

UNITED STATES DEPARTMENT OF THE INTERIOR
Harold L. Ickes, Secretary
GEOLOGICAL SURVEY
W. C. Mendenhall, Director

14

Bulletin 898

SPIRIT LEVELING IN MISSOURI

1896-1938

J. G. STAACK
Chief Topographic Engineer

Prepared in cooperation with the
STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
H. A. Buehler, Director



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Bulletin 898-A

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PART 1. SOUTHEASTERN MISSOURI

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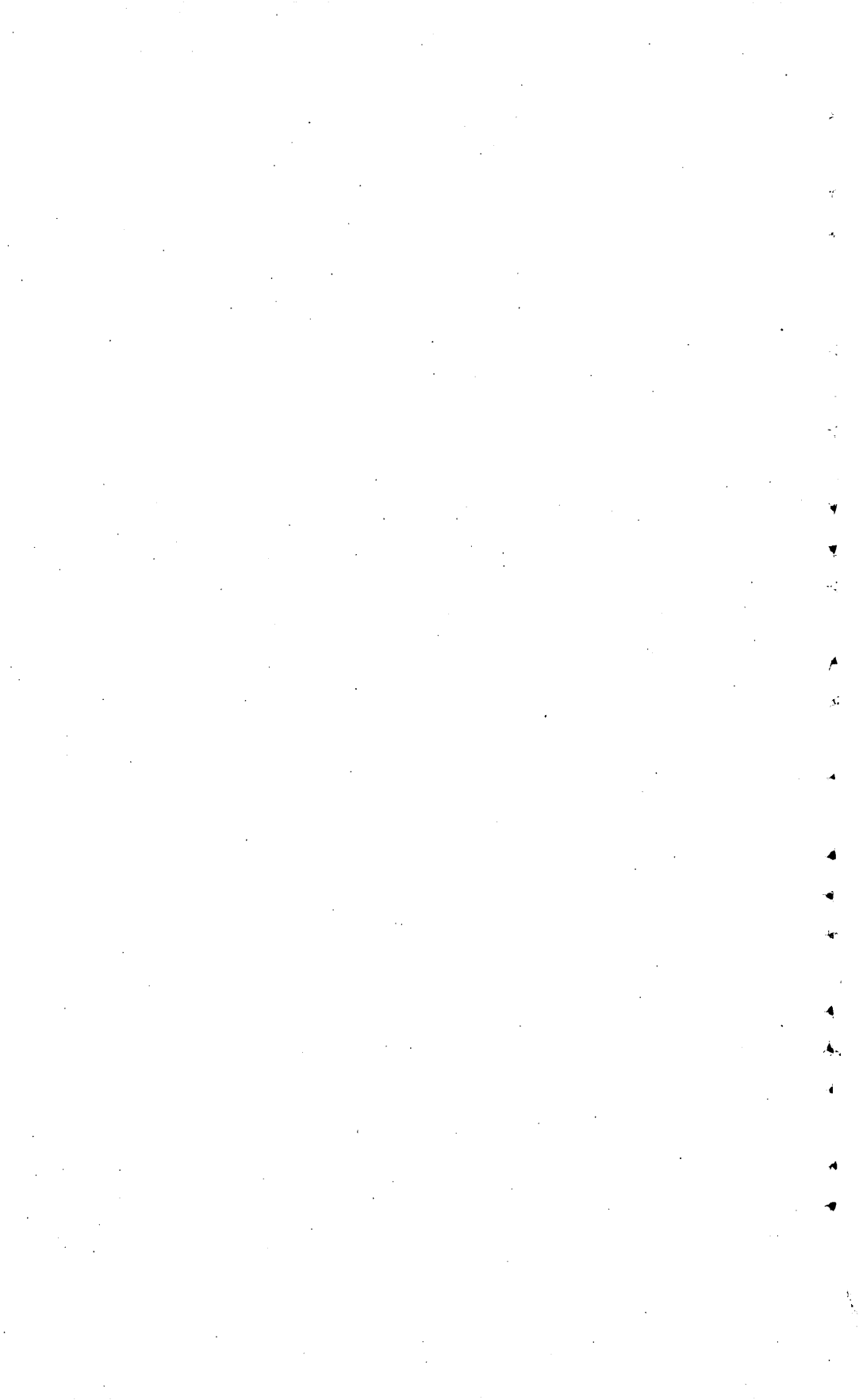
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SPIRIT LEVELING IN MISSOURI

PART 1. SOUTHEASTERN MISSOURI, 1896-1937

J. G. Staack, Chief Topographic Engineer

INTRODUCTION

Scope of report.—This bulletin, which for convenience is to be published in eight parts, contains the results of all spirit leveling done by the United States Geological Survey in Missouri, including those heretofore published.* Each of the parts deals with one of eight sections into which the State has been divided for this purpose and which have been designated northeastern, northwestern, southeastern, southwestern, central, east-central, south-central, and west-central Missouri. In each part descriptions of the points for which figures of elevation have been determined are listed according to the quadrangles in which the points occur. Results of spirit leveling other than that done by the United States Geological Survey have not been included.

Cooperation.—The State has contributed financially to the work of leveling in Missouri since 1907, ordinarily cooperating with the United States Geological Survey on a dollar-for-dollar basis. The agencies concerned in this cooperation are the Missouri Geological Survey and Water Resources and, since 1929, the Missouri State Highway Commission. Since 1934, the Missouri Geological Survey and Water Resources, under allotments from the Federal Emergency Relief Administration and the Works Progress Administration, has also supplied the funds to pay the personnel working on extensive projects of leveling in the State. For these projects the United States Geological Survey has furnished equipment and supervision as its share of the cooperation.

Classification of leveling.—Spirit leveling is classified according to the degree of refinement in the instruments and methods used and according to the closure errors.

First-order leveling** consists of leveling done with the most improved instruments, all sections being leveled twice, in opposite directions, under varying conditions. Closures are not allowed to exceed the amount in feet represented by the formula 0.017 times the square root of the length of section in miles.

Second-order leveling, according to regulations of the United States Geological Survey, comprises lines leveled twice with reliable instruments, though not necessarily of the most improved type. Closures are not allowed to exceed 0.035 times the square root of the length of section in miles.

Third-order leveling is made up of lines that are run, either with first-order equipment or with an engineer's wye level and rods of the New York type, in single-line circuits that are required to close within the limits of 0.05 times the square root of the

*For the results of spirit leveling in Missouri previously published see Triangulation and spirit leveling—Missouri: U.S. Geol. Survey 18th Ann. Rept., pt. 1, pp. 333-337, 1897; Triangulation and spirit leveling—Missouri-Illinois: U.S. Geol. Survey 20th Ann. Rept., pt. 1, pp. 412-413, 1899; Triangulation, primary traverse, and spirit leveling—Missouri: U.S. Geol. Survey 21st Ann. Rept., pt. 1, pp. 474-475, 1900; Results of spirit leveling, fiscal year 1900-1901—Missouri, Missouri-Kansas: U.S. Geol. Survey Bull. 185, pp. 107-113, 1901; Results of spirit leveling in Missouri, 1896 to 1919, inclusive: U.S. Geol. Survey Bull. 459, 48 pp., 1911; Results of spirit leveling in Missouri, 1896 to 1911, inclusive: U.S. Geol. Survey Bull. 568, 219 pp., 1915.

**See Avers, H.G., Manual of first-order leveling; U.S. Coast and Geodetic Survey Special Pub. 140, 1929.

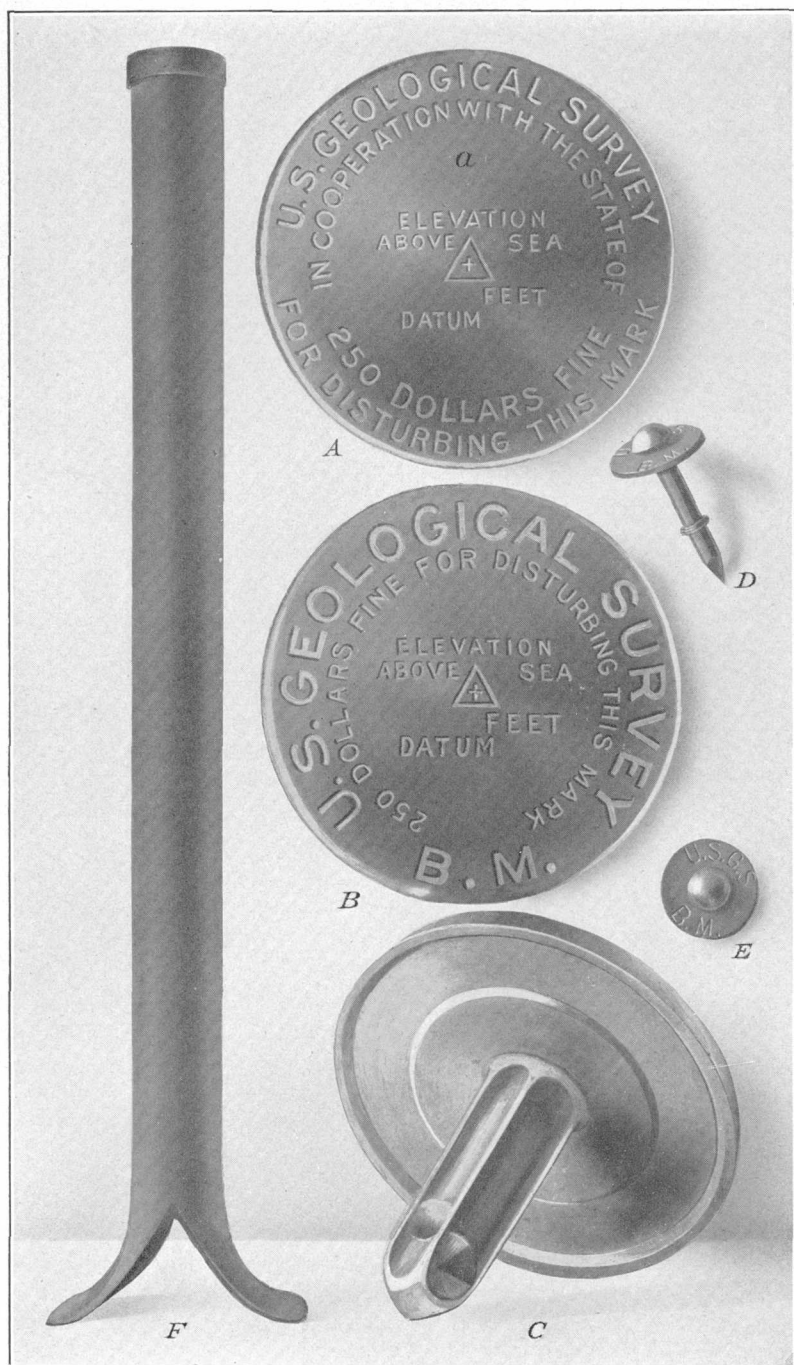
length of circuit in miles. This is equivalent to 0.071 times the square root of the length of section in miles if the line is leveled twice.

All leveling done by the United States Geological Survey in Missouri is of third-order accuracy except as otherwise stated.

Adjustments.—A preliminary step to the adjustment of first, second, and third-order leveling is the application of all corrections for rod error, temperature, and unbalanced sights, as well as the orthometric corrections required because of the convergence toward the poles of level surfaces of different elevations. The adjustment of a net of leveling begins with the first-order lines. Most of these lines in both the United States and Canada have already been combined in a general net and adjusted to remove accidental closure errors by the mathematical method known as least squares. The latest adjustment of this kind was made in 1929 by the United States Coast and Geodetic Survey and is known as the "1929 general adjustment of first-order leveling." This adjustment included the first-order lines in Missouri, and the elevations thus derived are the fundamental references for elevations determined by second- and third-order nets. The third-order leveling of the United States Geological Survey in Missouri has been adjusted by determining weighted mean elevations for new junction points and prorating the errors of each link. The weights are taken as the reciprocals of lengths of links. The third-order net has thus been brought into agreement with the best information available for the results of the fundamental first-order leveling, although the published figures of elevation may be changed slightly by future adjustments of the level net.

Benchmarks.—The benchmarks used by the United States Geological Survey (pl. 1) are of two general classes—principal and supplementary. Principal benchmarks are placed at more or less regular intervals along a level line and are established with the aim of making them as nearly permanent as practicable. They are usually bronze or aluminum tablets, iron posts, or copper bolts. Supplementary or auxiliary benchmarks are less formal in design and are placed between the principal benchmarks. Some of the supplementary benchmarks in common use are copper nails fitted with washers, spikes, and marks cut with a chisel on rock or masonry.

The tablets are circular in shape, measure $3\frac{7}{8}$ inches in diameter, and taper from a thickness of three-eighths of an inch at the center to about a quarter of an inch near the rounded edge. During a short period in the earlier years of the Survey's leveling the tablets set were made of aluminum. The softness of this metal, however, made them susceptible to damage, so that aluminum as a material for tablets was soon discarded. The earliest tablets set and those now being placed are made of bronze, and bronze is the material now specified for standard tablets. Each tablet is cast with a 3-inch shank extending from the center of its reverse side, by means of which it is cemented in place, and each bears an inscription on its face. The inscriptions on the tablets already placed differ in many details, because of changes in design at various times. The face of every tablet, however, is cast with the words "U.S. Geological Survey", a cross at the center, which indicates the fiducial point for position or elevation, and the words "Elevation above sea." On some tablets the inscription indicates that they were set in connection with a project in which a State or other organization cooperated; on some the inscription includes a triangle, which signifies a located point, enclosing the cross at the center. Tablets bearing a triangle enclosing a cross may be used not only as benchmarks but also as triangulation- or traverse-station marks.



GEOLOGICAL SURVEY BENCHMARKS.

A and B, Standard tablets, principal benchmarks, used where masonry or rock is available to hold them. A is used in cooperating States; the State name is inserted at *a*. C, Under side of A and B, showing shank used to hold tablet in place. D and E, Two views of copper nail and copper washer, a supplementary benchmark, used for points lying between those marked by standard tablets. F, Standard iron post fitted with bronze cap similar in design to the standard tablet, formerly used where no rock or masonry was available; superseded by concrete post with tablet set in top.

The inscription on most of the tablets already set includes the warning "250 dollars fine for disturbing this mark", but the latest design omits this phrase and adds the sentence "For information write the Director, Washington, D.C."

If the tablet is to mark a transit-traverse station the traverseman stamps it with letters indicating this use of it, such as "Prim. Trav. Sta.", "P.T.S.", or "T.T.", as well as his own identifying letter or letters, the serial number of the station, and the year, using steel dies. If the tablet is set as a benchmark, the levelman stamps it with his identifying letter or letters, the serial number, and the year. He may at the same time stamp upon it with steel dies the figures of elevation to the nearest foot, or these figures may be added later. Tablets that serve as benchmarks may have been set as such or they may have been set to mark traverse stations. Thus some of them serve a dual purpose, but each has stamped upon it the date and the identifying designation of only the engineer who established it.

The figures of elevation that appear on a tablet are usually those determined by field computation only. It is sometimes found, therefore, that they do not represent the latest information. This has happened either because they refer to some independent datum temporarily adopted before first-order trunk lines made standard datum available, or because a later adjustment made in the office has rendered necessary an appreciable change in the figures as determined in the field. It is assumed that engineers and others who require accurate figures of elevation for the marks will use those printed in a bulletin such as this one, instead of accepting the stamped figures. If the appropriate bulletin is not conveniently accessible, a request for the desired information may be addressed to the Director of the United States Geological Survey, Washington, D.C.

The tablets, of whatever style, are cemented into holes drilled in solid rocks or in the walls of public buildings, bridge abutments, or other masonry structures. Where masonry or rock is not available, the tablets are set in the tops of reinforced concrete posts, which may be either precast or mixed and molded at the selected site. The posts are about 8 inches square or 8 inches in diameter at the top and larger at the base. They vary in length from 36 to 48 inches and are generally set so as to project about 6 inches above ground.

Antedating the concrete posts which are now constructed to hold the tablets, in places where masonry or rock is not available, are wrought-iron posts, to the tops of which are riveted bronze caps of similar design to the tablets. These iron posts measure 4 feet in length and $3\frac{1}{2}$ inches in outer diameter and are set about 3 feet in the ground. The bottom of the post spreads out to a width of about 10 inches in order to give it a firm footing in the earth. No iron posts have been set in recent years. They have proved impracticable, as they are easily disturbed and are subject to rust at the ground level, which eventually destroys them.

The third form of principal benchmark, set only in the early leveling, is a copper bolt, designed to be wedged into a drill hole in rock or masonry and perhaps further secured with lead or cement. This bolt measures 4 inches in length and 1 inch in diameter and has a slot at one end into which fits a brass wedge. The wedge serves to expand the bottom end of the bolt, so that after the bolt has been driven to almost its full length into the hole, it cannot be easily removed. The exposed end of the bolt bears an appropriate inscription, stamped upon it with steel dies. This inscription is

made up of the letters "U S G S", the letters indicating the datum used, the abbreviated word "Ft.", and the figures of elevation.

Supplementary benchmarks are of many kinds. One kind consists of a copper nail $1\frac{1}{2}$ inches long supplied with a copper washer seven-eighths of an inch in diameter, through which the nail is driven into the root of a tree or some timber structure or cemented into rock after bending the point. The designation "U S G S B M" is stamped on each washer, and on some washers the abbreviation of the name of the cooperating State is added. Another kind of supplementary benchmark is a chiseled square, used on the horizontal surface of rocks or masonry structures, or a chiseled cross, used on a vertical surface. Nails, track spikes, and small capped iron pipes also serve as supplementary benchmarks, and occasionally easily described and recognized points, such as doorsills and tops of hydrants are so used.

Preservation and restoration of benchmarks.—Any person who finds that a principal benchmark has been damaged, disturbed, or destroyed or that it should be reset or re-described on account of highway or other improvements will render a public service by communicating the facts to the Director, United States Geological Survey, Washington, D.C., before taking any action affecting the location or elevation of the mark. A proper form, accompanied by a return-addressed, franked envelope, will be sent for use in reporting the action taken and in recording the revised description of the mark, if any, and the notes made in obtaining the revised elevation.

Datum.—All elevations determined by the United States Geological Survey and those determined by the United States Coast and Geodetic Survey for inland mapping are referred to mean sea level, which is the level that the sea would assume if the influence of winds, tides, and currents were eliminated. This level is not the elevation determined from the mean of the highest and lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. Mean sea level is the average height of the water, all stages of the tide being considered. It is determined from observations made by means of tidal gages placed at stations where local conditions, such as those due to long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations made in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.*

Location of the area.—Southeastern Missouri, as the term is used in this bulletin and as the subject of part 1 of the bulletin is that section of the State lying south of latitude 38° and east of longitude $91^{\circ}15'$. (See fig. 1.)

Index map.—The accompanying index map of southeastern Missouri (fig. 2) shows the relative position of the quadrangle areas which make up this section. A quadrangle is the unit of topographic survey adopted by the United States Geological Survey for dividing the area of the United States. All the quadrangles in southeastern Missouri measure 15 minutes in latitude by 15 minutes in longitude. With the name of each

*See Jones, E.L., *Hypsometry*—Use of mean sea level as the datum for elevations: U.S. Coast and Geodetic Survey Special Pub. 141, 1917. Manual of tide observations: U.S. Coast and Geodetic Survey Special Pub. 196, 1935.

quadrangle, as shown on the map, is given the number of the page in this bulletin on which begins the list of descriptions of benchmarks in that quadrangle.

Maps of many of the quadrangles in southeastern Missouri may be purchased at 10 cents each retail or 6 cents each in lots of 50 or more. Prepayment is required and may be made by money order, payable to the Director of the United States Geological Survey, or in cash--the exact amount, at sender's risk. Postage stamps should not be sent.

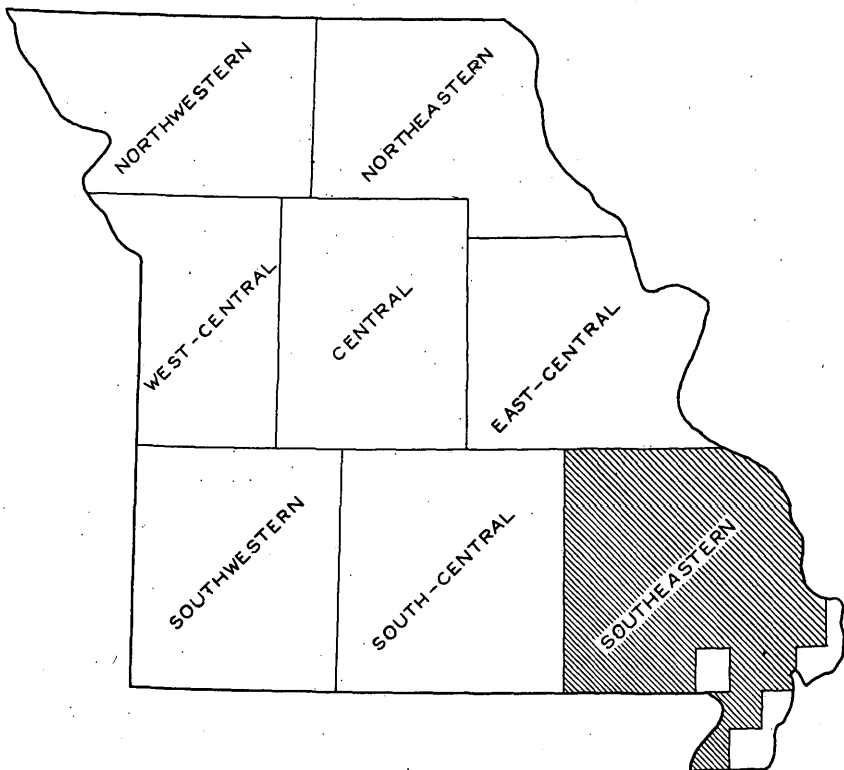


Figure 1.—Outline map of Missouri showing the names and relative position of the eight sections covered by the parts of Bulletin 898, on spirit leveling in the State. The shaded portion represents the section designated as southeastern Missouri, and the white areas within this portion represent tracts where no leveling has been done by the United States Geological Survey.

Diagrams of quadrangles showing routes of leveling.—At the beginning of the list of benchmark descriptions for each quadrangle is a diagram showing the routes followed by the lines of leveling in and immediately adjacent to that quadrangle. To aid in identifying these routes, the boundaries of the townships and ranges in the quadrangle are indicated by light dashed lines, and the designations of these land subdivisions are given on the margin. The principal settlements are also shown. The solid lines represent the routes of the third-order leveling of the United States Geological Survey. To each of these is assigned a number, and the same number is assigned to the list of descriptions of benchmarks along that route. The heavy dashed lines represent the first-order leveling of the United States Coast and Geodetic Survey.

