 ft E. of junction of rd. N.; 16 ft N. of center of rd.; 4 ft N. of ditch; 2 ft S. of fence and woods line; in concrete post projecting 6 in; standard tablet stamped "TT 5 WAC 1946 135" (Reported not found, 1955) 458 135.435

Reference mark; 19 ft NE. of tablet; 29 ft N. of center of rd.; 6 ft N. of wire fence; in root on S. side of 22 in white-oak tree; copper nail and washer 135.85

LINE 8.NGVD 29
Elevations

By H. R. Rigby, 1946; Book V 262

"X 69 1934" (NGS) 100.016

Beard, 1.4 mi SE. of, along dirt rd., thence 0.7 mi SW. along U. S. Highway 301; 7 mi along hwy. NE. of Fayetteville; 27 ft W. of center of hwy.; 21 ft N. of center of dirt rd. E.; 5 ft NW. of 20 in oak tree; in concrete post projecting 4 in; standard tablet stamped "TT 19 WAC 1946 132" (Reported not found, 1965) 460 132.724

Reference mark; 6 ft E. of tablet; 45 ft N. of center of dirt rd.; 36 ft E. of center of hwy.; in root on NE. side of 17 in red-oak tree; copper nail and washer 132.11

Beard, 4.5 mi SE. of; 3.7 mi N. of RR. section house at Vander; 96 ft N. and 23 ft W. of crossroads; 51 ft E. of pine tree; in concrete post; U.S.C.E. cap stamped "30 NC T T A 82 1942 MON 16" 463 142.427

Vander, 3.4 mi N. of RR. section house; 57 ft W. of NW. corner of cabin; 17 ft SE. of center of rd.; in concrete post; U.S.C.E. cap stamped "30 NC T T A 82 1942 MON 15" 462 142.325

Reference mark; 43 ft E. of monument 15; 56 ft SE. of center of rd.; 39 ft N. of cabin; in root on NW. side of triple chinaberry tree; copper nail and washer 141.76

Vander, 1.0 mi N. of RR. section house; 6.5 mi along State Highway 24 E. of Fayetteville; opposite service sta. owned by Mrs. Godwin; 24 ft S. of center of hwy.; opposite rd. N.; 330 ft W. of dirt rd. S.; in concrete post 3 ft higher than hwy.; standard tablet stamped "TT 21 WAC 1946 145" 461 145.357

Reference mark; 172 ft NE. of tablet; 24 ft N. of NW. corner of service sta.; in root on W. side of 12 in pine tree; rail spike 145.47

NGS standard triangulation station disk stamped "A 23 VANDER 1918" (probably disturbed;
NGS elevation not used) 150.345

Azimuth mark, 750 ft in azimuth 101°54' from station; 20 ft S. of S. rail; in NE. corner of cultivated field; 73 ft SE. of telephone pole; 52 ft SW. of RR. crossing post; 23.6 ft SW. of centerline of grade crossing in concrete post; NGS standard reference mark disk stamped "VANDER 1933" (Azi. Mark) RESET DESTROYED 1985 148.887

Reference mark; 66 ft in azimuth 148°18' from station; 66.2 ft from station 148°18'; 3 ft E. of NW. corner of garage which has been built on line between station and mark, in concrete; NGS standard reference mark "VANDER 1918" RESET 1985 150.403

FAYETTEVILLE QUADRANGLE
Book V 262

72 NORTH CAROLINA

R. L. Beitle

35-078-33
9

1946

LINE 9.

Feet

By R. L. Beitle, 1946; Book V 262

Fenix, 2.0 mi E. of along U. S. Highway 15A, 100 ft S. and 23 ft E. of junction of hwy. and dirt rd.
rd. S., 3 ft W. of large billboard, in concrete post; standard tablet stamped "48 RLB 1946 197"

350792
197.122

Reference mark; 83 ft SW. of tablet; 143 ft S. and 30 ft E. of rd. junction; on top of hwy. right
right-of-way post; chiseled U

448

200.82

LINE 10

By J. J. Spahr, 1951; Book AV 274

38 64 0.00 "TT 21 WAC 1946 145" (Described in line 8)

145.357

NGVD 29
Elevations