Personnel.—The leveling of the United States Geological Survey in southeastern Missouri was done under the supervision of the several chief geographers or chief topographic engineers who were in administrative charge of the topographic branch during the years when the lines were run. Included in the heading that precedes the descriptions of benchmarks established along any line of leveling are the name of the levelman who ran that line and the date when it was run, or, if this information has been omitted, it may be assumed that the levelman and date are the same as those indicated for the line immediately preceding. The adjustment of the third-order level net was done

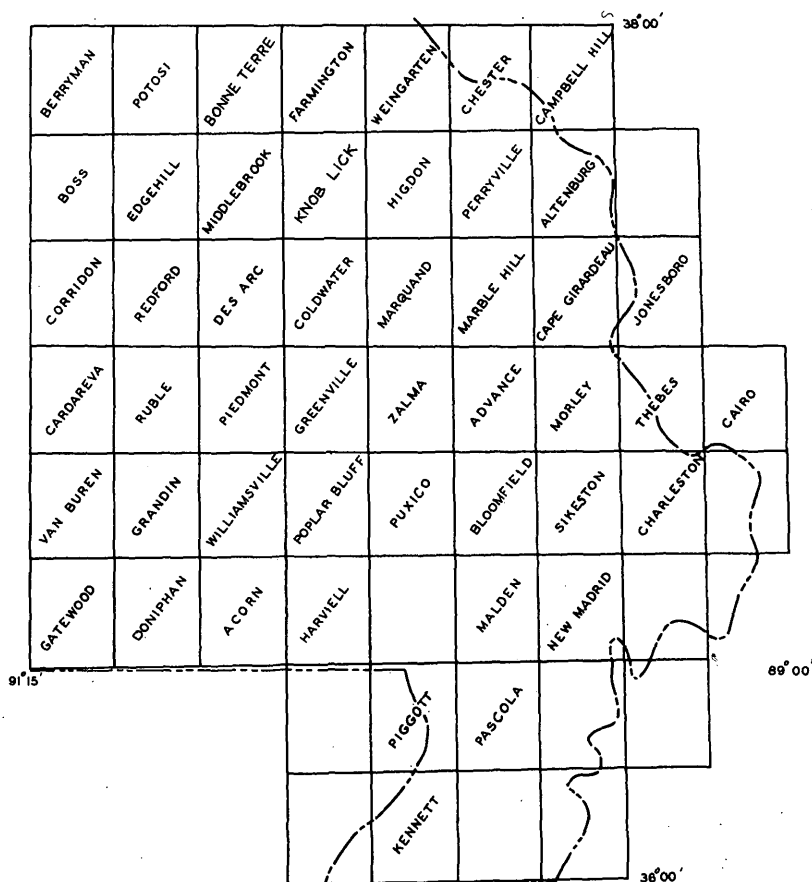


Figure 2.—Index map of southeastern Missouri showing the quadrangles into which this section of the State has been divided. No leveling has been done by the United States Geological Survey in those quadrangles in which no name appears.

in the Washington office mainly by Clarence Norris, computer. The revision, correlation, and compilation of the descriptions of benchmarks was done in the field office at Rolla, Mo., by employees of the Works Progress Administration of Missouri, who also assembled the lists and made new typewritten copies of them suitable for reproduction by photography. The work at Rolla was sponsored by the Missouri Geological Survey and Water Resources and supervised by W. R. Broadus, of the United States Geological Survey. The entire work involved was under the general supervision of R. M. Wilson, chief of the section of computing, under the general direction of J. G. Staack, chief topographic engineer.

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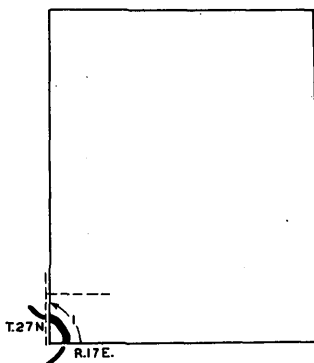
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THIRD-ORDER LEVELING

CAIRO QUADRANGLE**
(Latitude $37^{\circ}-37^{\circ}15'$; longitude $89^{\circ}-89^{\circ}15'$)

Mississippi County

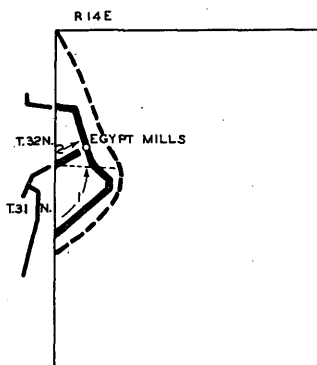


1. IN SOUTHWEST CORNER OF QUADRANGLE, NORTH AND WEST TO WEST BORDER (by H. P. Jones in 1931)
(Line continued from Wickliffe quadrangle but last benchmark established is given in Charleston quadrangle, see line no. 1.)
- | | <u>Feet</u> |
|---|-------------|
| T. 27 N., R. 17 E., in $W\frac{1}{2}$ sec. 8, on top of levee, at milepost 26, leaded in top of concrete post; copper bolt | 332.910 |
| T. 27 N., R. 17 E., in $SW\frac{1}{4}$ sec. 5, in NE. piling of wooden retaining-wall of bridge over Big Lake Bayou; copper nail and washer | 314.26 |

(Continued in Thebes quadrangle; see line no. 5.)

JONESBORO QUADRANGLE**
(Latitude $37^{\circ}15'-37^{\circ}30'$; longitude $89^{\circ}15'-89^{\circ}30'$)

Cape Girardeau County



1. IN WEST PART OF QUADRANGLE (by R. T. Gale in 1921)

	<u>Feet</u>
Cape Girardeau, 3.5 mi. NE. of, along rd. to Egypt Mills, in $SE\frac{1}{4}$ sec. 21, T. 31 N., R. 14 E., in E. wing wall of concrete culvert; chiseled square	340.65
Cape Girardeau, 4 mi. NE. of, along rd. to Egypt Mills, in $W\frac{1}{2}$ sec. 22, T. 31 N., R. 14 E., on W. side of rd., 50 ft. from bed of creek, 2 ft. SW. of W. E. Whittaker's mail box, in root of 30-in. oak tree; copper nail and washer	356.71
Cape Girardeau, 5 mi. NE. of, along rd. to Egypt Mills, in $NW\frac{1}{4}$ sec. 22, T. 31 N., R. 14 E., in SE. end of concrete wing wall of iron bridge; chiseled square	352.94
Cape Girardeau, 6 mi. NE. of, along rd. to Egypt Mills, near N. quarter cor. sec. 14, T. 31 N., R. 14 E., SW. of T-rd. W., in root on S. side of 36-in. elm tree; copper nail and washer	346.50
Cape Girardeau, 6.5 mi. NE. of, along rd. to Egypt Mills, in $SW\frac{1}{4}$ sec. 12, T. 31 N., R. 14 E., 20 ft. SW. of rd. fork E., 10 ft. S. of two mail boxes; iron post stamped "U S G S Mo 347"	346.642

* Part of this quadrangle lies in Illinois and part in Kentucky.

** Part of this quadrangle lies in Illinois.

SPIRIT LEVELING IN MISSOURI

Egypt Mills, 2.5 mi. SE. of, along rd. to Cape Girardeau, in NE $\frac{1}{4}$ sec. 12, T. 31 N., R. 14 E., 20 ft. S. of T-rd. W., in root of tree about 2 in. underground; copper nail and washer	342.30
Egypt Mills, 0.5 mi. S. of, along rd. to Cape Girardeau, N. of T-rd. S., in root of small tree; copper nail and washer	365.95
Egypt Mills, 800 ft. N. of post office, 120 ft. W. of schoolhouse, on E. side of rd., 1 ft. S. of E.-W. fence; iron post stamped "U S G S 1921 Mo 376"	375.822
Egypt Mills, 0.8 mi. NW. of, along rd. to Iona School, near NE. cor. sec. 34, T. 32 N., R. 14 W., S. of T-rd. SW., in root of 48-in. cottonwood tree; copper nail and washer	389.26
Egypt Mills, 2 mi. NW. of, along rd. to Iona School, about 0.4 mi. N. of center sec. 27, T. 32 N., R. 14 E., in NE. concrete wing wall of bridge; chiseled square	426.10
Egypt Mills, 2.5 mi. NW. of, along Greens Ferry Road, in SW $\frac{1}{4}$ sec. 22, T. 32 N., R. 14 E., on S. side of T-rd. E., 5 ft. E. of telephone pole, at edge of fence line; iron post stamped "1921 Mo 446"	445.657
Egypt Mills, 2.8 mi. NW. of, along Greens Ferry Road, in W $\frac{1}{2}$ sec. 22, T. 32 N., R. 14 W., S. of T-rd. N., in root of 30-in. elm tree; copper nail and washer	449.90
Egypt Mills, 3.2 mi. NW. of, along Greens Ferry Road, about 0.2 mi. N. of center sec. 21, T. 32 N., R. 14 E., about 900 ft. W. of large house, on N. side of rd., at SW. corner of small bridge, in iron; chiseled square	485.50

(Continued in Cape Girardeau quadrangle; see line no. 9.)

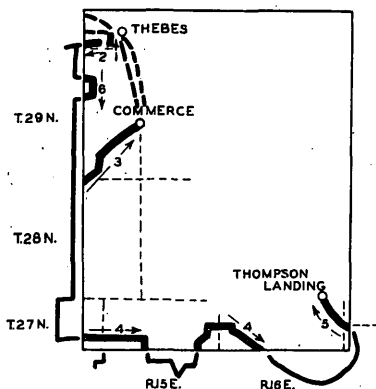
2. FROM WEST BORDER OF QUADRANGLE EAST TO EGYPT MILLS
(Continued from Cape Girardeau quadrangle; see line no. 10.)

Egypt Mills, about 2.1 mi. W. of, about 0.2 mi. SE. of center sec. 33, T. 32 N., R. 14 E., 100 ft. NW. of rd. forks, between rd. and creek, in root on NE. side of 24-in. sycamore tree; copper nail and washer	457.28
Egypt Mills, 1.3 mi. W. of, 250 ft. E. of rd. fork N. 30 ft. W. of creek, in root on SW. side of large elm tree; copper nail and washer	413.08

For an additional level line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, St. Louis, Mo.; to Cairo, Ill.

THEBES QUADRANGLE*
(Latitude 37°-37°15'; longitude 89°15'-89°30')

Mississippi and Scott Counties



1. ON WEST BANK OF MISSISSIPPI RIVER OPPOSITE THEBES, ILLINOIS (by S. R. Archer in 1927 and H. P. Jones in 1931)

Thebes, Ill., at W. end of W. concrete approach to R. R. bridge over Mississippi River, on S. side, in top of NW. corner of concrete base of square end post of guardwall; chiseled square	Feet 410.33
Thebes bridge, 100 meters (328 ft.) N. of, almost on line with tangent of St. Louis-San Francisco R. R., 110 meters (361 ft.) W. of Mississippi River, 20 meters (66 ft.) E. of rd. at E. edge of R. R. right-of-way; tile and iron pipe (U. S. C. E. B. M. designated "10/3")	341.961
Reference mark, 20 ft. S. of pipe, on W. side of R. R., in ditch, top of lime-stone outcrop; chiseled square	348.46

* Part of this quadrangle lies in Illinois.

2. FROM THEBES BRIDGE WEST ALONG MISSOURI PACIFIC R. R. AND ST. LOUIS SOUTHWESTERN R. R. TO WEST BORDER OF QUADRANGLE (by H. P. Jones in 1931)

Thebes bridge, 0.5 mi. W. of, 1.2 mi. E. of Illmo, along Missouri Pacific R. R. on N. side of tracks, in top of concrete head wall at center of R. R. bridge over rd.; chiseled square 405.92
 Illmo, 0.7 mi. E. of, 1.5 mi. W. of Thebes bridge, along St. Louis Southwestern R. R., SW. of rd. crossing, in NE. corner of concrete base of signal; chiseled square 388.40

(Continued in Morley quadrangle; see line no. 4.)

3. FROM WEST BORDER OF QUADRANGLE NORTHEAST TO COMMERCE

Commerce, about 4 mi. SW. of, in NW $\frac{1}{4}$ sec. 3, T. 28 N., R. 14 E., on N. side of rd. at corner from W. to N., in root of 36-in. oak tree; copper nail and washer 333.97
 Commerce, about 2.5 mi. SW. of, near cor. secs. 26, 27, 34, and 35, T. 29 N., R. 14 E., about 200 ft. E. of farmhouse, in N. end of E. concrete abutment of bridge; chiseled square 370.80
 Commerce, about 1.5 mi. SW. of, in SE $\frac{1}{4}$ sec. 26, T. 29 N., R. 14 E., 110 ft. E. of rd. fork NW., in front yard of house, in root of 38-in. oak tree; copper nail and washer 389.08
 Commerce, 0.8 mi. W. of, near rd. fork S., on S. side of 32-in. beech tree; copper nail and washer 378.13
 Commerce, in SW. corner of yard of public school, on E. side, at end of concrete sidewalk; chiseled square 340.04
 Commerce, 1200 meters (3,936 ft.) above, on right bank of Mississippi River, on slope of bluff at edge of timber; flat stone and iron pipe (U. S. C. E. B. M. designated "9/3") 348.206
 Pipe 343.101
 Stone

4. EAST ALONG SOUTH BORDER OF QUADRANGLE
(Continued from Morley quadrangle; see line no. 8.)

Blodgett, 2.5 mi. E. of, 50 ft. N. and 13 ft. E. of T-rd. E. at W. cor. secs. 6 and 7, T. 27 N., R. 15 E., 13 ft. E. of T-rd. W. at E. cor. secs. 1 and 12, T. 27 N., R. 14 E., in concrete post; standard tablet stamped "T T 10 E 1931" 321.230
 Reference mark, on S. side of rd., 40 ft. SE. of mail boxes, in root of 20-in. oak tree; copper nail and washer 322.32
 T. 27 N., R. 15 E., cor. secs. 5, 6, 7, and 8, 125 ft. E. of T-rd. S., on S. side of rd., in fence line, in root of 32-in. oak tree; copper nail and washer 322.00
 T. 27 N., R. 15 E., cor. secs. 4, 5, 8, and 9, 30 ft. NW. of State Highway 55, at rd. W., in steel I beam of low culvert; chiseled square 329.87

(For balance in Charleston quadrangle, see line no. 1.)

T. 27 N., R. 15 E., in SW $\frac{1}{4}$ sec. 1, 100 ft. N. of rd. forks, on W. side of rd., 2 ft. S. of mail boxes in front of house, in root of 28-in. elm tree; copper nail and washer 327.13
 Luak School, near center sec. 1, T. 27 N., R. 15 E., in E. part of schoolyard, in end of concrete sidewalk; chiseled square 326.84
 Luak Chapel, in NE $\frac{1}{4}$ sec. 1, T. 27 N., R. 15 E., 550 ft. SW. of rd. fork E., 1 ft. E. of SE. corner of chapel, in concrete post; standard tablet stamped "T T 22 E 1931" 324.237
 Price Landing, 900 meters (2,952 ft.) southward from, 1,200 meters (3,936 ft.) back (westward) from Elkins Landing, in NW. corner of Joseph Moore's field, 125 meters (410 ft.) toward river from church, 20 meters (66 ft.) from fence corner, 3 meters (10 ft.) E. of fence on E. side of rd.; flat stone and iron pipe (U. S. C. E. B. M. designated "6/4") 326.953
 Cap 321.871
 Stone
 T. 27 N., R. 16 E., about 0.3 mi. N. of center sec. 6, in front yard of F. L. Middleton's house, in root of 14-in. elm tree; copper nail and washer 324.76
 T. 27 N., R. 16 E., in SE $\frac{1}{4}$ sec. 6, 100 ft. S. of rd. forks, on W. side of rd., inside fence, in root of 36-in. oak tree; copper nail and washer 325.42
 T. 27 N., R. 16 E., near quarter cor. between secs. 5 and 8, on Mississippi-Scott county line, 31 ft. S. of rd., 13 ft. S. and 2 ft. W. of corner fence post, in concrete post; standard tablet stamped "T T 23 E 1931" 324.924

(Continued in Charleston quadrangle; see line no. 1.)

5. IN SOUTHEAST CORNER OF QUADRANGLE FROM EAST BORDER NORTHWEST TO THOMPSON LANDING
(Continued from Cairo quadrangle; see line no. 1.)

Thompson Landing, 1 mi. below, on top of levee below Necums, 0.2 mi. back of Thompson Cemetery, 290 meters (951 ft.) from Mississippi River bank; iron pipe (U. S. C. E. B. M. designated triangulation "Dusky") 321.203
 Thompson Landing, 0.8 mi. below, 870 meters (2,854 ft.) from Mississippi River bank, 500 meters (1,640 ft.) N. from rd. leading to river, on top of ridge at edge of willows around Ash Pond, near foot of inner slope of levee, at E. edge of cultivated field; flat stone and iron pipe (U. S. C. E. B. M. designated "3/4") 321.746
 Cap 316.701
 Stone

SPIRIT LEVELING IN MISSOURI

6. IN MIDDLE OF NORTH HALF OF WEST BORDER OF QUADRANGLE
(Continued from Morley quadrangle; see line no. 4.)

Illmo, 1.5 mi. S. of, in W $\frac{1}{2}$ sec. 10, T. 29 N., R. 14 E., 40 ft. E. of T-rd. W.,
in root on W. side of 18-in. oak tree; copper nail and washer

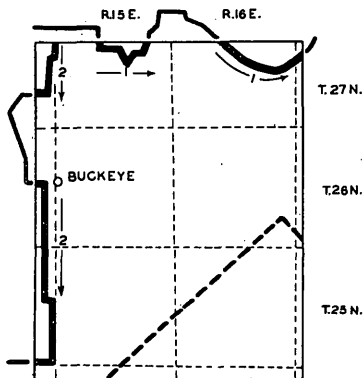
(Continued in Morley quadrangle; see line no. 4.)

481.44

For additional level lines south along Mississippi River to Commerce, refer to
United States Coast and Geodetic Survey first-order lines; St. Louis, Mo., to
Cairo, Ill., and Cape Girardeau, Mo., to Hoxie, Ark.

CHARLESTON QUADRANGLE
(Latitude 36°45'-37°; longitude 89°15'-89°30')

Mississippi, New Madrid, and Scott Counties

1. EAST ALONG NORTH BORDER OF QUADRANGLE (by H. P. Jones in 1931)
(Continued from Thebes quadrangle; see line no. 4.)

	Feet
T. 27 N., R. 15 E., 440 ft. N. of cor. secs. 8, 9, 16, and 17, 110 ft. S. and 30 ft. W. of junction of State Highway 55 and rd. E., in concrete post; standard tablet stamped "T T 20 E 1931"	325.720
T. 27 N., R. 15 E., about 0.2 mi. S. of N. cor. secs. 15 and 16, on SW. side of rd., at curve in State Highway 55 to S., in root of 28-in. oak tree; copper nail and washer	320.33
T. 27 N., R. 15 E., about 0.2 mi. S. of N. quarter cor. sec. 15, at T-rd. W., in center of intersection, in root of 50-in. oak tree; copper nail and washer	324.88
T. 27 N., R. 15 E., about 0.2 mi. N. of S. quarter cor. sec. 15, 30 ft. SE. of T-rd. E., in root of 30-in. oak tree; copper nail and washer	325.85
T. 27 N., R. 15 E., about 0.2 mi. N. of S. cor. secs. 14 and 15, 190 ft. S. of rd. corner from W. to S., on E. side of rd., 1 ft. E. of fence, in root of 20-in. oak tree; copper nail and washer	327.01
T. 27 N., R. 15 E., about 860 ft. W. of quarter cor. between secs. 13 and 14, 40 ft. W. of Charleston-Commerce road at lane E., 2 ft. N. and 12 ft. W. of fence corner, in SE. corner of Jacob Jeffries' yard, in concrete post; standard tablet stamped "T T 21 E 1931"	327.416
T. 27 N., R. 15 E., in SE $\frac{1}{4}$ sec. 11, 70 ft. SW. of T-rd. W., inside of fence, in root of 36-in. oak tree; copper nail and washer	326.61

(For balance in Thebes quadrangle, see line no. 4.)

T. 27 N., R. 16 E., in SW $\frac{1}{4}$ sec. 9, on top of levee, at milepost between mi. 19 and 20, on bottom stone; highest point	333.19
T. 27 N., R. 16 E., in NW $\frac{1}{4}$ sec. 15, on top of levee, at milepost between mi. 20 and 21, on bottom stone; highest point	332.86
T. 27 N., R. 16 E., about 0.4 mi. N. of cor. secs. 14, 15, 22, and 23, 52 ft. S. and 20 ft. E. of old T-rd. S., 2 ft. N. and 10 ft. E. of corner post, in concrete post; standard tablet stamped "T T 24 E 1931"	323.321
T. 27 N., R. 16 E., in SE $\frac{1}{4}$ sec. 14, on top of levee, at milepost between mi. 22 and 23, on bottom stone; highest point	334.49
T. 27 N., R. 16 E., in SE $\frac{1}{4}$ sec. 13, on top of levee, at milepost between mi. 23 and 24; top of iron pipe	334.12
T. 27 N., R. 17 E., in NE $\frac{1}{4}$ sec. 18, on top of levee, at milepost between mi. 24 and 25, leaded in top of concrete post; copper bolt	335.569
Charleston, about 6.5 mi. NE. of, along Big Lake road, 12.8 meters (42 ft.) E. of E. side of Big Lake School, 16.1 meters (53 ft.) S. of concrete rd., in concrete post; standard U. S. C. & G. S. tablet stamped "Big Lake"	322.896
Reference mark no. 1, 75 ft. E. of driveway, 44 ft. S. of concrete highway, at S. fence line, in concrete post; standard U. S. C. & G. S. reference mark tablet	321.422

T. 27 N., R. 17 E., in NE $\frac{1}{4}$ sec. 18, on top of levee, at milepost between mi. 24 and 25, leaded in top of concrete post; copper bolt 335.587

(Line continued in Wickliff quadrangle but next benchmark established is given in Cairo quadrangle; see line no. 1.)

2. SOUTH ALONG WEST BORDER OF QUADRANGLE

Blodgett, 2 mi. E. and 1 mi. S. of, near cor. secs. 7, 12, 13, and 18, T. 27 N., Rs. 14 and 15 E., in NW. corner of yard of house, in root of 40-in. oak tree; copper nail and washer 327.74
Blodgett, about 2.5 mi. SE. of, in SE $\frac{1}{4}$ sec. 13, T. 27 N., R. 14 E., 220 ft. S. of Missouri Pacific R. R., 0.5 mi. N. of White Oak Church, 25 ft. NW. of J. W. Lawson's mail box, in root of 12-in. hickory tree; copper nail and washer 325.96
T. 27 N., R. 14 E., in center of E $\frac{1}{2}$ sec. 24, 20 ft. N. and 21 ft. W. of T-rd. W., 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 9 E 1931" 316.677
Reference mark, at jog in rd. to W., in SE. concrete wing wall of wooden bridge over drainage ditch; chiseled square 317.29
T. 27 N., R. 14 E., 880 ft. E. of center sec. 25, 430 ft. W. of T-rd. N., on N. side of rd., in root of 36-in. tree; copper nail and washer 320.45

(For balance in Sikeston quadrangle, see line no. 1.)

Buckeye, about 800 ft. S. of N. quarter cor. sec. 13, T. 26 N., R. 14 E., S. of junction of U. S. Highway 60 and T-rd. S., in W. head wall of concrete culvert; chiseled square 311.02
T. 26 N., R. 14 E., about 0.2 mi. N. of S. quarter cor. sec. 13, on E. side of rd. opposite house, in root of 36-in. sycamore tree; copper nail and washer 313.47
Bement School, at quarter cor. between secs. 24 and 25, T. 26 N., R. 14 E., 40 ft. W. of rd., 27 ft. S. of large oak tree, 2 ft. N. of fence, in SE. corner of schoolyard, in concrete post; standard tablet stamped "T T 18 C 1931" 308.518
Reference mark, 80 ft. SE. of SE. corner of schoolhouse, in root of 36-in. oak tree; copper nail and washer 307.92
Bement School, 1 mi. S. of, near S. quarter cor. sec. 25, T. 26 N., R. 14 E., in fence line, 25 ft. E. and 50 ft. N. of crossroads, in top of stump of 5-in. catalpa tree; copper nail and washer 305.43
Tps. 25 and 26 N., R. 14 E., at quarter cor. between secs. 1 and 36, 2 mi. S. of Bement School, 20 ft. S. and 18 ft. E. of small bridge over drainage ditch, in concrete post; standard tablet stamped "T T 17 C 1931" 303.747
Reference mark, 135 ft. S. of house, in field, in root of lone oak tree; copper nail and washer 303.87
T. 25 N., R. 14 E., near S. quarter cor. sec. 1, 15 ft. N. and 80 ft. W. of crossroads, inside of fence, in root of 30-in. oak tree; copper nail and washer 301.52
T. 25 N., R. 14 E., near N. quarter cor. sec. 13, 10 ft. S. of T-rd. N., in root of 26-in. hackberry tree; copper nail and washer 301.15
T. 25 N., Rs. 14 and 15 E., near N. cor. secs. 13 and 18, 200 ft. SE. of rd. corner from W. to S., 15 ft. S. and 75 ft. E. of junction with private rd., in root of 18-in. oak tree; copper nail and washer 301.07
T. 25 N., Rs. 14 and 15 E., secs. 13, 18, 19, and 24, 25 ft. N. and 15 ft. W. of T-rd. W., at cor. of, in concrete post; standard tablet stamped "T T 16 C 1931" 300.037
Reference mark, 10 ft. E. of T-rd. W., in root of 24-in. oak tree; copper nail and washer 301.00
T. 25 N., Rs. 14 and 15 E., near cor. secs. 19, 24, 25, and 30, on W. side of T-rd. W., at wooden culvert, in NW. wing wall; copper nail and washer 299.06
T. 25 N., Rs. 14 and 15 E., near cor. secs. 25, 30, 31, and 36, on E. side of rd., 30 ft. N. of T-rd. W., in root of 28-in. sycamore tree; copper nail and washer 298.71
Matthews, 5.5 mi. E. of, along rd. to East Prairie, 25 ft. S. and 30 ft. W. of crossroads at cor. Tps. 24 and 25 N., Rs. 14 and 15 E., 15 ft. W. of large elm tree at entrance to rd. S., in concrete post; standard tablet stamped "T T 15 C 1931" 295.842
Reference mark, 10 ft. S. and 5 ft. W. of T-rd. N., in root of 36-in. oak tree; copper nail and washer 296.93

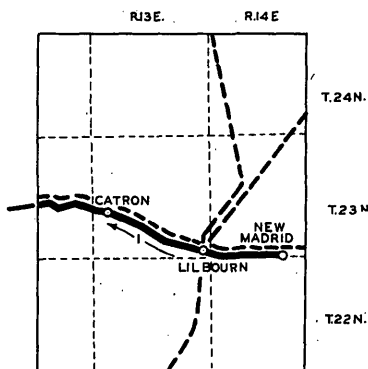
(Continued in Sikeston quadrangle; see line no. 2.)

For an additional level line along St. Louis Southwestern R. R. and Missouri Pacific R. R., refer to United States Coast and Geodetic Survey second-order line, 4.5 miles North of Lilbourn, Mo. to 4.5 miles West of Clinton, Ky.

SPIRIT LEVELING IN MISSOURI

NEW MADRID QUADRANGLE*
(Latitude $36^{\circ}30' - 36^{\circ}45'$; longitude $89^{\circ}30' - 89^{\circ}45'$)

New Madrid and Stoddard Counties



1. FROM NEW MADRID WEST ALONG ST. LOUIS SOUTHWESTERN R. R. TO WEST BORDER OF QUADRANGLE (by Leigh P. Townsend in 1908. Preliminary adjustment.)

	<u>Feet</u>
New Madrid, 25 ft. S. of St. Louis Southwestern R. R., on E. side of N.-S. street, in water stem to fire hydrant; bolt	298.385
New Madrid, 0.8 mi. W. of, along St. Louis Southwestern R. R., between tracks, in top of cornerstone chiseled "U. S."; copper bolt	299.259
New Madrid, 3.6 mi. W. of, along St. Louis Southwestern R. R., 45 ft. N. of track, 20 ft. E. of N.-S. rd., at NE. corner of T-rd., 2 ft. from corner post, inside fence; iron post stamped "301"	301.237
Lilbourn, E. of station, 3.5 ft. from R. R. crossing, at NE. corner of crossroads, in fence corner at SW. corner of field; iron post stamped "285"	284.866
Lilbourn, crossing of St. Louis-San Francisco R. R. and St. Louis Southwestern R. R.; top of rail	286.4
Lilbourn, 1 mi. W. of, along St. Louis Southwestern R. R., short distance E. of Boden, on N. side near middle of first R. R. bridge W. of Lilbourn; bolt	285.531
Lilbourn, 2.6 mi. W. of, along St. Louis Southwestern R. R., 10 ft. W. of milepost 39, 25 ft. S. of S. rail, in line with telegraph poles; iron post stamped "281"	280.509
Catron, on grounds of old sawmill, just outside of N. right-of-way of main track of St. Louis Southwestern R. R., SW. of grove of trees, W. of house; iron post stamped "282"	281.709

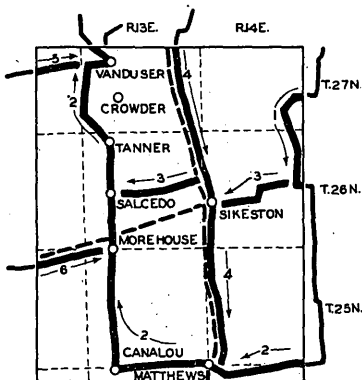
(Continued in Malden quadrangle; see line no. 1.)

For additional level lines along St. Louis Southwestern R. R. and St. Louis-San Francisco R. R., refer to United States Coast and Geodetic Survey second-order lines; 4.5 miles North of Lilbourn, Mo., to 4.5 miles West of Clinton, Ky., Sikeston to Lilbourn, Lilbourn to Naylor, Lilbourn, Mo., to Clinton, Ky., and Lilbourn, Mo. to Leachville, Ark.

* Part of this quadrangle lies in Kentucky.

SIKESTON QUADRANGLE
(latitude 36°45'-37°; longitude 89°30'-89°45')

Mississippi, New Madrid, Scott, and Stoddard Counties



1. SOUTH ALONG EAST BORDER OF QUADRANGLE (by H. P. Jones in 1931)
(Continued from Charleston quadrangle; see line no. 2.)

	Feet
T. 27 N., R. 14 E., 400 ft. W. of center sec. 26, at dim rd. fork SW., on S. side of rd., in root of 22-in. tree; copper nail and washer	317.59
T. 27 N., R. 14 E., 0.2 mi. E. of quarter cor. between secs. 34 and 35, 15 ft. N. and 16 ft. W. of crossroads, 3 ft. N. and 2 ft. E. of fence corner, in concrete post; standard tablet stamped "T 8 E 1931"	312.773
Reference mark, on E. side of rd., 30 ft. S. of mail boxes, in root of 18-in. cypress tree; copper nail and washer	313.08
T. 26 N., R. 14 E., 400 ft. N. of W. sixteenth cor. sec. 2, 400 ft. S. of house, on E. side of rd., in root of 30-in. elm tree; copper nail and washer	312.06
T. 26 N., R. 14 E., in SW $\frac{1}{4}$ sec. 2, 180 ft. N. of T-rd. N., on E. side of rd., in root of 16-in. oak tree; copper nail and washer	310.85
T. 26 N., R. 14 E., about 400 ft. W. of cor. secs. 1, 2, 11, and 12, in SE. concrete abutment of steel bridge; chiseled square	311.42
T. 26 N., R. 14 E., in NE $\frac{1}{4}$ sec. 14, 40 ft. N. and 54 ft. W. of T-rd. N., 40 ft. S. of Missouri Pacific R. R. at rd. crossing, 3 ft. NW. of telephone pole, in concrete post; standard tablet stamped "T 7 E 1931"	310.674
Reference mark, in SE. concrete abutment of steel bridge over North Cut drainage ditch; chiseled square	312.48

(Continued in Charleston quadrangle; see line no. 2.)

2. FROM EAST BORDER OF QUADRANGLE WEST ALONG SOUTH BORDER TO CANALOU, THENCE NORTH BY WAY OF MOREHOUSE TO VANDUSER AND NORTH BORDER
(Continued from Charleston quadrangle; see line no. 2.)

Matthews, about 4.5 mi. E. of, along rd. to East Prairie, about 900 ft. W. of N. cor. secs. 1 and 2, T. 24 N., R. 14 E., on S. side of rd., 50 ft. inside of fence, in root of 22-in. oak tree; copper nail and washer	294.62
Matthews, 3.5 mi. E. of, along rd. to East Prairie, 20 ft. S. and 22 ft. E. of T-rd. N. at S. cor. secs. 34 and 35, T. 25 N., R. 14 E., in concrete post; standard tablet stamped "T T 14 C 1931"	293.971
Reference mark, 30 ft. S. and 60 ft. W. of T-rd. N., in root of 24-in. willow tree; copper nail and washer	294.28
Matthews, about 2.6 mi. E. of, along rd. to East Prairie, near S. cor. secs. 33 and 34, T. 25 N., R. 14 E., on S. side of rd., in root of 60-in. oak tree; copper nail and washer	309.80
Matthews, about 2 mi. E. of, along rd. to East Prairie, about 0.3 mi. E. of S. cor. secs. 32 and 33, T. 25 N., R. 14 E., on S. side of rd., in root of 12-in. oak tree; copper nail and washer	307.41
Matthews, 1 mi. E. of, along rd. to East Prairie, 30 ft. S. and 45 ft. W. of U. S. Highway 61 at cross rd. 95 ft. S. of filling station, in concrete post; standard tablet stamped "T T 11 C 1931"	311.746
Reference mark, in S. end of concrete island of filling station; chiseled square	310.96
Matthews, on S. side of street, in lower step to sidewalk, 20 ft. NE. of entrance to general store building; chiseled square	312.92
Matthews, 0.4 mi. W. of general store; iron pipe stamped "R 5 C 49" (U. S. C. E. B. M.)	312.274
Matthews, about 0.4 mi. W. of, along rd. to Canalou, in SE. abutment of bridge; chiseled square	295.25
Matthews, about 1.2 mi. W. of, along rd. to Canalou, about 0.2 mi. E. of S. cor. secs. 35 and 36, T. 25 N., R. 13 E., in SW. abutment of bridge; chiseled square	291.74
Matthews, about 1.9 mi. W. of, along rd. to Canalou, near S. quarter cor. sec. 35, T. 25 N., R. 13 E., 45 ft. S. of T-rd. N., inside of fence, in root of 28-in. oak tree; copper nail and washer	291.64

* It was reported in 1937 that this benchmark was covered by a fill, which at that time did not exceed 0.5 ft. in depth.

Canalou, 3.5 mi. E. of, 2.5 mi. W. of Matthews, near cor. secs. 2, 3, 34, and 35, Tps. 24 and 25 N., R. 13 E., 25 ft. S. of rd., 35 ft. NE. of frame house, on fence line S., in concrete post; standard tablet stamped "T T 10 C 1931"	290.263
Canalou, about 2.4 mi. E. of, along rd. to Matthews, about 500 ft. E. of cor. secs. 3, 4, 33, and 34, Tps. 24 and 25 N., R. 13 E., on S. side of rd., in front of house, in root of 22-in. oak tree; copper nail and washer	289.17
Canalou, about 1.3 mi. E. of, along rd. to Matthews, near cor. secs. 4, 5, 32, and 33, Tps. 24 and 25 N., R. 13 E., 20 ft. SW. of crossroads, in bottom of corner fence post; spike	291.75
Canalou, at N. edge of, near SW. corner of T-rd. S., 170 ft. E. of St. Louis-San Francisco R. R. at rd. crossing, in W. end of head wall of concrete culvert; chiseled square (U. S. C. E. B. M.)	289.74
Canalou, 30 ft. N. and 30 ft. W. of first rd. crossing N. of St. Louis-San Francisco R. R. depot, in concrete post; standard tablet stamped T T B C 1931"	288.633
Canalou, about 1.5 mi. N. of, along St. Louis-San Francisco R. R., in E $\frac{1}{2}$ sec. 30, T. 25 N., R. 13 E., on W. side of track, in root of 20-in. cottonwood tree; copper nail and washer	290.70
Canalou, about 2.5 mi. N. of, along St. Louis-San Francisco R. R., in SE $\frac{1}{4}$ sec. 19, T. 25 N., R. 13 E., on E. side of track, in root of 28-in. oak tree; copper nail and washer	290.97
Canalou, 2.8 mi. N. of, 3.7 mi. S. of Morehouse, along St. Louis-San Francisco R. R., 21 ft. S. and 45 ft. E. of R. R. at rd. crossing, in NW. corner of field, in concrete post; standard tablet stamped "T T 9 C 1931"	292.263
Morehouse, about 2.3 mi. S. of, along St. Louis-San Francisco R. R., in NE $\frac{1}{4}$ sec. 18, T. 25 N., R. 13 E., 270 ft. N. of rd. crossing, on E. side of track, in root of 12-in. oak tree; copper nail and washer	294.30
Morehouse, about 1.6 mi. S. of, along St. Louis-San Francisco R. R., in E $\frac{1}{2}$ sec. 7, T. 25 N., R. 13 E., on E. side of track, at rd. crossing, on N. end of iron pipe culvert; painted square	295.80
Morehouse, about 1 mi. S. of, along St. Louis-San Francisco R. R., in SE $\frac{1}{4}$ sec. 6, T. 25 N., R. 13 E., 230 ft. E. of rd. crossing, on S. side of rd., in root of 26-in. oak tree; copper nail and washer	299.51
Morehouse, near E. edge of, 61 ft. N. and 16 ft. E. of crossroads, 6 ft. S. and 16 ft. E. of Missouri Pacific R. R. at rd. crossing, 3 ft. N. of crossing signal, in concrete post; standard tablet stamped "T T 1 E 1931"	302.307
Reference mark, in NE. corner of concrete base of electric warning signal; chiseled square	302.37
Morehouse, about 0.8 mi. N. of, along St. Louis-San Francisco R. R., near cor. secs. 29, 30, 31, and 32, T. 26 N., R. 13 E., at rd. crossing, in concrete base of warning sign; chiseled square	302.80
Morehouse, about 1.8 mi. N. of, along rd. to Salcedo, near cor. secs. 19, 20, 29, and 30, T. 26 N., R. 13 E., 30 ft. W. of T-rd. E., inside of fence, in root of 26-in. oak tree; copper nail and washer	301.43
Salcedo, 0.2 mi. E. of cor. secs. 17, 18, 19, and 20, T. 26 N., R. 13 E., 25 ft. S. and 78 ft. E. of crossroads, 25 ft. S. and 13 ft. E. of St. Louis-San Francisco R. R. at rd. crossing, in concrete post; standard tablet stamped "T T 2 E 1931"	303.818
Reference mark, 30 ft. NW. of crossroads, in root of 40-in. oak tree; copper nail and washer	304.26
Tanner, about 1 mi. S. of, along rd. to Salcedo, about 0.2 mi. E. of cor. secs. 8, 17, and 18, T. 26 N., R. 13 E., 20 ft. N. and 10 ft. W. of crossroads, on W. end of iron pipe culvert; painted square	302.04
Tanner, about 0.2 mi. E. of cor. secs. 5, 6, 7, and 8, T. 26 N., R. 13 E., 160 ft. W. of crossroads, on N. side of rd., in root of 26-in. oak tree; copper nail and washer	306.04
Tanner, 0.8 mi. N. of, in NW $\frac{1}{4}$ sec. 5, T. 26 N., R. 13 E., 9 ft. N. and 18 ft. E. of rd. corner W. and S., 2 ft. S. and 18 ft. E. of S. gatepost, in concrete post; standard tablet stamped "T T 18 E 1931"	306.648
Reference mark, 25 ft. N. and 15 ft. W. of T-rd. S., in root of 26-in. oak tree, copper nail and washer	308.00
Tanner, about 1.9 mi. N. of, along rd. to Crowder, in E $\frac{1}{2}$ sec. 31, T. 27 N., R. 13 E., on W. side of rd. at curve, opposite dim ford across Little River, in root of 28-in. oak tree; copper nail and washer	307.70
Crowder, about 1.3 mi. SW. of, along rd. to Tanner, in SW $\frac{1}{4}$ sec. 30, T. 27 N., R. 13 E., on W. side of rd. at curve, in root of 50-in. oak tree; copper nail and washer	307.48
Crowder, about 0.7 mi. W. of, near center of N $\frac{1}{2}$ sec. 30, T. 27 N., R. 13 E., 21 ft. S. and 45 ft. E. of rd. fork NE., 2 ft. W. of fence, 5 ft. S. of corner post, in concrete post; standard tablet stamped "T T 17 E 1931"	310.806
Vanduser, about 1.5 mi. S. of, near center sec. 19, T. 27 N., R. 13 E., in fence line, in root of 36-in. locust tree; copper nail and washer	313.85
Vanduser, 1 mi. SW. of, near center sec. 18, T. 27 N., R. 13 E., 50 ft. S. and 25 ft. W. of St. Louis-San Francisco R. R. at rd. crossing, in root on N. side of large gum tree; copper nail and washer	311.17
Vanduser, 160 ft. S. of St. Louis-San Francisco R. R. depot, 21 ft. S. and 18 ft. E. of R. R. at rd. crossing, 1 ft. S. and 3 ft. W. of R. R. crossing sign, in concrete post; standard tablet stamped "T T 16 E 1931"	313.412
Reference mark, 185 ft. NE. of tablet, 75 ft. N. and 90 ft. E. of R. R. at rd. crossing, in root on W. side of gum tree; copper nail and washer	312.42
Vanduser, about 0.9 mi. W. of, on line between secs. 7 and 18, T. 27 N., R. 13 E., 90 ft. N. of T-rd. S., in root of 24-in. oak tree; copper nail and washer	311.57
Vanduser, about 1.3 mi. W. of, near S. cor. secs. 7 and 12, T. 27 N., Rs. 12 and 13 E., in NE. concrete wing wall of wooden bridge over Caney Creek; chiseled square	312.60

(Continued in Morley quadrangle; see line no. 6.)

3. FROM POINT NEAR CENTER OF EAST BORDER OF QUADRANGLE WEST BY WAY OF SIKESTON TO SALCEDO

Sikeston, about 4.1 mi. NE. of, along U. S. Highway 60, near line between secs. 14, and 15, T. 26 N., R. 14 E., in N. end of E. abutment of concrete bridge; chiseled square 310.49

Miner, in village of, 30 ft. N. and 24 ft. W. of crossroads at cor. secs. 15, 16, and 22, T. 26 N., R. 14 E., 51 ft. S. and 24 ft. W. of Missouri Pacific R. R. at rd. crossing, in concrete post; standard tablet stamped "T 6 E 1931" 309.669

Sikeston, about 1.9 mi. NE. of, along U. S. Highway 60, in NE $\frac{1}{4}$ sec. 20, T. 26 N., R. 14 E., in N. end of E. abutment of concrete bridge; chiseled square 308.57

Sikeston, at E. limits of city, 2 ft. N. and 1 ft. E. of NE. corner of red brick building of Missouri State Highway Department, in concrete post; standard tablet stamped "T 5 E 1931" 325.127

Sikeston, at W. side of entrance to city hall, 1 ft. N. of W. banister of steps, in concrete sidewalk; standard tablet stamped "T 4 E 1931" 329.026

Sikeston, at N. limits of, at end of pavement, in E. concrete curb; chiseled square 327.48

Sikeston, about 0.6 mi. N. of, at jog in old U. S. Highway 61, 100 ft. S. and 23 ft. W. of T-rd. S., 35 ft. SE. of S. corner of service station, 25 ft. N. of mail boxes, in S. corner of concrete base of gasoline pump; chiseled square 329.48

Sikeston, about 1 mi. N. of, along St. Louis-San Francisco R. R., on Matthews' farm, 39.5 meters (130 ft.) W. of W. rail at rd. crossing, 13.9 meters (46 ft.) N. of rd., 5.9 meters (19 ft.) N. of wire fence, buried 18 in. below surface, in concrete post; standard U. S. C. & G. S. triangulation station tablet stamped "Sikeston" 328.367

Reference mark no. 1, SE. of station, in corner of field, 14 meters (46 ft.) W. of cattle guard on R. R. track, in concrete post; standard U. S. C. & G. S. reference mark tablet 330.002

Sikeston, about 1 mi. N. and 1 mi. W. of, along rd. to Salcedo, about 800 ft. E. of cor. secs. 13, 14, 23, and 24, T. 26 N., R. 13 E., on S. side of rd., in front yard of house, in root of 28-in. oak tree; copper nail and washer 329.77

Sikeston, about 1 mi. N. and 2 mi. W. of, along rd. to Salcedo, near cor. secs. 14, 15, 22, and 23, T. 26 N., R. 13 E., 15 ft. S. and 15 ft. W. of crossroads, on concrete base of corner fence post; painted circle 304.09

T. 26 N., R. 13 E., secs. 15, 16, 21, and 22, 54 ft. N. and 63 ft. W. of T-rd. N. at cor. of, 1 ft. S. and 2 ft. E. of SE. corner of church, in concrete post; standard tablet stamped "T 3 E 1931" 302.733

Reference mark, in SW. corner of schoolyard, in concrete platform; chiseled square 305.28

Salcedo, about 1 mi. E. of, along rd. to Sikeston, 50 ft. W. of cor. secs. 16, 17, 20, and 21, T. 26 N., R. 13 E., in N. end of W. abutment of wooden bridge; chiseled square 301.58

4. FROM NORTH BORDER OF QUADRANGLE SOUTH ALONG U. S. HIGHWAY 61, BY WAY OF SIKESTON, TO POINT NEAR MATTHEWS (by L. V. Johnson in 1931)
(Continued from Morley quadrangle; see line no. 10.)

T. 27 N., R. 13 E., near quarter cor. between secs. 11 and 14, 30 ft. S. and 45 ft. W. of U. S. Highway 61 at cross rd., 4 ft. S. and 2 ft. E. of fence corner, in concrete post; standard tablet stamped "T 14 E 1931" 339.821

Reference mark, at SW. corner of crossroads, in head wall of concrete culvert; chiseled square 338.67

T. 27 N., R. 13 E., on line between secs. 14 and 23, along U. S. Highway 61, about 0.3 mi. N. of cross rd., 22 ft. W. of highway, in head wall of concrete culvert; chiseled square 335.22

T. 27 N., R. 13 E., in SE $\frac{1}{4}$ sec. 23, along U. S. Highway 61, 0.5 mi. N. of Kindered's store and service station, 260 ft. N. and 22 ft. W. of dim cross rd., in W. head wall of concrete culvert; chiseled square 334.88

Sikeston, 5.7 mi. N. of, along U. S. Highway 61, 250 ft. S. and 22 ft. W. of highway in front of Kindered's store and service station, 33 ft. N. and 22 ft. W. of T-rd. E. to farmhouse, in N. head wall of concrete culvert; chiseled square 334.81

Sikeston, 5.3 mi. N. of, along U. S. Highway 61, about 0.5 mi. S. of Kindered's store and service station, 15 ft. N. and 33 ft. E. of cross rd., in head wall of concrete culvert; chiseled square 333.69

Sikeston, 4 mi. N. of, along U. S. Highway 61, 0.8 mi. N. of Hunter School, 85 ft. N. and 110 ft. W. of rd. fork N., 3 ft. NW. of telephone pole, in concrete post; standard tablet stamped "T 15 E 1931" 335.337

Reference mark, 80 ft. SE. of tablet, at NE. corner of rd. forks, in head wall of concrete culvert; chiseled square 334.82

Sikeston, about 2.9 mi. N. of, along U. S. Highway 61, in SW $\frac{1}{4}$ sec. 1, T. 26 N., R. 13 E., at slight curve in highway, about 0.3 mi. S. of Hunter School, near NE. corner of farmyard, 13 ft. S. and 22 ft. W. of cross rd., in S. head wall of concrete culvert; chiseled square 330.24

Sikeston, 2.2 mi. N. of, along U. S. Highway 61, near center sec. 12, T. 26 N., R. 13 E., about 1 mi. S. of Hunter School, 440 ft. N. of rd. E. to old highway and private rd. W., 22 ft. W. of highway, in head wall of concrete culvert; chiseled square 332.20

Sikeston, 1.5 mi. N. of, along U. S. Highway 61, in NE $\frac{1}{4}$ sec. 13, T. 26 N., R. 13 E., about 300 ft. E. of aeroplane hangar, about 60 ft. E. of highway, 30 ft. W. of old highway, in S. side of concrete base of N. iron gate post; chiseled square 328.83

Sikeston, 0.9 mi. S. of, along old U. S. Highway 61, 25 ft. W. of highway, at NE. corner of Memorial Cemetery, in concrete base of red brick corner post; chiseled square 326.37

Sikeston, 1.1 mi. S. of, along U. S. Highway 61, NE. of junction of paved rd. N., 6 ft. W. of signboard, in N. head wall of concrete culvert; chiseled square 326.40

Sikeston, about 1.8 mi. S. of, along U. S. Highway 61, about 0.6 mi. N. of Fairview School, near group of signboards on E. side of highway, 10 ft. S. and 35 ft. E. of private rd. E. to farmhouse, in brace at SW. corner of large wooden culvert; copper nail and washer 324.55

Sikeston, 2.1 mi. S. of, 0.2 mi. N. of Fairview School, 15 ft. S. and 50 ft. W. of U. S. Highway 61 at rd. W., in concrete post; standard tablet stamped "T 7 13 O 1931" 323.138

- Reference mark, 6 ft. E. of tablet, in concrete highway marker; chiseled square 322.62
- Sikeston, 3.3 mi. S. of, along U. S. Highway 61, about 500 ft. NW. of large barn on Rawleigh Jersey Farm, 15 ft. N. and 15 ft. E. of T-rd. E., in E. head wall of concrete culvert; chiseled square 319.47
- Sikeston, 4.2 mi. S. of, along U. S. Highway 61, 35 ft. N. and 60 ft. E. of T-rd. E., in root on NE. side of 20-in. sweet gum tree; nail and washer 317.68
- Sikeston, 4.8 mi. S. of, along U. S. Highway 61, about 0.2 mi. S. of large silo, 18 ft. S. and 35 ft. W. of T-rd. W., in root on E. side of sycamore tree; copper nail and washer 316.76
- Sikeston, 5.1 mi. S. of, in SW. cor. sec. 17, T. 25 N., R. 14 E., 35 ft. N. and 60 ft. W. of U. S. Highway 61 at private rd., in SW. corner of field, in concrete post; standard tablet stamped "T 12 C 1931" 317.318
- Sikeston, 6.2 mi. S. of, at slight turn in U. S. Highway 61, on line between secs. 20 and 29, T. 25 N., R. 14 E., 20 ft. N. and 12 ft. E. of cross rd., in E. head wall of concrete culvert; chiseled square 315.38
- Sikeston, 7.2 mi. S. of, along U. S. Highway 61, about 1 mi. E. and 1 mi. N. of Matthews, about 0.5 mi. S. of Conway School, 10 ft. S. and 40 ft. W. of T-rd. W., in wooden brace at SW. corner of wooden culvert; copper nail and washer 313.09

5. FROM WEST BORDER IN NORTHWEST CORNER OF QUADRANGLE EAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO POINT ABOUT TWO MILES WEST OF VANDUSER (by E. W. Gouchenour in 1931)

(Continued from Bloomfield quadrangle; see line no. 2.)

- Himmel, 1 mi. E. of, along St. Louis-San Francisco R. R., 75 ft. S. and 280 ft. E. of center line of drainage ditch, in root on NW. side of gum tree; copper nail and washer 309.53
- Vanduser, 2 mi. W. of, along St. Louis-San Francisco R. R., about 600 ft. E. of Stoddard-Scott county line, 85 ft. N. of rd. crossing, in root on SE. side of black gum tree; copper nail and washer 310.28

6. FROM WEST BORDER OF QUADRANGLE EAST ALONG U. S. HIGHWAY 60 TO MOREHOUSE (by E. W. Gouchenour and L. V. Johnson in 1931)

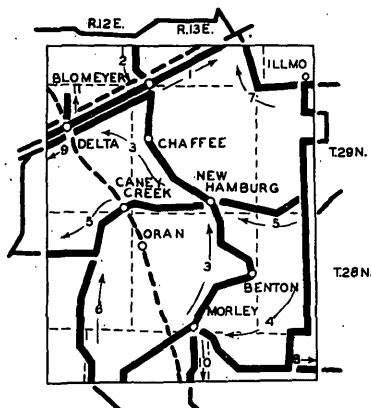
(Continued from Bloomfield quadrangle; see line no. 8.)

- Buffington, about 200 ft. SE. of Missouri Pacific R. R. station, on N. side of U. S. Highway 60, in N. head wall of concrete culvert; chiseled square 299.08
- Morehouse, 2 mi. W. of, along U. S. Highway 60, on W. bank of Little River drainage ditch, 35 meters (115 ft.) S. of pavement W. of bridge, in concrete post; standard U. S. C. & G. S. triangulation station tablet stamped "Ditch" 305.781
- Reference mark no. 1, 32.5 meters (107 ft.) from station in azimuth 185° , in SW. corner of W. approach abutment of bridge; standard U. S. C. & G. S. reference mark tablet 305.277
- Morehouse, 1.6 mi. W. of, along U. S. Highway 60, in N. end of W. abutment of concrete bridge over drainage ditch no. 37; chiseled cross (Little River Drainage Commission B. M.) 301.19

For additional level lines along Missouri Pacific R. R. and St. Louis-San Francisco R. R., refer to United States Coast and Geodetic Survey second-order lines; Sikeston to Poplar Bluff, Sikeston to Lilbourn, and Delta to Sikeston.

MORLEY QUADRANGLE
(Latitude 37° - $37^{\circ}15'$; longitude $89^{\circ}30'$ - $89^{\circ}45'$)

Cape Girardeau, Scott, and Stoddard Counties



1. IN NORTHWEST CORNER OF QUADRANGLE, NORTHEAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO NORTH BORDER (by E. C. Bibbee in 1914)

(Continued from Advance quadrangle; see line no. 1.)

	Feet
Delta, 0.9 mi. SW. of, along St. Louis-San Francisco R. R., in NW. corner of retaining wall, at E. end of R. R. bridge over Whitewater River; chiseled square	347.00
Delta, 260 ft. E. of St. Louis-San Francisco R. R. and Missouri Pacific R. R. crossing, 200 ft. NE. of R. R. station, 30 ft. N. of track, 90 ft. S. of State Highway 25; iron post stamped "Prim Trav Sta No 4 F 1924 Mo 337"	336.584
Delta, 0.7 mi. NE. of, along St. Louis-San Francisco R. R., at E. end of R. R. trestle no. A-145.3, in W. end of first tie; spike	337.19
Sharpsboro, 600 ft. NE. of, 60 ft. S. of St. Louis-San Francisco R. R., 30 ft. W. of State Highway 25, in front of house; iron post stamped "Prim Trav Sta No 3 F 1924 Mo 333"	332.968
Blomeyer, 2 mi. SW. of, along St. Louis-San Francisco R. R., in base of signpost marked "Sta. 1 mile"; spike	334.22
Blomeyer, 0.8 mi. SW. of, along St. Louis-San Francisco R. R., in base of fifth telegraph pole E. of signpost marked "Sta. 1 mile"; spike	337.30
Blomeyer, 300 ft. NE. of, 50 ft. N. of St. Louis-San Francisco R. R., 20 ft. S. of State Highway 25, 20 ft. W. of rd.; iron post stamped "Prim Trav Sta No 2 F 1924 Mo 337"	336.699
Blomeyer, 1.1 mi. NE. of, along St. Louis-San Francisco R. R., in base of third telegraph pole E. of signpost marked "Sta. 1 mile"; spike	333.12
Nash, 0.8 mi. SW. of, along St. Louis-San Francisco R. R., 60 ft. N. of track, 50 ft. W. of rd. crossing, in root of sweet gum tree; copper nail	334.82
Nash, 70 ft. E. of St. Louis-San Francisco R. R. station, 70 ft. S. of track, on W. side of rd.; iron post stamped "Prim Trav Sta No 1 F 1924 Mo 334"	334.214
Nash, 1.2 mi. NE. of, along St. Louis-San Francisco R. R., 300 ft. W. of milepost 138, 4 ft. S. of R. R. right-of-way, in root of large elm tree; copper nail	334.20
Nash, 1.6 mi. NE. of, along St. Louis-San Francisco R. R., 100 ft. N. of R. R., 25 ft. N. of private rd. along S. side of field; iron post stamped "Prim Trav Sta No 13 1920 Mo 337"	337.476

(Continued in Cape Girardeau quadrangle; see line no. 1.)

2. FROM NORTH BORDER OF QUADRANGLE SOUTH TO BLOMEYER (by S. R. Archer in 1920)

Blomeyer, about 1.5 mi. N. of, 300 ft. N. of levee, on E. side of rd. in driveway to house, 20 ft. E. of SW. corner of front yard, in root on W. side of 36-in. elm tree; copper nail and washer	341.98
Blomeyer, about 0.7 mi. N. of, in NE $\frac{1}{4}$ sec. 36, T. 30 N., R. 12 E., at main span of bridge over drainage ditch, in top of W. end of bridge seat; chiseled square	350.47

3. FROM POINT NEAR CENTER OF WEST HALF OF SOUTH BORDER OF QUADRANGLE NORTHEAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO MORLEY, THENCE NORTH BY ROAD TO BENTON, CHAFFEE, AND BLOMEYER, THENCE SOUTHWEST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO DELTA (by E. W. Gouchenour in 1931)

Vanduser, 1.1 mi. NE. of, on center of St. Louis-San Francisco R. R. trestle no. E-162.0; painted bolt head	315.24
Vanduser, 2 mi. NE. of, along St. Louis-San Francisco R. R., 25 ft. S. and 90 ft. E. of rd. crossing, in root on N. side of gum tree; copper nail and washer	318.32
Brooks Junction, 0.5 mi. SW. of, along St. Louis-San Francisco R. R., 10 ft. S. and 90 ft. E. of rd. crossing, in fence line, in root of small tree; copper nail and washer	319.87
Brooks Junction, 10 ft. S. and 65 ft. W. of crossing of two St. Louis-San Francisco R. R. lines, 6 ft. N. of crossing sign, in concrete post, standard tablet stamped "2 G 1931"	321.410
Reference mark, near SW. corner of R. R. crossing, in SE. corner of concrete base of ladder to signal; chiseled square	321.73
Morley, 1 mi. SW. of, along St. Louis-San Francisco R. R., 130 ft. N. and 70 ft. E. of rd. crossing, in root on N. side of large gum tree; copper nail and washer	326.46
Morley, at S. limits of, 0.3 mi. W. of schoolhouse, 27 ft. S. and 39 ft. E. of St. Louis-San Francisco R. R. at rd. crossing, 10 ft. NE. of corner post, 2 ft. from fence, in concrete post; standard tablet stamped "T T 13 E 1931"	343.201
Reference mark, 160 ft. S. and 60 ft. W. of tablet, in root on N. side of wild cherry tree; copper nail and washer	342.80
Morley, at public school, at W. side of front entrance, in bottom concrete step; chiseled square	344.31
Morley, 1 mi. NW. of, 10 ft. N. and 40 ft. E. of rd. fork N., in SW. wing wall of concrete culvert; chiseled square	349.08
Morley, 1.5 mi. N. of, at point where old Benton-Morley road joins U. S. Highway 61, in N. head wall of concrete culvert; chiseled square	362.73
T. 28 N., R. 13 E., near SE. cor. sec. 22, 40 ft. N. and 40 ft. W. of U. S. Highway 61 at private rd. N., 10 ft. S. and 4 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 35 E 1931"	377.813
Reference mark, along U. S. Highway 61, in S. head wall of concrete culvert; chiseled square	371.97
Benton, about 2 mi. SW. of, along U. S. Highway 61, near center sec. 23, T. 28 N., R. 13 E., 100 ft. S. and 200 ft. W. of rd. fork N., in N. head wall of concrete culvert; chiseled square	373.47
Benton, 0.9 mi. SW. of, along U. S. Highway 61, 55 ft. S. and 18 ft. W. of rd. fork S., in S. end of concrete culvert; chiseled square	354.15
Benton, at S. entrance to courthouse, in SE. balustrade of steps; standard tablet stamped "T T 36 E 1931"	439.860
Reference mark, in W. balustrade of steps; chiseled square	439.86
Benton, 0.5 mi. W. of, along rd. to New Hamburg, 50 ft. S. and 25 ft. W. of rd. fork S., in root on E. side of twin oak tree; copper nail and washer	478.91
Benton, 1 mi. W. of, along rd. to New Hamburg, 25 ft. N. of rd. fork SW. to Oran, in root on W. side of stump; copper nail and washer	571.97
New Hamburg, 1 mi. S. of, along rd. to Benton, 290 ft. N. of rd. fork S., on E. end of iron pipe culvert; painted square	425.10

New Hamburg, 25 ft. S. and 18 ft. W. of entrance to St. Lawrence School, 53 ft. N. and 21 ft. E. of crossroads, 2 ft. E. of edge of sidewalk, in concrete post; standard tablet stamped "T T 37 E 1931" 458.626
 Reference mark, 50 ft. S. of tablet, in S. end of concrete curb; chiseled square 453.97
 New Hamburg, 1 mi. NW. of, about 0.2 mi. W. of center sec. 34, T. 29 N., R. 13 E., about 300 ft. S. of junction with private rd. W., in fence line on W. side of rd., in root on N. side of large walnut tree; copper nail and washer 372.33
 New Hamburg, 1.6 mi. NW. of, about 0.25 mi. S. of NE. cor. sec. 33, T. 29 N., R. 13 E., 35 ft. S. of T-rd. E., on W. end of iron pipe culvert; painted square 363.73
 New Hamburg, about 2.2 mi. NW. of, in SW $\frac{1}{4}$ sec. 28, T. 29 N., R. 13 E., about 600 ft. W. of rd. corner, on top of hill, about 100 ft. S. of junction with private rd., in pasture, in root of tree; copper nail and washer 419.40
 T. 29 N., R. 13 E., near quarter cor. between secs. 28 and 29, 27 ft. E. and 20 ft. S. of rd. fork W., 2 ft. W. of fence N., in concrete post; standard tablet stamped "T T 38 E 1931" 433.566
 Chaffee, 2 mi. SE. of, in E $\frac{1}{2}$ sec. 20, T. 29 N., R. 13 E., 20 ft. W. of dim rd. fork SW., in root on E. side of 20-in. oak tree; copper nail and washer 499.51
 Chaffee, about 1 mi. SE. of, on top of ridge, 40 ft. W. of dim T-rd. SW., in root on E. side of black oak tree; copper nail and washer 539.50
 Chaffee, in SE. edge of, 10 ft. N. and 40 ft. E. of T-rd. E., in N. end of W. concrete abutment of wooden bridge over ditch; chiseled square 351.23
 Chaffee, 48 ft. S. and 114 ft. E. of SE. corner of St. Louis-San Francisco R. R. depot, 65 ft. E. and 27 ft. N. of R. R. at E.-W. rd. crossing, 4 ft. N. of curb, 10 ft. W. of pole, in concrete post; standard tablet stamped "T T 39 E 1931" 346.085
 Reference mark, 10 ft. E. of tablet, N. curb of street, at foot of telephone pole 345.74
 Chaffee, at St. Louis-San Francisco R. R. station, in front of ticket agent's window, main track of R. R.; top of W. rail 344.9
 Chaffee, 1.3 mi. N. of St. Louis-San Francisco R. R. station, on W. side of rd., in field, in root on E. side of gum tree; copper nail 328.75
 T. 29 N., R. 13 E., near center of S $\frac{1}{2}$ sec. 5, 16 ft. N. and 80 ft. W. of St. Louis-San Francisco R. R. at rd. crossing, 24 ft. E. and 24 ft. N. of rd. corner S. and E., in concrete post; standard tablet stamped "T T 40 E 1931" 329.197
 Reference mark, 30 ft. S. and 45 ft. W. of crossing, in S. end of iron pipe culvert; painted square 329.58
 Frisco Junction, 1 mi. NE. of, along St. Louis-San Francisco R. R., 20 ft. S. and 40 ft. W. of rd. crossing, on S. end of iron pipe culvert; painted square 330.33
 Blomeyer, 0.3 mi. S. of, along State Highway 55, 20 ft. N. and 45 ft. E. of rd. fork E., in N. head wall of concrete culvert; chiseled square 335.72
 Blomeyer, 300 ft. NE. of, 50 ft. N. of St. Louis-San Francisco R. R., 20 ft. S. of State Highway 25, 20 ft. W. of rd.; iron post stamped "Prim Trav Sta No 2 F 1924 Mo 337" 336.699
 Blomeyer, about 1 mi. SW. of, along St. Louis-San Francisco R. R., in NW $\frac{1}{4}$ sec. 1, T. 29 N., R. 12 E., 40 ft. N. and 10 ft. E. of T-rd. N., in E. head wall of concrete culvert; chiseled square 334.46
 Delta, 1.2 mi. NE. of, along St. Louis-San Francisco R. R., about 450 ft. SW. of T-rd. N., in N. head wall of concrete culvert; chiseled square 334.15

4. FROM ILLMO SOUTH ALONG EAST BORDER OF QUADRANGLE TO BLODGETT, THENCE NORTHWEST TO MORLEY (by H. P. Jones in 1931)

(Continued from Thebes quadrangle; see line no. 2.)

Illmo, 48 ft. W. of W. end of R. R. station, 20 ft. N. and 20 ft. W. of rd. crossing of main line tracks, 30 ft. SE. of SE. corner of old yard office building, on fire hydrant; top of bolt 372.70
 Illmo, at SW. corner of Second and Cherry streets, 1 ft. NE. of telephone pole, in top of concrete curb; chiseled square 392.10
 Illmo, about 0.5 mi. S. of, along rd. to Commerce, 165 ft. N. and 39 ft. E. of T-rd. W., 18 ft. S. and 2 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 33 E 1931" 432.475
 Reference mark, at NW. corner of T-rd. W., in head wall of concrete culvert; chiseled square 423.92

(For balance in Thebes quadrangle, see line no. 6.)

Illmo, 2 mi. S. of, about 1,000 ft. N. of cor. secs. 9, 10, 15, and 16, T. 29 N., R. 14 E., top of piling of retaining wall at SE. corner of wooden culvert; copper nail and washer 408.69
 Illmo, 3 mi. S. of, about 0.3 mi. N. of cor. secs. 15, 16, 21, and 22, T. 29 N., R. 14 E., in bottom land, on E. side of rd., in root of 24-in. tree; copper nail and washer 436.86
 T. 29 N., R. 14 E., in SE $\frac{1}{4}$ sec. 21, 40 ft. N. and 16 ft. W. of rd. fork NW., 2 ft. E. of SE. corner of yard, in concrete post; standard tablet stamped "T T 32 E 1931" 464.525
 T. 29 N., R. 14 E., 150 ft. E. of cor. secs. 27, 28, 33, and 34, 5 mi. S. of Illmo, on S. side of rd., in root of 14-in. willow tree; copper nail and washer 410.05
 T. 29 N., R. 14 E., near center of W $\frac{1}{2}$ sec. 34, 15 ft. S. and 12 ft. E. of rd. fork NW., 9 ft. N. and 15 ft. E. of telephone pole, 1 ft. S. of fence, in concrete post; standard tablet stamped "T T 31 E 1931" 351.036
 Reference mark, 150 ft. SW. of rd. fork NW., in top of head wall of concrete culvert; chiseled square 352.89
 T. 28 N., R. 14 E., near quarter cor. between secs. 3 and 4, 6.8 mi. S. of Illmo, 150 ft. E. of house, on S. side of rd., in root of 36-in. oak tree; copper nail and washer 335.63
 T. 28 N., R. 14 E., secs. 9 and 10, 25 ft. S. and 27 ft. E. of crossroads at quarter cor. between, 25 ft. N. and 24 ft. W. of NW. corner of Westmoreland Church, in concrete post; standard tablet stamped "T T 30 E 1931" 335.045
 Reference mark, 65 ft. SW. of SW. corner of Westmoreland Church, in root of 14-in. oak tree; copper nail and washer 335.49

- T. 28 N., R. 14 E., near quarter cor. between secs. 15 and 16, about 6 mi. SW. of Commerce, on W. side of rd. opposite house, in root of 14-in. catalpa tree; copper nail and washer 329.16
- T. 28 N., R. 14 E., cor. secs. 15, 16, 21, and 22, about 7 mi. SW. of Commerce, on E. side of rd. at T-rd. E., 140 ft. N. of house, in root of 26-in. oak tree; copper nail and washer 328.62
- T. 28 N., R. 14 E., 450 ft. S. of cor. secs. 21, 22, 27, and 28, 49 ft. N. and 10 ft. E. of State Highway 55 at N.-S. cross rd., 5 ft. N. and 1 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 29 E 1931" 330.534
- Reference mark, at NW. corner of crossroads, in root of 22-in. oak tree; copper nail and washer 330.39
- T. 28 N., R. 14 E., cor. secs. 27, 28, 33, and 34, 50 ft. SW. of crossroads, in root of 24-in. oak tree; copper nail and washer 328.90
- T. 28 N., R. 14 E., near S. cor. secs. 33 and 34, 30 ft. NW. of T-rd. N., in root of 36-in. oak tree; copper nail and washer 332.94
- T. 27 N., R. 14 E., about 0.4 mi. W. of N. cor. secs. 2 and 3, 21 ft. S. and 36 ft. E. of rd. fork SE., 2 ft. N. and 10 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 28 E 1931" 323.411
- Reference mark, in SE. corner of farmyard, in root of 9-in. redbud tree; copper nail and washer 330.19
- Blodgett, 1.7 mi. N. of, in NW $\frac{1}{4}$ sec. 2, T. 27 N., R. 14 E., on W. side of rd. at curve, in root of 40-in. oak tree; copper nail and washer 324.12
- Blodgett, in N. limits of, on E. side of rd., 30 ft. SE. of rd. fork NE., in root of 38-in. oak tree; copper nail and washer 327.04
- Blodgett, 140 ft. W. of Missouri Pacific R. R. depot, 56 ft. S. of main track at rd. crossing, 1 ft. N. of N. boundary of park, 6 ft. E. of E. edge of sidewalk, in concrete post; standard tablet stamped "T T 11 E 1931" 325.134
- Reference mark, 100 ft. NW. of crossroads, in SW. corner of concrete watering trough; chiseled square 326.02
- Blodgett, about 0.8 mi. W. of, about 0.1 mi. W. of cor. secs. 3, 4, 9, and 10, T. 27 N., R. 14 E., on N. side of rd., in root of 30-in. oak tree; copper nail and washer 323.25
- Blodgett, 1.8 mi. W. of, near cor. secs. 4, 5, 8, and 9, T. 27 N., R. 14 E., in middle of rd., in root of 40-in. oak tree; copper nail and washer 324.59
- Blodgett, 2.8 mi. W. of, near cor. secs. 5, 6, 7, and 8, T. 27 N., R. 14 E., on N. side of rd., opposite house, in root of 22-in. hickory tree; copper nail and washer 324.64
- Ward School, 210 ft. S. and 25 ft. W. of T-rd. W. at quarter cor. between secs. 5 and 6, T. 27 N., R. 14 E., 1 ft. N. and 8 ft. W. of post at SE. corner of schoolyard, in concrete post; standard tablet stamped "T T 12 E 1931" 328.945
- Reference mark, 50 ft. S. of SE. corner of school, in root of 24-in. oak tree; copper nail and washer 327.23
- Morley, about 1.3 mi. E. and 1.5 mi. S. of, in NW $\frac{1}{4}$ sec. 6, T. 27 N., R. 14 E., in NE. wing wall of steel bridge over drainage ditch; bolt 322.93
- Morley, about 0.9 mi. E. and 0.8 mi. S. of, in NE $\frac{1}{4}$ sec. 1, T. 27 N., R. 13 E., 600 ft. E. of rd. corner, on N. side of rd., in front of house, in root of 40-in. oak tree; copper nail and washer 341.78
- Morley, about 0.7 mi. E. of, about 0.2 mi. W. of N. cor. secs. 1 and 6, T. 27 N., R. 13 and 14 E., 260 ft. W. of rd. corner, on N. side of rd. in front of house, in root of 45-in. oak tree; copper nail and washer 344.02
5. FROM EAST BORDER OF QUADRANGLE WEST BY WAY OF NEW HAMBURG AND CANEY CREEK TO WEST BORDER
- T. 28 N., R. 14 E., in NW $\frac{1}{4}$ sec. 4, 57 ft. NE. of rd. fork N., in root of 36-in. oak tree; copper nail and washer 360.19
- T. 28 N., R. 14 E., in NW $\frac{1}{4}$ sec. 5, 1,400 ft. W. of Joe H. Legrand's farmhouse, 15 ft. N. and 9 ft. E. of junction of dim rd. N., 2 ft. S. and 35 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 41 E 1931" 416.322
- T. 28 N., R. 14 E., in NW $\frac{1}{4}$ sec. 6, about 800 ft. E. of U. S. Highway 61, near SE. corner of wooden bridge, in root of 28-in. sycamore tree; copper nail and washer 395.74
- Tps. 28 and 29 N., Rs. 13 and 14 E., about 750 ft. E. of cor. of, NW. of U. S. Highway 61 at cross rd., in top of head wall of concrete culvert; chiseled square 438.68
- Tps. 28 and 29 N., R. 13 E., near quarter cor. between secs. 1 and 36, in top of SE. abutment of steel bridge; chiseled square 386.17
- Tps. 28 and 29 N., R. 13 E., about 0.25 mi. W. of cor. secs. 1, 2, 35, and 36, 15 ft. S. and 35 ft. E. of T-rd. S., in root of 34-in. oak tree; copper nail and washer 441.87
- Tps. 28 and 29 N., R. 13 E., about 900 ft. E. of quarter cor. between secs. 4 and 33, in NE. concrete abutment of steel bridge; chiseled square 369.49
- T. 29 N., R. 13 E., near S. sixteenth cor. between secs. 32 and 33, 60 ft. W. of dim rd. fork N., on N. side of rd., in root of 11-in. elm tree; copper nail and washer 444.72
- T. 29 N., R. 13 E., near center sec. 32, 33 ft. E. of old T-rd. S., 7 ft. N. and 27 ft. E. of center of gate, in concrete post; standard tablet stamped "T T 42 E 1931" 432.748
- Reference mark, 45 ft. E. and 20 ft. N. of abandoned T-rd. S., in root of 18-in. hickory tree; copper nail and washer 431.72
- T. 29 N., R. 13 E., near quarter cor. between secs. 31 and 32, in SE. retaining wall of wooden bridge; copper nail and washer 361.84
- T. 29 N., R. 12 E., in NE $\frac{1}{4}$ sec. 36, about 650 ft. N. of T-rd. E., in SE. concrete abutment of steel bridge; chiseled square 344.29
- T. 29 N., R. 12 E., in SE $\frac{1}{4}$ sec. 36, about 0.5 mi. E. of Caney Creek, 50 ft. W. of rd. forks, near St. Louis-San Francisco R. R. at rd. crossing, on S. side of rd., on iron pipe culvert; painted square 346.10
- Caney Creek, at village of, in SE $\frac{1}{4}$ sec. 35, T. 29 N., R. 12 E., 10 ft. N. and 63 ft. E. of Missouri Pacific R. R. at rd. crossing, on S. side of rd.; 6 ft. NE. of telephone pole, in concrete post; standard tablet stamped "T T 43 E 1931" 333.883
- Reference mark, on N. side of rd., 12 ft. N. of fence corner, in root of 14-in. maple tree; copper nail and washer 334.00

SPIRIT LEVELING IN MISSOURI

Caney Creek, about 0.2 mi. S. and 0.5 mi. W. of, near N. quarter cor. sec. 2,
T. 28 N., R. 12 E., 12 ft. S. and 15 ft. W. of T-rd. S., on W. side of rd.,
on iron pipe culvert; painted square 327.08

Caney Creek, about 0.8 mi. W. and 1.1 mi. S. of, about 0.2 mi. S. of quarter cor.
between secs. 2 and 3, T. 28 N., R. 12 E., 150 ft. E. of rd. corner, in field,
in root of 24-in. pecan tree; copper nail and washer 328.52

Caney Creek, about 0.8 mi. W. and 1.8 mi. S. of, near quarter cor. between secs.
10 and 11, T. 28 N., R. 12 E., at NE. corner of wooden bridge; bolt 321.95

T. 28 N., R. 12 E., near cor. secs. 10, 11, 14, and 15, on SW. corner of bridge;
copper nail and washer 323.20

T. 28 N., R. 12 E., about 0.2 mi. S. of cor. secs. 10, 11, 14, and 15, 27 ft. S. and
2 ft. E. of rd. corner N. and E., 6 ft. S. and 2 ft. W. of fence corner, in
concrete post; standard tablet stamped "T T 44 E 1931" 320.204

T. 28 N., R. 12 E., in SE $\frac{1}{4}$ sec. 9, along Oran-Perkins road, in top, at NE. corner of
W. concrete abutment of bridge over drainage ditch no. 1; crosscut (Little
River Drainage Commission B. M.) 324.28

Perkins, 2 mi. E. of, along Oran-Perkins road, near cor. secs. 8, 9, 16, and 17,
T. 28 N., R. 12 E., 40 ft. N. and 45 ft. E. of crossroads, in root on S. side
of 18-in. elm tree; copper nail and washer 321.16

(Continued in Advance quadrangle; see line no. 9.)

6. FROM CENTER OF WEST HALF OF SOUTH BORDER OF QUADRANGLE NORTH TO POINT 2 MILES WEST OF ORAN

(Continued from Sikeston quadrangle; see line no. 2.)

Vanduser, about 1.3 mi. W. and 1 mi. N. of, near E. cor. secs. 1 and 12, T. 27 N.,
R. 12 E., 125 ft. W. of crossroads, in root of 24-in. elm tree; copper nail
and washer 313.67

Vanduser, about 1.3 mi. W. and 1.5 mi. N. of, near W. quarter cor. sec. 6, T. 27 N.,
R. 13 E., on E. side of rd., in fence line, in root of 12-in. catalpa tree;
copper nail and washer 315.34

T. 27 N., R. 13 E., in NW $\frac{1}{4}$ sec. 6, 14 ft. S. and 48 ft. E. of rd. forks, 2 ft. SE.
of corner post, in field, in concrete post; standard tablet stamped "T T 25
E 1931" 313.304

Reference mark, 50 ft. W. of small wooden bridge at rd. corner, in root on N.
side of 24-in. oak tree; copper nail and washer 313.55

T. 28 N., R. 12 E., near S. cor. secs. 33 and 34, about 1.8 mi. W. and 3 mi. N.
of Vanduser, on lower step to Hooe School; chiseled square 319.44

T. 28 N., R. 12 E., about 0.3 mi. E. of cor. secs. 27, 28, 33, and 34, about 1.7
mi. W. and 4 mi. N. of Vanduser, about 50 ft. NE. of crossroads, at fence
corner, in root of 6-in. oak tree; copper nail and washer 316.03

T. 28 N., R. 12 E., near quarter cor. between secs. 22 and 27, 5 ft. N. and 20 ft.
E. of T-rd. W., 1 ft. W. and 2 ft. N. of fence corner, in concrete post;
standard tablet stamped "T T 26 E 1931" 319.300

Reference mark, 12 ft. S. of gate, 2 ft. E. of post inside fence corner, in root
of 6-in. catalpa tree; copper nail and washer 319.23

Oran, about 3.5 mi. W. of, 850 ft. W. of quarter cor. between secs. 15 and 22, T. 28 N.,
R. 12 E., 50 ft. W. of T-rd. S., in root of 30-in. elm tree; copper nail and
washer 318.60

Oran, about 2.5 mi. W. of, in SW $\frac{1}{4}$ sec. 14, T. 28 N., R. 12 E., in Bryan Schoolyard,
in root of 36-in. oak tree; copper nail and washer 320.48

Oran, 2.5 mi. W. and 0.8 mi. N. of, in NW $\frac{1}{4}$ sec. 14, T. 28 N., R. 12 E., 45 ft. W.
of T-rd. S., on S. side of rd., in root on N. side of 24-in. oak tree; copper
nail and washer 324.08

7. FROM FORNFELT WEST TO ANCELL, THENCE NORTH ALONG U. S. HIGHWAY 61 TO NORTH BORDER OF QUADRANGLE

Fornfelt, 30 ft. W. of N. end of R. R. station, in base of telephone pole;
spike 364.38

Ancell, 60 ft. N. and 40 ft. W. of NW. corner of St. Louis Southwestern R. R.
station, in concrete head wall of culvert under U. S. Highway 61; chiseled
square 363.43

Ancell, about 0.5 mi. N. of, along U. S. Highway 61, on E. end of S. abutment of
concrete bridge over Little Ramsey Creek; chiseled square 352.39

Ancell, about 1.5 mi. N. of, along U. S. Highway 61, about 0.8 mi. S. of Cape Girardeau-
Scott county line, on E. side of highway, at rd. leading to farmhouse, on N.
end of concrete pipe culvert; painted square 334.01

Ancell, about 2.5 mi. N. of, along U. S. Highway 61, on E. end of S. wooden
retaining wall at approach to bridge over diversion channel; copper nail and
washer 352.38

(Continued in Cape Girardeau quadrangle; see line no. 11)

8. FROM BLODGETT EAST TO EAST BORDER OF QUADRANGLE

Blodgett, in N. limits of, on E. side of rd., 30 ft. SE. of rd. fork NE., in
root of 38-in. oak tree; copper nail and washer 327.04

Blodgett, 1 mi. E. of, 0.25 mi. W. of cor. secs. 1, 2, 11, and 12; T. 27 N.,
R. 14 E., in SE. concrete wing wall of wooden bridge; chiseled square 318.78

(Continued in Thebes quadrangle; see line no. 4.)

9. FROM DELTA SOUTHWEST ALONG ST. LOUIS SOUTHWESTERN R. R. TO WEST BORDER OF QUADRANGLE (by L. V. Johnson in 1931)

Delta, 0.8 mi. SW. of, along St. Louis Southwestern R. R., 180 ft. NE. of R. R. sign.
 South Delta, 60 ft. E. of track, in right-of-way fence, in root on SW. side of
 12-in. elm tree; copper nail and washer 355.12
 (Continued in Advance quadrangle; see line no. 2.)

10. FROM MORLEY SOUTH TO SOUTH BORDER OF QUADRANGLE

Morley, 1.4 mi. S. of school, along old sand rd., 100 ft. S. and 7 ft. W. of
 private rd. W. to farmhouse, in root on SE. side of 30-in. oak tree; copper
 nail and washer 326.17
 Morley, 2 mi. S. of, 0.8 mi. E. of U. S. Highway 61, 50 meters (164 ft.) W. of dirt
 and sand rd., on land owned by H. K. Dickey, on highest point of prominent sand
 hill, in concrete post; standard U. S. C. & G. S. triangulation station
 tablet stamped "Morley" 376.878
 Reference mark, no. 1, 357 ft. NE. of station, in W. fence line along side rd.,
 30
 meters (98 ft.) S. of S. end of gate at foot of sand hill, in concrete post;
 standard U. S. C. & G. S. reference mark tablet 337.413
 T. 27 N., R. 13 E., near quarter cor. between secs. 2 and 11, 30 ft. E. and 18
 ft. S. of T-rd. E., in S. head wall of concrete culvert; chiseled square 323.68

(Continued in Sikeston quadrangle; see line no. 4.)

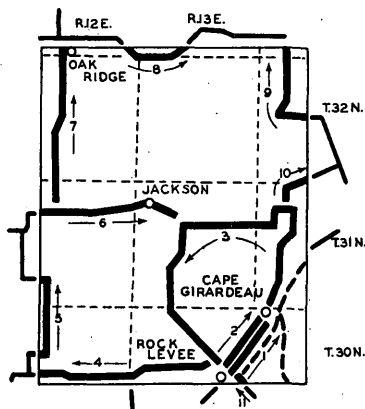
11. FROM DELTA NORTH ABOUT 2 MILES

Delta, 1.6 mi. N. of, in S. concrete pier on W. side of Missouri Pacific R. R.
 bridge; cross cut (Little River Drainage Commission B. M. designated "32") 352.89

For an additional level line along St. Louis-San Francisco R. R., in northwest quarter
 of quadrangle, refer to United States Coast and Geodetic Survey first-order line, Cape
 Girardeau, Mo., to Hoxie, Ark. For an additional line southeast through quadrangle,
 following Missouri Pacific R. R. and St. Louis-San Francisco R. R.; refer to United
 States Coast and Geodetic Survey second-order lines; Fredericktown to Delta and Delta
 to Sikeston.

CAPE GIRARDEAU QUADRANGLE*
 (Latitude 37°15'-37°30'; longitude 89°30'-89°45')

Cape Girardeau County



1. FROM SOUTH BORDER OF QUADRANGLE NORTHEAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO CAPE GIRARDEAU. (by E. C. Bibbee in 1914)

(Continued from Morley quadrangle; see line no. 1.)

Gulf Junction, 3.6 mi. SW. of, along St. Louis-San Francisco R. R., 50 ft. S. of Feet
 track, in root of elm tree; copper nail (reported destroyed) 340.75
 Gulf Junction, 2.8 mi. SW. of, along St. Louis-San Francisco R. R., at Rock Levee
 switch, 25 ft. S. of track, 15 ft. W. of rd. crossing, in root of oak tree;
 copper nail (reported destroyed) 345.62
 Gulf Junction, 0.6 mi. SW. of, along St. Louis-San Francisco R. R., 15 ft. N. of
 track, W. side of rd., on N. end of tile drain; highest point 340.72
 Gulf Junction, 450 ft. NE. of St. Louis-San Francisco R. R. station, 80 ft. E. of
 R. R., 20 ft. N. of private rd., 1 ft. W. of fence; iron post stamped "Prim
 Trav Sta No 14 1920 Mo 346" 346.446
 Cape Girardeau, 1.2 mi. S. of St. Louis-San Francisco R. R. station, SE. corner of
 South Fountain and Elm Streets, at N. entrance of R. B. Andrew's general
 store, in E. end of first step from bottom; chiseled square 351.49
 Cape Girardeau, on Water Street, second entrance from N. to River View Hotel, in outer
 vertical face of stone step which extends under buttress at NE. corner;
 horizontal copper bolt (U. S. C. E. P. B. M. designated "54") 346.417

* Part of this quadrangle lies in Illinois.

2. IN SOUTHEAST CORNER OF QUADRANGLE, FROM GULF JUNCTION NORTHEAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO CAPE GIRARDEAU (by S. R. Archer in 1920)

Gulf Junction, about 0.4 mi. NE. of, along St. Louis-San Francisco R. R., in top of E. end of parapet wall to N. abutment of bridge no. 133.5 over Cape La Croix Creek; chiseled square 349.70

Cape Girardeau, at foot of Independence Street, opposite and 200 ft. N. of St. Louis-San Francisco R. R. passenger station, in top of corner of balustrade at end nearest river of right angle off-set in concrete retaining wall; chiseled square 340.76

Cape Girardeau, on E. side of Water Street and St. Louis-San Francisco R. R. track, at foot of Themis Street, at top of levee, in top of E. end of N. concrete foundation of Mississippi River water gauge indicator stand; chiseled square 339.67

Cape Girardeau, at SW. corner of Themis and Water streets, on N. side at NE. corner of Hobb Mercantile Company's building, in top of E. end of stone doorsill at entrance to building, leaded vertically; copper bolt (U. S. C. E. B. M.) 341.033

Cape Girardeau, at SE. corner of Broadway and Fountain Streets, on E. side of N. entrance to post office building, at base of lamp pedestal, in top of granite block; standard tablet stamped "Prim Trav Sta No 1 1920 Mo 409" 408.582

3. FROM CAPE GIRARDEAU NORTH TO CENTER OF EAST BORDER OF QUADRANGLE, THENCE WEST TO CENTER OF QUADRANGLE, THENCE SOUTH AND SOUTHEAST TO ROCK LEVEE

Cape Girardeau, at NE. limits of, along rd. to Egypt Mills, at bridge over Sloan Creek, in W. end of S. stone abutment of main span; chiseled square 345.26

Cape Girardeau, about 1.4 mi. N. of, along The Bend Road, in SE $\frac{1}{4}$ sec. 29, T. 31 N., R. 14 E., 40 ft. N. of rd. crossing, on W. side of rd. N., in root on NE. side of 30-in. oak tree; copper nail and washer 396.39

Cape Girardeau, about 2.2 mi. N. of, along The Bend Road, near quarter cor. between secs. 20 and 29, T. 31 N., R. 14 E., 155 ft. S. of private rd. W., in top at S. end of W. head wall of concrete culvert; chiseled square 398.84

Cape Girardeau, about 2.6 mi. N. of, along The Bend Road, in SE $\frac{1}{4}$ sec. 20, T. 31 N., R. 14 E., 75 ft. S. of rd. forks, on E. side of rd., in root on E. side of 36-in. elm tree; copper nail and washer 360.34

Cape Girardeau, about 2.6 mi. N. of, along The Bend Road, in SE $\frac{1}{4}$ sec. 20, T. 31 N., R. 14 E., 60 ft. S. of rd. forks, on W. side of rd., in fence line; iron post stamped "1920 Mo 362" 361.369

Cape Girardeau, about 2.8 mi. N. of, along Cape Creek, in E $\frac{1}{2}$ sec. 20, T. 31 N., R. 14 E., near Juden School, at NW. corner of rd. forks, in root on E. side of 10-in. sycamore tree; copper nail and washer 366.86

T. 31 N., R. 14 E., near E. cor. secs. 17 and 20, about 0.1 mi. N. of private rd. E., in center of E. head wall of concrete culvert; chiseled square 439.31

T. 31 N., R. 14 E., near SW. cor. sec. 9, on S. side of Juden Creek, 60 ft. N. of rd. forks, on W. side of rd., in root on W. side of 36-in. gum tree; copper nail and washer 418.19

T. 31 N., R. 14 E., in SW $\frac{1}{4}$ sec. 4, on N. side of Little Flora Creek, 300 ft. W. of rd. forks, 4 in. E. of S. side of door at E. entrance of schoolhouse, in SW. corner of concrete platform; chiseled square 410.42

T. 31 N., R. 14 E., near E. quarter cor. sec. 5, on E. bank of Little Flora Creek, 125 ft. S. of N. drain to creek, 120 ft. S. of rd. forks, on W. side of rd., in root on N. side of 36-in. elm tree; copper nail and washer 427.70

T. 31 N., R. 14 E., near center sec. 5, 360 ft. N. of house, on W. side of rd. on N. bank of S. fork of Little Flora Creek, in root on E. side of 36-in. oak tree; copper nail and washer 453.05

Cape Girardeau, 6 mi. N. of, near center sec. 5, T. 31 N., R. 14 E., 350 ft. S. of residence of Henry Froemsdorf, 32 ft. S. 56° E. of crossroads, 44 ft. E. of rd. at E. bank of Little Flora Creek, 10 ft. N. of entrance to field; iron post stamped "Prim Trav Sta No 2 1920 Mo 451" 450.512

T. 31 N., R. 14 E., in NW $\frac{1}{4}$ sec. 8, about 800 ft. W. of T-rd. N., about 600 ft. W. of house on N. side of rd., 200 ft. W. of forks of creek, on S. bank, at fence corner, in root on N. side of 24-in. cherry tree; copper nail and washer 482.46

T. 31 N., R. 14 E., near center NW $\frac{1}{4}$ sec. 7, on top of ridge, 50 ft. E. of most southern point of rd. in curve to S., 40 ft. E. of rd. SE., 50 ft. E. of rd. S., on S. side of rd., in root on N. side of 15-in. hickory tree; copper nail and washer 620.69

T. 31 N., R. 13 E., near center NE $\frac{1}{4}$ sec. 12, 20 ft. N. and 20 ft. W. of T-rd. S., in root on W. side of 24-in. oak tree; copper nail and washer 553.88

T. 31 N., R. 13 E., in NW $\frac{1}{4}$ sec. 12, at SW. corner of T-rd. W., in root on W. side of 5-in. maple tree, 3 in. under ground; copper nail and washer 481.13

Cape Girardeau, 4.5 mi. N. and 2 mi. W. of, in W $\frac{1}{2}$ sec. 12, T. 31 N., R. 13 E., 450 ft. E. of brick residence of Ben Heuer, 15 ft. E. of edge of N-S. rd. at junction of rd. W., 25 ft. W. of W. bank of creek; iron post stamped "Prim Trav Sta No 4 1920 Mo 480" 479.584

T. 31 N., R. 13 E., near center sec. 11, in center of rd. junction W. of Randol School, in root on S. side of 36-in. oak tree; copper nail and washer 513.93

T. 31 N., R. 13 E., in NW $\frac{1}{4}$ sec. 11, 210 ft. W. of main rd. forks, near SW. corner of triangle, on N. side of rd. W., at fence corner, in root on S. side of 15-in. walnut tree, 4 in. under ground; copper nail and washer 474.64

Jackson, about 4 mi. E. of, along Bainbridge Road, in NW $\frac{1}{4}$ sec. 10, T. 31 N., R. 13 E., (actually in land grant) on S. side of rd., in front of house, in top of W. end of concrete retaining wall; chiseled square 529.68

Jackson, 3 mi. E. of, 175 ft. NW. of Randol Creek, 125 ft. SE. of rd. forks, 115 ft. NW. of corner of rd. S., 40 ft. W. of Cape Girardeau Northern R. R., on W. side of rd., in root on S. side of 30-in. walnut tree; copper nail and washer 437.06

Jackson, 3 mi. E. of, 300 ft. NW. of Randol Creek, 39 ft. S. 51° W. from Cape Girardeau Northern R. R. at rd. crossing, 6 ft. from fence line; iron post stamped "Prim Trav Sta No 5 1920 Mo 438" 438.234

Jackson, about 3.8 mi. E. of, on S. side of Cape Girardeau Northern R. R. track, 15 ft. N. and 25 ft. E. of T-rd. S., in S. side of 12-in. sycamore tree, 3 in. underground; spike 478.39

Cape Girardeau, 6 mi. NW. of, along gravel rd. to Jackson, in N $\frac{1}{2}$ sec. 21, T. 31 N., R. 13 E., (actually in land grant) 450 ft. NW. of rd. fork SW., 50 ft. W. of culvert, 35 ft. E. of milepost, on N. side of rd., in root on N. side of 24-in. persimmon tree; copper nail and washer	498.08
Cape Girardeau, about 6 mi. NW. of, 300 ft. SW. of Cape Girardeau-Jackson road, in top of W. head wall of concrete culvert; chiseled square	496.18
Jackson, about 3.8 mi. SE. of, along Benton Road, about 0.5 mi. N. of Oak Grove School, 50 ft. NE. of crossroads, in root on SW. side of 30-in. walnut tree; copper nail and washer	451.21
Jackson, about 3.8 mi. SE. of, along Benton Road, about 0.5 mi. N. of Oak Grove School, 65 ft. E. of crossroads, 15 ft. E. of fence corner, on S. side of rd. NE.; iron post stamped "1920 Mo 451"	450.451
Jackson, about 3.9 mi. SE. of, along Benton Road, 530 ft. SE. of crossroads, in top of S. end of E. head wall of culvert; chiseled square	426.34
Jackson, about 4.7 mi. SE. of, along Benton Road, 0.9 mi. SE. of crossroads, 0.5 mi. N. of church and cemetery, near SE. corner of private rd. E., in root on W. side of 15-in. oak tree; copper nail and washer	528.97
Jackson, about 5.2 mi. SE. of, along Benton Road, near church and cemetery, at SE. corner of T-rd. E., in root on W. side of 30-in. oak tree; copper nail and washer	491.58
Jackson, about 6 mi. SE. of, 140 ft. W. of main forks of Benton Road and rd. W. to Gordenville, W. of N. corner of triangle formed by rds., at fence corner, in root on N. side of 24-in. oak tree; copper nail and washer	493.17
Jackson, about 6.7 mi. SE. of, along Benton Road, 40 ft. W. of crossroads, on N. side of rd. W., in root on E. side of 36-in. oak tree; copper nail and washer	508.57
Jackson, about 6.7 mi. SE. of, along Benton Road, at SW. corner of crossroads, 4 ft. S. of fence corner; iron post stamped "1920 Mo 514"	513.49
Rock Levee, 3.7 mi. NW. of, along Benton Road, 1.1 mi. NW. of crossing of Bloomfield Road, 180 ft. NW. of rd. SW., on E. side of rd., in root on W. side of 15-in. wild cherry tree; copper nail and washer	456.29
Rock Levee, 2.6 mi. NW. of, along Benton Road, at N. corner of crossing of Bloomfield Road, in root on SW. side of 12-in. oak tree; copper nail and washer	432.85
Rock Levee, 2.6 mi. NW. of, along Benton Road, near E. corner of crossing of Bloomfield Road, 2 ft. SE. of fence corner; iron post stamped "1920 Mo 435"	434.967
Rock Levee, 1.3 mi. N. of, along Benton Road, 350 ft. W. of rd. corner from W. to S., in top of S. end of E. concrete abutment of bridge; chiseled square	360.97
Rock Levee, 0.7 mi. N. of, along Benton Road, 370 ft. S. of rd. fork NE., in top of N. end of W. head wall of concrete culvert; chiseled square	355.98
Rock Levee, 240 ft. N. of St. Louis-San Francisco R. R. along Benton Road, 200 ft. S. of rd. E. to Cape Girardeau, in top of W. end of seat of S. concrete abutment of bridge; chiseled square	350.53
Rock Levee, 0.9 mi. NE. of, along St. Louis-San Francisco R. R., on N. side of track, 17 ft. N. of right-of-way fence line, 90 ft. S. of concrete rd., 35 ft. SE. of schoolhouse, in root on SW. side of 24-in. pecan tree; copper nail and washer	341.31
4. FROM POINT 2.6 MILES NORTHWEST OF ROCK LEVEE WEST ALONG SOUTH BORDER OF QUADRANGLE	
Dutchtown, 4.1 mi. E. of, along Bloomfield Road, 0.9 mi. S. of crossing of Benton Road, 60 ft. S. of private rd. NW., on W. side of rd., in root on NE. side of 36-in. sycamore tree; copper nail and washer	362.13
Dutchtown, 3.8 mi. E. of, along Bloomfield Road, 1.2 mi. S. of crossing of Benton Road, on E. side of rd., near curve, in center of E. wing wall of N. concrete abutment of bridge; chiseled square	353.16
Dutchtown, 2.8 mi. E. of, along Bloomfield Road, about 0.5 mi. E. of Pecan Grove School, on N. side of rd., 40 ft. W. of rd. N., in root on SE. side of 12-in. persimmon tree; copper nail and washer	355.61
Dutchtown, 2.2 mi. E. of, along Bloomfield Road, near Pecan Grove School, at NW. corner of rd. N., in top of concrete head wall of drain pipe; chiseled square	360.48
Dutchtown, 1.7 mi. E. of, along Bloomfield Road, at NE. cor. of rd. N., 50 ft. W. of private rd. S., in root on S. side of 30-in. walnut tree; copper nail and washer	354.53
Dutchtown, 1.7 mi. E. of, along Bloomfield Road, 20 ft. S. of T-rd. N., 56 ft. S. 70° W. from SW. corner of concrete culvert abutment, 2 ft. W. of fence corner; iron post stamped "Prim Trav Sta No 12 1920 Mo 356"	355.718
Dutchtown, 0.6 mi. E. of, along Bloomfield Road, on S. side of rd., 125 ft. E. of top of hill, opposite and 60 ft. E. of house on N. side of rd., in root on W. side of 30-in. wild cherry tree; copper nail and washer	373.21
Dutchtown, at E. edge of, 50 ft. W. of T-rd. S., on N. side of rd. W., in root on SE. side of 30-in. oak tree; copper nail and washer	360.73
Dutchtown, S. side of Main Street, 75 ft. W. of Missouri Pacific R. R. at street crossing, at NE. corner of store belonging to H. F. Schulenberg, in SE. corner of concrete platform; chiseled cross	355.76
Dutchtown, 0.9 mi. W. of, along Bloomfield Road, 450 ft. W. of schoolhouse, on N. side of rd., at NE. corner of concrete bridge, 1 ft. from railing, in top, near bridge end, of wing wall; chiseled square	363.09
Dutchtown, 2 mi. W. of, along Bloomfield Road, S. of rd. forks, on N. bank of drain, in root on N. side of twin locust tree; copper nail and washer	358.93
Dutchtown, 2 mi. W. of, along Bloomfield Road, 85 ft. SW. of rd. forks, 32 ft. S. 15° 30' W. of center of small wooden bridge on E.-W. rd., near E.-W. fence, iron post stamped "Prim Trav Sta No 11 1920 Mo 359"	359.417
Dutchtown, 3.1 mi. W. of, 1.1 mi. NW. of rd. fork NW. from Bloomfield Road at SW. corner of T-rd. S., in root on SE. side of 24-in. sycamore tree; copper nail and washer	376.34
T. 30 N., R. 12 E., SE $\frac{1}{4}$ sec. 16, 50 ft. E. of T-rd. N., at SW. corner of bridge, in top and near S. end of concrete wing wall; chiseled square	369.96
T. 30 N., R. 12 E., in E $\frac{1}{2}$ sec. 17, 75 ft. SW. of T-rd. N., on E. side of private rd. S., at fence corner, in root of 18-in. oak tree; copper nail and washer	532.89

(Continued in Marble Hill quadrangle; see line no. 1.)

5. NORTH ALONG SOUTH HALF OF WEST BORDER OF QUADRANGLE
(Continued from Marble Hill quadrangle; see line no. 1.)

T. 30 N., R. 12 E., W $\frac{1}{2}$ sec. 17, at N. boundry line of land grant, on W. side of rd. at curve, in root on E. side of 30-in. maple tree; copper nail and washer	374.58
T. 30 N., R. 12 E., NW $\frac{1}{4}$ sec. 17, near curve in rd. to N., and private rd. SW., in top of S. wing wall of W. abutment of bridge; chiseled square	383.75
T. 30 N., R. 12 E., NW $\frac{1}{4}$ sec. 8, near top of hill, on E. side of rd., at N. side of gate, in root on W. side of 8-in. elm tree; copper nail and washer	533.39
Gordonville, 3 mi. W. and 1 mi. S. of, in S $\frac{1}{2}$ sec. 5, T. 30 N., R. 12 E., (actually in land grant) 130 ft. N. of T-rd. W., on E. side of rd. in fence line, in root on W. side of 14-in. maple tree; copper nail and washer	431.94
Gordonville, 3 mi. W. and 1 mi. S. of, in S $\frac{1}{2}$ sec. 5, T. 30 N., R. 12 E., (actually in land grant), at T-rd. W., 350 ft. E. of drain crossing rd. W., 260 ft. N. of same drain crossing rd. S., 15 ft. S. and 12 ft. W. of junction of rds.; iron post stamped "Prim Trav Sta No 9 1920 Mo 427"	427.239
Gordonville, about 3 mi. W. of, in N $\frac{1}{2}$ sec. 5, T. 30 N., R. 12 E., 100 ft. E. of T-rd. S., on N. side of rd. in fence line, in root on SW. side of 12-in. elm tree; copper nail and washer	499.53
T. 30 N., R. 12 E., in W $\frac{1}{2}$ sec. 5, NE. of village of Houck, 70 ft. N. of T-rd. N., on W. side of rd., in root on E. side of 30-in. oak tree; copper nail and washer	513.66
T. 31 N., R. 12 E., quarter cor. between secs. 31 and 32, 300 ft. E. of T-rd. S. and private rd. N., 100 ft. W. of small drain, on S. side of rd. in fence line, in root on E. side of 12-in. mulberry tree; copper nail and washer	446.43
T. 31 N., R. 12 E., W. sixteenth cor. sec. 32, near T-rd. N. on W. side of rd., on S. bank of creek, in root on E. side of 36-in. sycamore tree; copper nail and washer	423.80
T. 31 N., R. 12 E., SW $\frac{1}{4}$ cor. 29, in NW. part of village of Tilait, on S. side of rd. at curve to N., in NW. corner of schoolyard, in root on W. side of 24-in. gum tree; copper nail and washer	494.73
T. 31 N., R. 12 E., near quarter cor. between secs. 19 and 20, 60 ft. E. of T-rd. S., on N. side of rd. E., in root on SE. side of 36-in. oak tree; copper nail and washer	390.26

(Continued in Marble Hill quadrangle; see line no. 1.)

6. FROM CENTER OF WEST BORDER OF QUADRANGLE EAST TO POINT 3 MILES EAST OF JACKSON
(Continued from Marble Hill quadrangle; see line no. 1.)

Jackson, 3.8 mi. W. of, along Marble Hill Road, near Cane Creek School, 100 ft. W. of T-rd. S., on S. side of rd. W., in root on N. side of 12-in. hickory tree; copper nail and washer	492.19
Jackson, 3.1 mi. W. of, along Marble Hill Road, 200 ft. W. of bridge over Cane Creek, 18 ft. W. of milestone 13, on N. side of rd. inside of fence, in root on SE. side of 30-in. walnut tree; copper nail and washer	413.58
Jackson, 2.7 mi. W. of, along Marble Hill Road, 75 ft. W. of T-rd. N., on S. side of rd., in front yard of house, in root on NW. side of 24-in. cottonwood tree; copper nail and washer	465.91
Jackson, 2.1 mi. W. of, along Marble Hill Road, NW. of T-rd. S. and private rd. N., 5 ft. W. of fence corner; iron post stamped "1920 Mo 512"	511.672
Jackson, 1.3 mi. W. of, along Marble Hill Road, 400 ft. NE. of curve in rd. NE., N. of drain, on W. side of rd., in root on E. side of large twin sycamore tree, 4 in. under ground; copper nail and washer	439.16
Jackson, 0.9 mi. W. of, along Marble Hill Road, in S. side of post at W. end of S. bridge railing; chiseled square	429.76
Jackson, on S. side of West Main Street near junction of rd. to Oak Ridge, 65 ft. E. of street S., 18 ft. E. of junction of Oak Ridge road, 5 ft. E. of fire plug, in top of curbing; chiseled square	444.47
Jackson, on West Main Street at bridge over Hubble Creek, in top of N. end of E. stone abutment; chiseled square	417.32
Jackson, at Main Street entrance to courthouse, in center of top of lowest limestone head block on E. side of main entrance steps; standard tablet stamped "Prim Trav Sta No 6 1920 Mo 497"	496.816
Jackson, in E. part of, near Missouri Pacific R. R. station, between Missouri Pacific R. R. and Cape Girardeau Northern R. R. tracks, on S. side of East Main Street, in top of E. end of S. concrete head wall of culvert; chiseled square	432.15
Jackson, 0.7 mi. E. of Missouri Pacific R. R. station, along Cape Girardeau Northern R. R., between R. R. and creek, 450 ft. SW. of point on R. R. which is S. of rd. corner, in root on N. side of 42-in. sycamore tree, 4 in. under ground; copper nail and washer	449.30
Jackson, 1.6 mi. E. of, along Cape Girardeau Northern R. R., 200 ft. W. of E. end of cut, 100 ft. W. of top of grade, 5 ft. N. and 3 ft. above N. rail, in top of limestone outcrop; chiseled square	530.14
Jackson, 2 mi. E. of, along Cape Girardeau Northern R. R., 175 ft. NE. of rd. crossing, on N. side of rd., in root on S. side of 24-in. oak tree; copper nail and washer	499.13

7. NORTH ALONG NORTH HALF OF WEST BORDER OF QUADRANGLE (by R. T. Gale in 1921)

Jackson, 4 mi. W. of, along Millersville Road, at NE. corner of rd. junction N., 5 ft. inside of field, in root on S. side of 30-in. cherry tree; copper nail and washer	470.60
Jackson, about 4.1 mi. NW. of, along Millersville Road, on S. side of rd., 500 ft. E. of house, in root on SW. side of 30-in. oak tree; copper nail and washer	477.74
Jackson, about 5 mi. NW. of, 0.6 mi. N. of Millersville Road, NE. of small church, in root on W. side of 30-in. hickory tree, 1 in. under ground; copper nail and washer	516.53
Jackson, 5.5 mi. NW. of, by rd., about 1.6 mi. S. of Roberts School, along rd. leading to Millersville Road, 35 ft. E. of junction of three rds., in black oak tree; copper nail and washer	493.96

- Jackson, about 6 mi. NW. of, by rd., about 0.8 mi. S. of Roberts School, along rd. S. to Millersville Road, about 0.5 mi. W. of Jackson-Oak Ridge road, 60 ft. N. of T-rd. W., on E. side of rd., in root on W. side of locust tree; copper nail and washer 467.00
- Jackson, 6 mi. NW. of, by rd., about 0.8 mi. S. of Roberts School, along rd. to Millersville Road, about 0.5 mi. W. of Jackson-Oak Ridge road, 50 ft. W. of T-rd. W., 10 ft. E. of large locust tree; iron post stamped "1921 Mo 469" 468.864
- Jackson, about 6.5 mi. NW. of, by rd., about 0.5 mi. S. of Roberts School, near T-rd. W., about 160 ft. W. of concrete silo, in root on SE. side of 30-in. white oak tree; copper nail and washer 456.34
- Jackson, 6 mi. NW. of, along Jackson-Oak Ridge road, 125 ft. E. of Roberts School, on E. side of rd., opposite a point between two T-rds. W., in root on NW. side of 30-in. hard maple tree; copper nail and washer 497.46
- Jackson, 6.8 mi. NW. of, along Jackson-Oak Ridge road, about 0.8 mi. N. of Roberts School, 500 ft. SW. of rd. fork NW., on SW. side of rd., in root on E. side of 36-in. oak tree; copper nail and washer 467.75
- Byrd Creek bridge on Jackson-Oak Ridge road, 400 ft. N. of, 40 ft. W. of creek, on E. side of rd., 5 ft. N. of maple tree; iron post stamped "Prim Trav Sta No 1 J B L 1921 Mo 432" 432.234
- Jackson, 3.2 (? 7.2) mi. NW. of, along Jackson-Oak Ridge road, at SW. cor. of T-rd. W. and private rd. to barn, in concrete base of iron corner fence post; horizontal pipe 479.77
- Jackson, 8 mi. NW. of, along Jackson-Oak Ridge road, SW. of T-rd. W., 10 ft. NW. of L. M. Mouser's mail box, in small limestone rock; chiseled square 497.40
- Oak Ridge, 2.5 mi. S. of, along Jackson-Oak Ridge road, 50 ft. E. of rd. fork NW., in S. wing wall of concrete culvert; chiseled square 469.60
- Oak Ridge, 2.5 mi. S. of, along Jackson-Oak Ridge road, near rd. fork NW., 80 ft. SW. of concrete culvert, on S. side of rd., about 2 ft. from fence; iron post stamped "1921 Mo 469" 468.745
- Oak Ridge, 2.5 mi. S. of, along Jackson-Oak Ridge road, near junction of private rd. W., on E. side of rd., in root on W. side of 24-in. black oak tree, 1 in. underground; copper nail and washer 523.10
- Oak Ridge, 1.8 mi. S. of, along Jackson-Oak Ridge road, SE. of junction of rd. E., in fence line, in root on W. side of 24-in. walnut tree; copper nail and washer 496.67
- Oak Ridge, 0.8 mi. S. of, along Jackson-Oak Ridge road, on line between secs. 4 and 5, T. 32 N., R. 12 E., near rd. junction W., on E. side of rd., about 50 ft. NW. of house, in fence line, in root 2 ft. SE. of 18-in. black oak tree; copper nail and washer 575.01

8. EAST NEAR CENTER OF NORTH BORDER OF QUADRANGLE
(Continued from Altenburg quadrangle; see line no. 1.)

- T. 33 N., R. 12 E., secs. 35 and 36, about 0.1 mi. S. of quarter cor. between, on N. side of rd. at T-rd. S., 20 ft. E. of fence; iron post stamped "Prim Trav Sta No 7 J B L 1921 Mo 623" 622.408
- T. 33 N., R. 12 E., in E $\frac{1}{2}$ sec. 36, 1.2 mi. W. of Pocahtontas, along road to Oak Ridge, NE. of crossroads, in root on NW. side of 8-in. elm tree; copper nail and washer 671.75

(Continued in Altenburg quadrangle; see line no. 1.)

9. FROM CENTER OF NORTH HALF OF EAST BORDER OF QUADRANGLE WEST AND NORTH TO NORTH BORDER

(Continued from Jonesboro quadrangle; see line no. 1.)

- Oricle, about 1.3 mi. E. of, along Greens Ferry Road, near quarter cor. between secs. 20 and 21, T. 32 N., R. 14 E., about 0.3 mi. E. of cross rd., 50 ft. N. of barn, between persimmon tree and fence, in root of tree 2 in. underground; copper nail and washer 515.89
- Oricle, 1 mi. E. of, about 0.2 mi. E. of center sec. 20, T. 32 N., R. 14 E., SW. of crossroads, 34 ft. E. of wooden culvert under N.-S. rd., about 60 ft. W. of group of mail boxes, 11 ft. back from edge of bank, 10 ft. above rd.; iron post stamped "Prim Trav Sta No 3 1920 Mo 598" 588.589
- Oricle, about 1 mi. E. and 0.5 mi. N. of, on line between secs. 17 and 20, T. 32 N., R. 14 E., SE. of rd. junction W. of house, in root on S. side of small white oak tree; copper nail and washer 625.40
- Oricle, about 1 mi. E. and 1 mi. N. of, near center sec. 17, T. 32 N., R. 14 E., 700 ft. N. of small house, on W. side of rd., 50 ft. S. of rd. forks, in root on E. side of 12-in. black oak tree; copper nail and washer 541.74
- Oricle, about 1 mi. E. and 1.5 mi. N. of, in NE $\frac{1}{4}$ sec. 17, T. 32 N., R. 14 E., about 50 ft. SW. of creek, 150 ft. from small house, in root of 30-in. elm tree; copper nail and washer 404.25
- Neelys Landing, 2.5 mi. SW. of, in NE $\frac{1}{4}$ sec. 8, T. 32 N., R. 14 E., 650 ft. S. of iron bridge over Indian Creek, 30 ft. NE. of rd. fork SE., on bank of creek, in root on N. side of 48-in. sycamore tree, 2 ft. above ground; copper nail and washer 355.30
- Neelys Landing, 2.5 mi. SW. of, in NE $\frac{1}{4}$ sec. 8, T. 32 N., R. 14 E., 60 ft. E. of rd. fork SE., 20 ft. E. of edge of bed of creek, 2 ft. from fence; iron post stamped "1921 Mo 358" 358.802
- Neelys Landing, about 1 mi. SW. of, about 0.5 mi. S. of NE. cor. sec. 5, T. 32 N., R. 14 E., SW. of junction of rds., in root on E. side of 12-in. persimmon tree; 1 in. underground; copper nail and washer 360.86
- Neelys Landing, about 0.5 mi. SW. of, in NW $\frac{1}{4}$ sec. 4, T. 32 N., R. 14 E., 60 ft. W. of rd. fork N., in root on N. side of 30-in. black oak tree; copper nail and washer 363.87

10. NEAR CENTER OF EAST BORDER OF QUADRANGLE

Cape Girardeau, about 6.7 mi. N. of, 200 ft. E. of SW. cor. sec. 33, T. 32 N., R. 14 E., 100 ft. W. of junction of T-rd. N., on N. side of rd., in root on SE. side of 24-in. wild cherry tree; copper nail and washer 487.95

(Continued in Jonesboro quadrangle; see line no. 2.)

11. IN SOUTHEAST CORNER OF QUADRANGLE (leveled twice by H. P. Jones and L. V. Johnson in 1931)

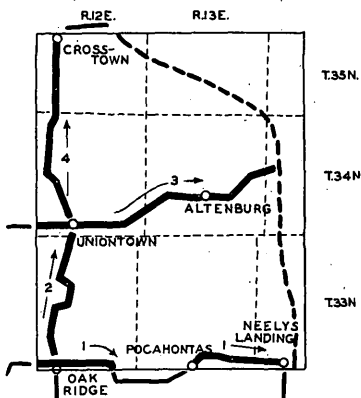
(Continued from Morley quadrangle; see line no. 7.)

Rock Levee, about 1 mi. W. of, along St. Louis-San Francisco R. R., 40 ft. E. of old concrete gateway, on N. side of tracks, in root of 28-in. oak tree; copper nail and washer 340.84

For additional level lines along Mississippi River and St. Louis-San Francisco R. R., refer to United States Coast and Geodetic Survey first-order lines; St. Louis, Mo., to Cairo, Ill., and Cape Girardeau, Mo., to Hoxie, Ark.

ALTENBURG QUADRANGLE*
(Latitude $37^{\circ}30' - 37^{\circ}45'$; longitude $89^{\circ}30' - 89^{\circ}45'$)

Cape Girardeau and Perry Counties

1. EAST ALONG SOUTH BORDER OF QUADRANGLE (by R. T. Gale in 1921)
(Continued from Perryville quadrangle; see line no. 2.)

	<u>Feet</u>
Oak Ridge, 0.8 mi. W. of, along rd. to Sedgewickville, at T-rd. S., at lower end of drain crossing; chiseled square	563.87
Oak Ridge, in S. corner of schoolyard; iron post stamped "Prim Trav Sta No 2 J B L 1921 Mo 592"	591.831
Oak Ridge, in front of post office, in NW. corner of sidewalk; chiseled square	612.60
Oak Ridge, 0.9 mi. E. of, along rd. to Neelys Landing, near center NE $\frac{1}{4}$ sec. 33, T. 33 N., R. 12 E., 20 ft. NE. of T-rd. N., in clay bank about 4 ft. above rd., remains of telephone post about 2 ft. out of ground; copper nail and washer	612.12
Oak Ridge, 1.4 mi. E. of, along rd. to Neelys Landing, near center NW $\frac{1}{4}$ sec. 34, T. 33 N., R. 12 E., 100 ft. S. of T-rd., in root on W. side of large sycamore tree, 3 in. underground; copper nail and washer	620.45
Oak Ridge, 1.7 mi. E. of, along rd. to Neelys Landing, about 0.1 mi. W. of center sec. 34, T. 33 N., R. 12 E., 125 ft. NE. of small house, 50 ft. NE. of Cape Girardeau Northern R. R., between track and rd., in root on W. side of black oak tree; copper nail and washer	618.26
Oak Ridge, 2.3 mi. E. of, along rd. to Neelys Landing, at T-rd. N., at quarter cor. between secs. 34 and 35, T. 33 N., R. 12 E., in top of N. head wall of concrete culvert; chiseled square	562.54
Oak Ridge, 2.8 mi. E. of, along rd. to Neelys Landing, near center sec. 35, T. 33 N., R. 12 E., 30 ft. N. of T-rd. N., 3 ft. inside fence corner, in root on S. side of white oak tree, 4 in. underground; copper nail and washer	586.20

(For balance in Cape Girardeau quadrangle, see line no. 8.)

Pocahontas, 0.8 mi. W. of, along rd. to Oak Ridge, about 1,000 ft. from stream crossing, in W. head wall of small culvert; chiseled square	567.76
Pocahontas, in front of F. J. Schoen's store, in NE. corner of concrete sidewalk; chiseled square	580.34
T. 33 N., R. 13 E., near center sec. 32, at NE. corner of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 8 J B L 1921 Mo 532"	531.551
Pocahontas, 1.2 mi. E. of, along rd. to Neelys Landing, about 0.2 mi. N. of W. quarter cor. sec. 33, T. 33 N., R. 13 E., about 1,000 ft. NE. of house, on E. side of rd., at rd. junction N., in root on W. side of 24-in. white oak tree; copper nail and washer	637.73

* Part of this quadrangle lies in Illinois.

- Pocahontas, 1.9 mi. E. of, along rd. to Neelys Landing, about 0.2 mi. NW. of center sec. 33, T. 33 N., R. 13 E., 250 ft. NE. of Rudolph Pitalad's mail box and driveway, on SE. side of rd., in root on W. side of 24-in. tree 3 in. underground; copper nail and washer 522.37
- Pocahontas, 2.5 mi. E. of, along rd. to Neelys Landing, in SE $\frac{1}{4}$ sec. 28, T. 33 N., R. 13 E., about 750 ft. N. of large house, 70 ft. N. of small drain crossing, on W. side of rd., in root on N. side of 24-in. white oak tree, about 5 in. underground; copper nail and washer 492.77
- Pocahontas, 3.2 mi. E. of, along rd. to Neelys Landing, near center sec. 27, T. 33 N., R. 13 E., 0.3 mi. W. of New Bethel Church, 70 ft. SE. of rd. junction, on SE. side of rd., in root on W. side of 24-in. black oak tree; copper nail and washer 647.28
- New Bethel Church, 250 ft. S. of, about 0.3 mi. E. of center sec. 27, T. 33 N., R. 13 E., on E. side of rd. at forks, in concrete post; standard tablet stamped "Prim Trav Sta No 9 J B L 1921 Mo 711" 711.272
- New Bethel Church, about 1.2 mi. SE. of, along rd. to Neelys Landing, about 0.2 mi. N. of S. quarter cor. sec. 26, T. 33 N., R. 13 E., about 750 ft. S. of Oak Hill School, SE. of footbridge, on N. side of rd., in root of small white oak tree; copper nail and washer 577.66
- T. 33 N., R. 13 E., about 0.4 mi. SE. of NW. cor. sec. 36, in bed of creek, at rd. forks, in root of 12-in. sycamore tree with four mail boxes attached to it; copper nail and washer 505.64
- T. 33 N., R. 14 E., near center NE $\frac{1}{4}$ sec. 31, 200 ft. SE. of small log house, at curve in rd.; iron post stamped "1921 Mo 441" 440.772
- T. 33 N., R. 14 E., about 0.2 mi. S. of NE. cor. sec. 31, 300 ft. W. of rd. forks, on NW. side of rd., 3 ft. E. of L. McCain's house, in root on E. side of 48-in. black oak tree; copper nail and washer 411.83
- Neelys Landing, 1 mi. W. of, along rd. to New Bethel Church, about 0.2 mi. S. of N. quarter cor. sec. 32, T. 33 N., R. 14 E., 125 ft. S. of Sheppard School, 100 ft. W. of rd. forks, on N. side of rd., in root on NE. side of 36-in. walnut tree; copper nail and washer 383.27
- Neelys Landing, 0.6 mi. W. of, at junction of dim rd. N., between main rd. and creek, in root on W. side of 24-in. sycamore tree; copper nail and washer 357.78
- Neelys Landing, about 0.3 mi. N. of St. Louis-San Francisco R. R. station, 30 ft. W. of track, in concrete post; standard tablet stamped "Prim Trav Sta No 10 J B L 1921 Mo 352" 352.817
- Neelys Landing, 1.1 mi. N. of, 0.5 mi. S. of Dog Creek, 60 meters (198 ft.) W. of St. Louis-San Francisco R. R., on top of prominent bluff; stone post (U. S. C. E. B. M. Indian Creek triangulation station) 474.827

2. FROM OAK RIDGE NORTH TO UNIONTOWN

- T. 33 N., R. 12 E., about 0.3 mi. S. of NW. cor. sec. 28, 100 ft. N. of T-rd. N., on W. side of rd., in root on SE. side of 18-in. white oak tree; copper nail and washer 509.04
- T. 33 N., R. 12 E., about 0.2 mi. N. of center sec. 20, at center of rd. forks, in large limestone rock; chiseled square 525.81
- T. 33 N., R. 12 E., near center NE $\frac{1}{4}$ sec. 17, 30 ft. W. of rd. NW., opposite gate to field, in root on E. side of 18-in. black oak tree; copper nail and washer 549.18
- T. 33 N., R. 12 E., in NW $\frac{1}{4}$ sec. 16, about 600 ft. E. of section line, 75 ft. S. of T-rd. N., 15 ft. W. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 11 J B L 1921 Mo 545" 544.297
- T. 33 N., R. 12 E., cor. secs. 4, 5, 8, and 9, 50 ft. S. of rd. forks, at sec. cor., in large limestone rock; chiseled square 462.10
- Appleton, 1.6 mi. SW. of, 1 mi. N. of SE. cor. long sec. 5, T. 33 N., R. 12 E., 150 ft. S. of T-rd. S., on W. side of rd., in root on S. side of wild cherry tree; copper nail and washer 464.64
- Appleton, 0.5 mi. S. of, at junction of rds. to Oak Ridge and Jackson, in SE. end of SW. head wall of concrete culvert; chiseled square 447.92
- Appleton, in top of NE. wing wall of large iron bridge across Apple Creek; chiseled square 400.67

3. EAST THROUGH CENTER OF QUADRANGLE TO WITTENBERG
(Continued from Perryville quadrangle; see line no. 1.)

- Schnurbusch Church, 0.2 mi. SE. of, on N. side of Uniontown-Biehle road at rd. NW., 20 ft. from center of rd.; iron post stamped "Prim Trav Sta No 16 J B L 1921 Mo 468" 467.201
- Uniontown, 1.3 mi. SW. of, 200 ft. W. of footbridge across creek, in triangle formed by junction of rd. S., in root on SW. side of 24-in. white oak tree; copper nail and washer 422.40
- Uniontown, about 500 ft. E. of crossroads, on S. side of rd., 2 ft. N. of picket fence, 4 ft. W. of telephone pole, in concrete post; standard tablet stamped "Prim Trav Sta No 22 J B L 1921 Mo 578" 576.319
- Uniontown, 0.7 mi. E. of, 100 ft. NE. of rd. forks, in root on S. side of white oak tree, 2 in. underground; copper nail and washer 560.23
- Uniontown, 1.8 mi. E. of, 0.3 mi. N. of quarter cor. between secs. 34 and 35, T. 34 N., R. 12 E., 250 ft. E. of T-rd. S., 20 ft. S. of T-rd. N., on S. side of rd., in root of 18-in. white oak tree; copper nail and washer 539.35
- Uniontown, 2.8 mi. E. of, about 0.3 mi. N. of quarter cor. between secs. 35 and 36, T. 34 N., R. 12 E., about 650 ft. E. of house, 20 ft. N. of T-rd. S., at fence corner, in root on S. side of black oak tree; copper nail and washer 518.46
- T. 34 N., R. 12 E., in SE $\frac{1}{4}$ sec. 25, 100 ft. NE. of large iron bridge over Indian Creek, 50 ft. N. of T-rd. NW.; iron post stamped "Prim Trav Sta No 23 J B L 1921 Mo 377" 376.561
- Frohna, 1.8 mi. SW. of, along rd. to Uniontown, about 0.3 mi. N. of rd. forks, 1,000 ft. N. of house, on W. side of rd., at gate, in root on E. side of 24-in. black oak tree; copper nail and washer 559.98
- Frohna, 0.5 mi. SW. of, along rd. to Uniontown, 100 ft. from small house, on SE. side of rd., in SW. end of concrete retaining wall for iron fence; chiseled square 550.03
- Frohna, 1 ft. NE. of NE. corner of post office building, 30 ft. E. of center of rd.; iron post stamped "Prim Trav Sta No 24 J B L 1921 Mo 594" 593.608

SPIRIT LEVELING IN MISSOURI

Altenburg, 1 mi. W. of, along rd. to Frohna, in SW $\frac{1}{4}$ sec. 21, T. 34 N., R. 13 E., 75 ft. W. of rd. forks, 10 ft. inside fence, in root on SE. side of 30-in. black oak tree; copper nail and washer 498.50

Altenburg, in W. edge of walk to school, 2 ft. outside of fence; chiseled square 579.39

Altenburg, 1 mi. E. of post office, along rd. to Wittenberg, 40 ft. E. of T-rd. S., 5 ft. inside fence corner; iron post stamped "Prim Trav Sta No 25 J B L 1921 Mo 577" 576.676

Altenburg, 1.8 mi. NE. of, along rd. to Wittenberg, 50 ft. SE. of rd. junction SE., in root on NE. side of 36-in. black oak tree; copper nail and washer 566.69

Wittenberg, 1.7 mi. SW. of, along rd. to Altenburg, 40 ft. NE. of rd. junction, in root on W. side of 36-in. hard maple tree; copper nail and washer 378.10

Wittenberg, 0.6 mi. SW. of, along rd. to Altenburg, on N. side of rd., in root on E. side of 42-in. elm tree; copper nail and washer 377.77

Wittenberg, at Wittenberg Flouring Mill, on side facing river, between ground floor door and down river corner of mill, in stone foundation wall; center of copper bolt leaded horizontally (U. S. C. E. B. M. designated "45") 362.302

4. FROM UNIONTOWN NORTH TO CROSSTOWN

Uniontown, about 500 ft. E. of crossroads, on S. side of rd., 2 ft. N. of picket fence, 4 ft. W. of telephone pole, in concrete post; standard tablet stamped "Prim Trav Sta No 22 J B L 1921 Mo 578" 576.319

Uniontown, 0.8 mi. NW. of, along Perryville and Jackson Road, in NW $\frac{1}{4}$ sec. 28, T. 34 N., R. 12 E., NW. of junction of rd. N. to Menfro station, in root on W. side of white oak tree; copper nail and washer 576.33

Uniontown, about 2.3 mi. NW. of, along Perryville and Jackson Road, in NW $\frac{1}{4}$ sec. 20, T. 34 N., R. 12 E., about 150 ft. N. of fence corner, in small group of trees, at turn in rd., on W. side of rd., in root on W. side of white oak tree; copper nail and washer 560.21

Uniontown, about 3 mi. NW. of, about 0.1 mi. S. of NW. cor. sec. 20, T. 34 N., R. 12 E., 40 ft. NE. of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 12 J B L 1921 Mo 579" 579.075

Eureka, about 1.5 mi. S. of, along rd. to Uniontown, about 0.3 mi. N. of SW. cor. sec. 8, T. 34 N., R. 12 E., 60 ft. S. of rd. junction, 5 ft. S. of bed of creek, in root on NW. side of 36-in. black oak tree; copper nail and washer 527.01

Eureka School, 800 ft. SW. of, in sec. 5, T. 34 N., R. 12 E., on N. side of Wittenberg road at rd. S. to Unionville, in concrete post; standard tablet stamped "Prim Trav Sta No 14 J B L 1921 Mo 643" 642.381

Eureka, about 1 mi. N. of, in SW $\frac{1}{4}$ sec. 32, T. 35 N., R. 12 E., 60 ft. S. of rd. W., on W. side of rd., in root on NE. side of large white oak tree; copper nail and washer 616.30

Eureka, about 1.8 mi. N. of, in SW $\frac{1}{4}$ sec. 29, T. 35 N., R. 12 E., 300 ft. N. of large drain, 150 ft. S. of small group of trees, in root on NE. side of small persimmon tree; copper nail and washer 609.29

Hager School, 350 ft. NW. of, 1 ft. S. of fence, in corner of schoolyard; iron post stamped "Prim Trav Sta No 15 J B L 1921 Mo 616" 615.543

Crosstown, 0.8 mi. S. of, 10 ft. from T-rd. E., at Martin Schnessler's mail box, in root on W. side of 18-in. tree; copper nail and washer 574.06

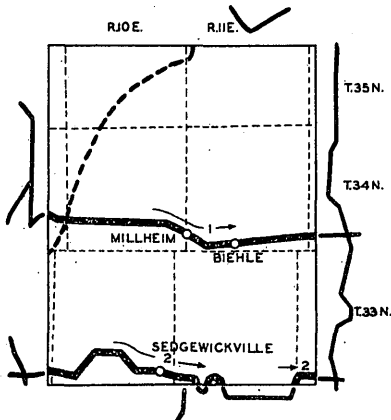
Crosstown, at NW. corner of James Grimand's store, in W. foundation wall; standard tablet stamped "Prim Trav Sta No 7 1913 Mo 570" 569.549

(Continued in Campbell Hill quadrangle; see line no. 1.)

For an additional level line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, St. Louis, Mo. to Cairo, Ill.

PERRYVILLE QUADRANGLE
(Latitude 37°30'-37°45'; longitude 89°45'-90°)

Bollinger, Cape Girardeau, and Perry Counties



1. EAST THROUGH CENTER OF QUADRANGLE (by R. T. Gale in 1921)
(Continued from Higdon quadrangle; see line no. 3.)

T. 34 N., R. 9 E., near center sec. 25, NE. of junction of rd. N., in root on SW. side of white oak tree; copper nail and washer	Feet 854.89
T. 34 N., R. 10 E., in $\frac{W}{2}$ sec. 30, about 750 ft. W. of T-rd. S., 700 ft. W. of house, on N. side of rd., N. of E-W. fence, in root on S. side of 30-in. black oak tree; copper nail and washer	831.08
T. 34 N., R. 10 E., in SW $\frac{1}{4}$ sec. 29, 100 ft. N. of Lukefahr School, 5 ft. W. of sandstone rock, in root on N. side of large white oak tree; copper nail and washer	719.13
Millheim, 3.3 mi. W. of, along rd. to Yount, about 300 ft. SE. of house, on N. side of rd., in root on N. side of 12-in. black oak tree; copper nail and washer	776.94
Millheim, 2.9 mi. W. of, along rd. to Yount, 0.2 mi. N. of center sec. 28, T. 34 N., R. 10 E., 20 ft. NE. of junction of Greenville-Perryville and Uniontown-Yount roads; iron post stamped "Prim Trav Sta No 20 J B L 1921 Mo 826"	825.159
Millheim, 1.5 mi. W. of, along rd. to Yount, near N. sixteenth cor. sec. 27, T. 34 N., R. 10 E., on S. side of rd. in fence line, in root on N. side of 24-in. white oak tree; copper nail and washer	678.41
Millheim, 0.8 mi. NW. of, along rd. to Yount, in NW $\frac{1}{4}$ sec. 26, T. 34 N., R. 10 E., 200 ft. SE. of house, on NE. side of rd. corner, in root on N. side of 30-in. white oak tree; copper nail and washer	717.75
Millheim, about 350 ft. W. of mill, 40 ft. N. of creek, 10 ft. S. of rd.; iron post stamped "Prim Trav Sta No 19 J B L 1921 Mo 581"	580.651
Millheim, 1 mi. SE. of, along rd. to Biehle, 0.3 mi. N. of Schumer Springs, 60 ft. S. of rd. fork SW., in root on NW. side of hard maple tree; copper nail and washer	526.37
Biehle, 1.2 mi. W. of, along rd. to Millheim, about 500 ft. W. of house, 15 ft. N. of rd., in root on SW. side of black oak tree; copper nail and washer	579.74
Biehle, 100 ft. SW. of Cape Girardeau Northern R. station, 100 ft. W. of rd. crossing, about 150 ft. S. of junction of three rds., in bank about 4 ft. above roadbed, in root on SW. side of 30-in. black oak tree; copper nail and washer	551.90
Biehle, 350 ft. NW. of rd. junction, 10 ft. from fence corner, 20 ft. from private driveway; iron post stamped "Prim Trav Sta No 18 J B L 1921 Mo 527"	526.559
Biehle, 1.2 mi. E. of, along rd. to Schnurbusch, in NE $\frac{1}{4}$ sec. 35, T. 34 N., R. 11 E., at NE. corner of small bridge, in iron brace; chiseled square	465.96
Biehle, 2 mi. E. of, along rd. to Schnurbusch, near center sec. 34, T. 34 N., R. 11 E., about 100 ft. E. of creek, 10 ft. E. of 24-in. black oak tree, 3 ft. N. of wire fence, on S. side of rd.; iron post stamped "Prim Trav Sta No 17 J B L 1921 Mo 454"	453.158
Biehle, 3.5 mi. E. of, along rd. to Schnurbusch, in NE $\frac{1}{4}$ sec. 35, T. 34 N., R. 11 E., 1,000 ft. W. of T-rd. N., 600 ft. E. of T-rd. S., at SE. corner of timbered tract, in root on SE. side of 24-in. black oak tree; copper nail and washer	515.05
Schnurbusch, about 0.7 mi. SW. of, along rd. to Biehle, in $\frac{W}{2}$ sec. 31, T. 34 N., R. 12 E., on N. side of rd., 75 ft. E. of rd. forks, 5 ft. E. of fence corner, in root on S. side of 48-in. black oak tree; copper nail and washer	473.33

(Continued in Altenburg quadrangle; see line no. 3.)

2. EAST ALONG SOUTH BORDER OF QUADRANGLE
(Continued from Higdon quadrangle; see line no. 4.)

Patton, 1.6 mi. E. of, along rd. to Oak Ridge, at T-rd. S., in top of stone on which is chiseled "NE Cor Sur 773"; chiseled square	661.02
Patton, 1.8 mi. E. of, along rd. to Oak Ridge, 30 ft. S. of small church on top of hill, on N. side of rd., in root on S. side of white oak tree; copper nail and washer	744.99
Patton, 2 mi. E. of, along rd. to Oak Ridge, on top of high ridge, on N. side of rd., opposite house, in root on S. side of 24-in. black oak tree; copper nail and washer	774.47
Patton, 2.9 mi. E. of, along rd. to Oak Ridge, 50 ft. SW. of Flatwood School, 20 ft. SW. of well, 2 ft. S. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 6 J B L 1921 Mo 722"	721.999
Patton, 3.2 mi. E. of, along rd. to Oak Ridge, 50 ft. NE. of Lebanon Church, 150 ft. E. of rd. junction, on S. side of main rd., in root on N. side of 36-in. black oak tree; copper nail and washer	694.23
Sedgewickville, 1.8 mi. W. of, along rd. to Patton, at T-rd. S., in NE. wing wall of concrete culvert; chiseled square	656.04
Sedgewickville, 0.8 mi. W. of, along rd. to Patton, 60 ft. W. of T-rd. S., on N. side of main rd., in root on S. side of 30-in. white oak tree; copper nail and washer	660.13
Sedgewickville, 0.7 mi. W. of, along rd. to Patton, at junction of rd. NW., in E. wing wall of small concrete culvert; chiseled square	652.33
Sedgewickville, about 1,000 ft. W. of post office, 125 ft. SW. of Lutheran Parsonage, 10 ft. SW. of large maple tree, in SE. corner of field; iron post stamped "Prim Trav Sta No 5 J B L 1921 Mo 642"	641.704
Sedgewickville, 0.7 mi. E. of, along rd. to Oak Ridge, NW. of cross rd., in fence line, in root on W. side of 36-in. white oak tree; copper nail and washer	655.70
Sedgewickville, 1.2 mi. E. of, along rd. to Oak Ridge, about 0.2 mi. W. of schoolhouse, SW. of T-rd. S., in root on N. side of badly washed oak tree; copper nail and washer	661.93
Sedgewickville, 2 mi. E. of, along rd. to Oak Ridge, at T-rd. N., 75 ft. N. of small drain, 50 ft. W. of log house, in root on N. side of 30-in. walnut tree; copper nail and washer	501.40
Sedgewickville, 2.3 mi. E. of, along rd. to Oak Ridge, 20 ft. SW. of small bridge, at rd. forks, in root on NE. side of 12-in. hickory tree; copper nail and washer	475.01

(For balance in Marble Hill quadrangle, see line no. 2.)

SPIRIT LEVELING IN MISSOURI

Sedgewickville, 3.7 mi. E. of, along rd. to Oak Ridge, 20 ft. SW. of T-rd. S.,
2 ft. E. of gate in fence corner, in large flint rock; chiseled square 569.47

(For balance in Marble Hill quadrangle, see line no. 2.)

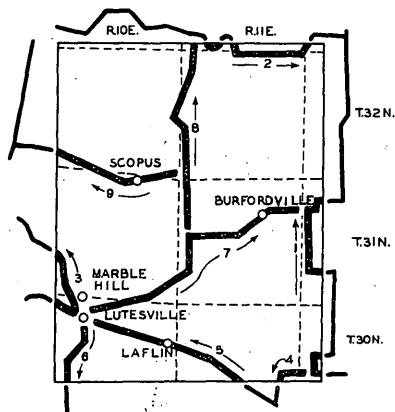
Oak Ridge, 1.3 mi. W. of, along rd. to Sedgewickville, 20 ft. E. of crossroads,
in W. end of N. head wall of concrete culvert; chiseled square 544.54

(Continued in Altenburg quadrangle; see line no. 1.)

For an additional level line along State Highway 51, refer to United States Coast
and Geodetic Survey second-order line, Fredericktown to Claryville.

MARBLE HILL QUADRANGLE
(Latitude $37^{\circ}15'-37^{\circ}30'$; longitude $89^{\circ}45'-90^{\circ}$)

Bollinger and Cape Girardeau Counties



1. NORTH ALONG SOUTH HALF OF EAST BORDER OF QUADRANGLE (by S. R. Archer in 1920)
(Continued from Cape Girardeau quadrangle; see line no. 4.)

	Feet
Whitewater, 3 mi. NE. of, 800 ft. SE. of Maple Grove School, at rd. forks, 70 ft. SE. of center of bridge, 28 ft. SE. of birch tree, on E. side of rd., 2 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 10 1920 Mo 362"	361.676
Reference mark, in top near center of E. wing wall of N. concrete abutment of highway bridge; chiseled square	361.54

(For balance in Cape Girardeau quadrangle, see line no. 5.)

Tilsit, 0.8 mi. NW. of, in NE $\frac{1}{4}$ sec. 30, T. 31 N., R. 12 E., 150 ft. W. of small bridge, 15 ft. S. of T-rd. N., 2 ft. from fence on S. side of rd.; iron post stamped "Prim Trav Sta No 8 1920 Mo 407"	407.096
Tilsit, about 1.5 mi. NW. of, in top of S. end of parapet wall of E. concrete abutment of bridge over Eyrd Creek; chiseled square	393.14
Tilsit, about 2 mi. NW. of, on NE. corner of bridge over Cain Creek, in top of outer edge of horizontal steel plate on top of circular steel pillar; chiseled square	384.65
Tilsit, about 3 mi. NW. of, on W. side of rd., in root on NW. side of 36-in. oak tree; copper nail and washer	448.43
Burfordville, 3 mi. E. of, along rd. to Jackson, 45 ft. S. 27° W. from rd. fork S., 58 ft. S. of hickory tree on N. side of rd., 1 ft. from fence on W. side of rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 7 1920 Mo 455"	454.437
Jackson, 5 mi. W. of, along Burfordville road, 125 ft. NW. of T-rd. S., on N. side of rd., in field, in root on S. side of 30-in. maple tree; spike	455.14

(Continued in Cape Girardeau quadrangle; see line no. 6.)

2. EAST ALONG EAST HALF OF NORTH BORDER OF QUADRANGLE (by R. T. Gale in 1921)
(Continued from Perryville quadrangle; see line no. 2.)

Sedgewickville, 2.5 mi. E. of, along rd. to Oak Ridge, 500 ft. N. of rd. forks, 200 ft. SW. of farmhouse, on E. side of main rd., 2 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 4 J B L 1921 Mo 461"	460.829
Sedgewickville, 3 mi. E. of, along rd. to Oak Ridge, about 0.1 mi. NE. of SW. cor. sec. 32, T. 33 N., R. 11 E., 50 ft. NE. of crossroads, in SE. end of NW. concrete wing wall of bridge across Whitewater River; chiseled square	450.81

(For balance in Perryville quadrangle, see line no. 2.)

- Sedgewickville, 4.4 mi. E. of, along rd. to Oak Ridge, about 0.2 mi. SW. of center sec. 33, T. 33 N., R. 11 E., 75 ft. SE. of junction of rd. to Daisy, 50 ft. N. of barn on S. side of rd., in root on N. side of 18-in. white oak tree; copper nail and washer 570.47
- Sedgewickville, 4.9 mi. E. of, along rd. to Oak Ridge, about 0.2 mi. E. of S. quarter cor. sec. 33, T. 33 N., R. 11 E., 100 ft. W. of T-rd. E., on N. side of rd., in root on S. side of 24-in. black oak tree; copper nail and washer 559.41
- Sedgewickville, 5.4 mi. E. of, along rd. to Oak Ridge, at Caney Fork Church, about 0.1 mi. E. of SW. cor. sec. 34, T. 33 N., R. 11 E., on bottom concrete step of church; chiseled square 548.58
- Sedgewickville, 5.9 mi. E. of, along rd. to Oak Ridge, 200 ft. E. of Caney Fork Creek, 40 ft. S. of rd. forks, on SW. side of main rd., in root on N. side of 36-in. hard maple tree; copper nail and washer 464.76
- Sedgewickville, 6.5 mi. E. of, along rd. to Oak Ridge, 100 ft. E. of T-rd. S., 200 ft. SE. of farmhouse, on S. side of rd., in root on N. side of 30-in. locust tree; copper nail and washer 523.07
- Oak Ridge, 4.3 mi. W. of, along rd. to Sedgewickville, near center of N $\frac{1}{2}$ sec. 2, T. 32 N., R. 11 E., 75 ft. NE. of crossroads, 10 ft. SE. of large white oak tree, in concrete post; standard tablet stamped "Prim Trav Sta No 3 J B L 1921 No 553" 552.867
- Oak Ridge, 3.4 mi. W. of, along rd. to Sedgewickville, in NW $\frac{1}{4}$ sec. 1, T. 32 N., R. 11 E., 50 ft. E. of T-rd. S., on S. side of rd., in root on N. side of persimmon tree; copper nail and washer 590.08
- Oak Ridge, 2.2 mi. W. of, along rd. to Sedgewickville, in NW $\frac{1}{4}$ sec. 6, T. 32 N., R. 12 E., 50 ft. E. of rd. forks, 65 ft. NW. of small house, 3 ft. W. of N-S. fence; iron post stamped "1921 Mo 617" 616.571
- Reference mark, in NE. corner of sandstone rock; chiseled square 616.97
- Oak Ridge, 1.8 mi. W. of, along rd. to Sedgewickville, at N. quarter cor. sec. 6, T. 32 N., R. 12 E., 100 ft. N. of Cape Girardeau Northern R. R., 200 ft. E. of small house, 80 ft. N. of rd. forks, on E. side of rd., in root on NW. side of small black oak tree; copper nail and washer 611.87

(Continued in Ferryville quadrangle; see line no. 2.)

3. FROM WEST BORDER OF QUADRANGLE SOUTHEAST TO LUTESVILLE THENCE NORTH AND WEST TO WEST BORDER (by W. R. Broadus in 1926)
(Continued from Marquand quadrangle; see line no. 4.)

- Lutesville, 0.8 mi. NW. of, on S. side of State Highway 34, opposite Missouri Pacific R. R. trestle no. 889, in top of S. head wall of concrete culvert; chiseled square 431.88
- Lutesville, 212 ft. N. of Missouri Pacific R. R. at public rd. crossing, 150 ft. W. of Presbyterian Church, in SW. corner of yard of Fred Elfrank, in N. edge of concrete sidewalk; standard tablet stamped "P T Sta No 41 S 1926" 417.312
- Reference mark, 215 ft. S. 60° W. of tablet, in top of first step at front entrance of Presbyterian Church; chiseled square 417.44
- Crooked Creek, at Lutesville, under highway bridge; surface of water December 23, 1926 at 4 p. m. 405.2
- Lutesville, 0.5 mi. NE. of, at W. angle of intersection of State Highways 34 and 51, in top of head wall of concrete culvert; chiseled square 422.34
- Lutesville, 1.3 mi. N. of, on S. side of State Highway 51, 50 ft. SE. of junction of old Glenallen road, in top of S. head wall of concrete culvert; chiseled square 425.52
- Lutesville, 2 mi. N. of, along State Highway 51, in NW $\frac{1}{4}$ sec. 31, T. 31 N., R. 10 E., in N. end of E. wing wall of concrete culvert; standard tablet stamped "P T Sta No 40 S 1926" 481.151
- Reference mark, 635 ft. S. of tablet, in top of W. head wall of concrete culvert under highway; chiseled square 470.80
- Lutesville, 3.1 mi. N. of, along State Highway 51, about 0.3 mi. S. of rd. forks, 500 ft. S. of summit of hill, in top of W. head wall of concrete culvert; chiseled square 654.66

(Continued in Marquand quadrangle; see line no. 5.)

4. IN SOUTHEAST CORNER OF QUADRANGLE SOUTHWEST TO SOUTH BORDER (by George W. Moore in 1931)

- Whitewater, 2.2 mi. NE. of, 25 ft. W. of T-rd. N., in top of E. end of S. head wall of large concrete culvert; chiseled square 355.61
- Whitewater, 1.5 mi. NE. of, at NE. corner of crossroads, in top of SE. piling of wooden bridge; copper nail and washer 361.75

(Continued in Advance quadrangle; see line no. 8.)

5. FROM SOUTH BORDER OF QUADRANGLE NORTHWEST ALONG MISSOURI PACIFIC R. R. TO LUTESVILLE
(Continued from Advance quadrangle; see line no. 8.)

- Whitewater, 1.8 mi. NW. of, along Missouri Pacific R. R., on SW. guardtimber of R. R. bridge no. 900; second driftbolt from NW. end 367.47
- Lafin, 3.5 mi. E. of, along Missouri Pacific R. R., 0.3 mi. E. of R. R. bridge no. 899, 45 ft. S. and 24 ft. W. of R. R. at Marble Hill-Whitewater road crossing, in large sandstone rock; standard tablet stamped "P T Sta No 48 S 1926" 378.448
- Reference mark, 33 ft. N. of tablet, 26 ft. W. of crossing, on top of S. end of 24-in. iron culvert; painted square 376.67
- Lafin, 2.7 mi. SE. of, along Missouri Pacific R. R., 50 ft. SW. of track, outside right-of-way fence, in root on SE. side of 11-in. oak tree; copper nail and washer 369.28
- Lafin, 1.9 mi. E. of, along Missouri Pacific R. R., 70 ft. W. of rd. crossing, on S. guardtimber of bridge no. 8978; top of extreme E. driftbolt 381.40

Laflin, 1.5 mi. E. of, along Missouri Pacific R. R., 125 ft. E. of Bollinger-Cape Girardeau county line, on W. end of S. guardtimber of bridge no 897-A; top of W. driftbolt	381.34
Laflin, 0.5 mi. E. of, along Missouri Pacific R. R., in top near center of S. end of E. concrete abutment of bridge no. 897; chiseled square	386.20
Laflin, in NE $\frac{1}{4}$ sec. 13, T. 30 N., R. 10 E., in E. end of concrete porch of store of Elfrink & Son; standard tablet stamped "P T Sta No 47 S 1926"	395.760
Reference mark, 88 ft. SE. of tablet, in park, in root on NE. side of 29-in. locust tree	391.85
Laflin, 1 mi. W. of, along Missouri Pacific R. R., 65 ft. N. and 35 ft. W. of farm rd. crossing, 15 ft. N. and 27 ft. W. of gate to pasture, in root on S. side of 47-in. oak tree; copper nail and washer	386.28
Laflin, 1.3 mi. W. of, along Missouri Pacific R. R., 5 ft. W. of E. end of S. retaining wall of W. concrete abutment of bridge no. 895; chiseled square	399.35
Lutesville, 3 mi. E. of, along Missouri Pacific R. R., 39 ft. N. of R. R. at crossing of Leopold-Marble Hill road, in W. wall of concrete culvert; standard tablet stamped "P T Sta No 46 S 1926"	395.997
Lutesville, 2.6 mi. E. of, along Missouri Pacific R. R., in top of E. end of S. concrete retaining wall of E. abutment of Missouri Pacific R. R. bridge no 894; chiseled square	401.64
Lutesville, 2 mi. E. of, along Missouri Pacific R. R., 0.2 mi. E. of center of R. R. bridge no. 891-A; 49 ft. S. of tracks, 1 ft. N. of right-of-way fence, in root on NW. side of twin, wild cherry tree; copper nail and washer	401.48
Lutesville, 1.4 mi. E. of, along Missouri Pacific R. R., in guardtimber of bridge no. 891; top of NW. driftbolt	408.58
Lutesville, 0.6 mi. E. of, along Missouri Pacific R. R., 5 ft. below track level, 1 ft. NE. of base of SW. girder of large steel bridge no. 890 over Crooked Creek, in top of SW. end of SE. concrete abutment; chiseled square	412.10

6. FROM LUTESVILLE SOUTH ALONG STATE HIGHWAY 51 TO SOUTH BORDER OF QUADRANGLE (by L. V. Johnson in 1931)

Lutesville, near S. limits of, along State Highway 51, about 0.6 mi. S. of Missouri Pacific R. R. station, at NW. corner of steel bridge over O'Possum Creek, in concrete abutment; chiseled square	428.70
Lutesville, 1.5 mi. S. of, along State Highway 51, on N. slope of hill, 380 ft. N. of service station, 14 ft. E. of highway, in head wall of concrete culvert; chiseled square	523.80
Lutesville, 2.2 mi. S. of, along State Highway 51, 400 ft. S. of T-rd. W., 13 ft. W. of highway, in center of W. head wall of concrete culvert; chiseled square	666.45
Lutesville, 3.2 mi. S. of, along State Highway 51, 380 ft. N. of center sec. 19, T. 30 N., R. 10 E., in S. end of W. wing wall of concrete culvert; standard tablet stamped "P T Sta No 42 S 1926"	635.525
Reference mark, opposite side of rd. from tablet, on E. head wall of same culvert; chiseled square	635.30

(Continued in Advance quadrangle; see line no. 7.)

7. FROM MARBLE HILL ALONG STATE HIGHWAY 34 EAST AND NORTHEAST BY WAY OF BURFORDVILLE TO POINT NEAR EAST BORDER OF QUADRANGLE (by W. R. Broadus in 1933)

Marble Hill, at NW. entrance to Bollinger County Courthouse, on NE. end of stone steps; chiseled square	502.77
Marble Hill, 0.7 mi. E. of, along State Highway 34, at NE. corner of bridge over Hurricane Creek, in top of concrete wing wall; chiseled square	423.31
Marble Hill, 1.1 mi. E. of, along State Highway 34, 75 ft. E. of rd. junction at top of ridge, 20 ft. N. of highway, in root on N. side of 18-in. white oak tree; copper nail and washer	543.24
Marble Hill, 1.6 mi. E. of, 100 ft. W. of junction of State Highway 34 and County Road B to Scopus, in top of S. head wall of concrete culvert; chiseled square	543.30
Marble Hill, 2.3 mi. E. of, along State Highway 34, in NW $\frac{1}{4}$ sec. 3, T. 30 N., R. 10 E., 700 ft. E. of farmhouse of Jeff Wisecarver, in N. wing wall of concrete culvert; standard tablet stamped "P T Sta No 50 S 1926"	514.167
Reference mark, 58 ft. S. 60° E. of tablet, in root on E. side of 10-in. boxelder tree; copper nail and washer	512.68
Marble Hill, 3.2 mi. E. of, along State Highway 34, at foot of hill sloping E. in S. wing wall of E. concrete abutment of bridge no. F-750; chiseled square	482.08
Marble Hill, 3.9 mi. E. of, along State Highway 34, 40 ft. W. of junction of rd. SE. at signboard marked "Laflin 3", in top of S. head wall of concrete culvert; chiseled square	482.56
Hog Creek; floor of bridge	416.7
Huskey School, 4.9 mi. NE. of Marble Hill, along State Highway 34, 110 ft. W. of school, 60 ft. E. of rd. junction, in S. wing wall of concrete culvert; standard tablet stamped "P T Sta No 51 S 1926"	437.994
Reference mark, 67 ft. S. 10° E. of tablet, in root on W. side of 30-in. white oak tree; copper nail and washer	432.31
Marble Hill, 5.3 mi. NE. of, along State Highway 34, 85 ft. N. and 20 ft. E. of rd. forks, in root on W. side of 24-in. black oak tree; copper nail and washer	537.84
Marble Hill, 6 mi. NE. of, along State Highway 34, 140 ft. SW. of filling station at rd. fork E., in top of N. head wall of concrete culvert; chiseled square	634.64
Marble Hill, 6.9 mi. NE. of, along State Highway 34, at top of hill, in front of farmhouse, 20 ft. W. of highway, in top of second concrete step on terrace; chiseled square	680.17
Bufordville, 4.1 mi. W. of, along State Highway 34, near quarter cor. between secs. 18 and 19, T. 31 N., R. 11 E., 500 ft. NE. of junction of rd., 480 ft. SW. of Wm. Riehm's farmhouse, in W. wing wall of concrete culvert; standard tablet stamped "P T Sta No 52 S 1926 658"	658.384
Reference mark, 380 ft. SW. of tablet, in top of N. head wall of concrete culvert; chiseled square	668.75

Burfordville, 3.1 mi. W. of, along State Highway 34, 0.4 mi. E. of Bollinger-Cape Girardeau county line, in top of N. head wall of concrete culvert; chiseled square 616.36

Burfordville, 2.3 mi. W. of, along State Highway 34, at Gravel Hill, on W. bank of creek, 50 ft. S. of highway, on county rd., in top of SW. corner of bridge; chiseled square 425.51

Burfordville, 1.3 mi. W. of, along State Highway 34, 340 ft. E. of highway at crossing of old route, in top of S. head wall of concrete culvert; chiseled square 508.27

Burfordville, 330 ft. E. of post office, in SE. corner of concrete porch of garage of P. H. Holmes; standard tablet stamped "P T Sta No 53 S 1926 389" 388.688

Reference mark, 190 ft. W. of tablet, in top of S. head wall of concrete culvert; chiseled square 384.72

Burfordville, 0.6 mi. E. of, along old route of State Highway 34, 175 ft. N. of rd. forks, in top of W. head wall of concrete culvert; chiseled square 387.78

Burfordville, 2 mi. E. of, along State Highway 34, 30 ft. N. of rd., 30 ft. S. and 8 ft. W. of SW. corner of J. W. Craig's farmhouse, in root on SW. side of 18-in. boxelder tree; copper nail and washer 475.84

Burfordville, 2.9 mi. E. of, along State Highway 34, 0.4 mi. E. of crossing of creek, 65 ft. N. of highway, in front of farmhouse, in root on SE. side of 14-in. cedar tree; copper nail and washer 451.91

8. NORTH THROUGH MIDDLE OF NORTH HALF OF QUADRANGLE

Hamstring School, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 31 N., R. 11 E., 0.5 mi. N. of State Highway 34, 220 ft. SE. of schoolhouse, 45 ft. N. and 10 ft. W. of T-rd. W., in root on W. side of 30-in. white oak tree; copper nail and washer 646.36

Hamstring School, 0.8 mi. N. of, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 31 N., R. 11 E., 30 ft. S. of T-rd. S., in root on N. side of 15-in. hickory tree; copper nail and washer 616.94

Scopus, 2.2 mi. E. of post office, 440 ft. S. of lot corner which is 0.8 mi. N. of SW. cor. sec. 6, T. 31 N., R. 11 E., 75 ft. NW. of farmhouse of John J. Hahn, on W. side of entrance to barn lot, near fence post, in limestone boulder; standard tablet stamped "P T Sta No 54 S 1926 597" 597.478

Reference mark, 23 ft. S. 80° W. of tablet, in root on E. side of 15-in. walnut tree; copper nail and washer 597.18

Scopus, 3 mi. E. of, 0.4 mi. W. of rd. forks, in creek valley, at fork of creek S., 12 ft. S. of rd., 15 ft. SW. of small bridge, in root on NW. side of 12-in. walnut tree; copper nail and washer 458.94

T. 32 N., R. 11 E., about 0.3 mi. S. of NW. cor. sec. 31, 15 ft. S. and 40 ft. E. of rd. corner N. and E., on N. side of barn lot, in root on N. side of 30-in. black oak tree; copper nail and washer 593.55

T. 32 N., R. 10 E., near center of SE $\frac{1}{4}$ sec. 25, 35 ft. N. and 30 ft. W. of junction of rd. W. at top of hill, in root on E. side of 30-in. white oak tree; copper nail and washer 587.51

T. 32 N., R. 10 E., in NW $\frac{1}{4}$ sec. 25, 150 ft. N. of N. entrance of ford across Little Whitewater River, 15 ft. E. of rd., in bench on W. side of 30-in. black oak tree; copper nail and washer 442.39

Bridge at rd. fork S. 493.7

Scopus, 3 mi. NE. of post office, in NW $\frac{1}{4}$ sec. 24, T. 32 N., R. 10 E., 0.2 mi. W. of O. S. Propst's farmhouse, 24 ft. N. and 27 ft. W. of T-rd. N., in fence corner, in sandstone ledge; standard tablet stamped "P T Sta No 55 S 1926 523" 523.104

Reference mark, 13 ft. SW. of tablet, in root on N. side of 12-in. cherry tree; copper nail and washer 523.76

T. 32 N., R. 10 E., near center of SW $\frac{1}{4}$ sec. 13, 10 ft. N. and 20 ft. W. of rd. corner from S. to E., at N. end of long tangent, in root on NE. side of 20-in. hickory tree; copper nail and washer 601.80

Trinity Church, about 2 mi. S. of, about 1 mi. S. of U. S. Highway 61, in land grant, 50 ft. S. of S. end of ford across Little Muddy Creek, in root on S. side of 30-in. sycamore tree; copper nail and washer 454.39

T. 32 N., R. 11 E., in NW $\frac{1}{4}$ sec. 7, 218 ft. S. of U. S. Highway 61 at cross rd., 300 ft. SW. of J. W. Johnson's farmhouse, on E. side of rd., in fence corner, in concrete post; standard tablet stamped "P T Sta No 56 S 1926 631" 631.039

Reference mark, 250 ft. N. of tablet, in NE. corner of crossroads, in top of N. head wall of concrete culvert; chiseled square 614.42

T. 32 N., R. 11 E., in SW $\frac{1}{4}$ sec. 6, 0.8 mi. N. of U. S. Highway 61, at foot of hill, 20 ft. N. and 10 ft. E. of junction with private rd. SE., in root on SW. side of 18-in. wild cherry tree; copper nail and washer 477.87

T. 32 N., R. 11 E., in NW $\frac{1}{4}$ sec. 6, 1.7 mi. N. of U. S. Highway 61, 15 ft. N. and 10 ft. E. of rd. corner from S. to E., in root on E. side of 24-in. white oak tree; copper nail and washer 530.93

9. FROM POINT 3 MILES EAST OF SCOPUS WEST TO WEST BORDER OF QUADRANGLE

Scopus, 2.2 mi. E. of, in Panther Creek valley, 200 ft. SW. of Julius Cook's farmhouse, 45 ft. W. and 15 ft. S. of rd. fork S. to D. H. Hahn's house; in root on S. side of 10-in. walnut tree; copper nail and washer 497.30

Scopus, 1.5 mi. E. of, on top of ridge, about 0.1 mi. W. of S. cor. secs. 35 and 36, T. 32 N., R. 10 E., 15 ft. N. and 20 ft. W. of rd. corner from N. to W., in root on SE. side of 12-in. walnut tree; copper nail and washer 586.91

Scopus, 0.5 mi. E. of, in NW $\frac{1}{4}$ sec. 2, T. 31 N., R. 10 E., 90 ft. E. and 20 ft. S. of rd. forks, in root on W. side of 20-in. black oak tree; copper nail and washer 610.19

Scopus, in NE $\frac{1}{4}$ sec. 3, T. 31 N., R. 10 E., in SW. corner of crossroads, 8 ft. S. and 3 ft. E. of center of front steps to residence of Mr. L. L. Bridges, at E. edge of concrete sidewalk, in concrete post flush with ground; standard tablet stamped "1 B 1935 684" 683.587

Reference mark, 48 ft. NE. of tablet, in top of W. head wall of concrete culvert; chiseled square 679.93

Scopus, 0.8 mi. W. of, in front of Phillip Long's house, 30 ft. N. of rd., in root on SE. side of 24-in. white oak tree; copper nail and washer 738.76

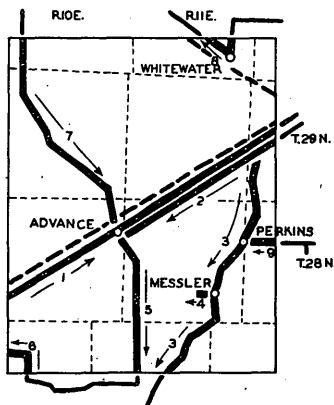
- Coles Church, 1.5 mi. W. of Scopus, along rd. to Hurricane, 45 ft. S. and 25 ft. E. of SE. corner of church, 10 ft. S. and 10 ft. W. of T-rd. N., in root on N. side of 15-in. hickory tree; copper nail and washer 744.44
- Scopus, 2.2 mi. W. of, along rd. to Hurricane, at top of prominent ridge, opposite farmhouse of Elijah Ridings, 12 ft. S. of rd., in root on NE. side of 10-in. black oak tree; copper nail and washer 854.75
- Scopus, 3 mi. W. of, along rd. to Hurricane, in SW $\frac{1}{4}$ sec. 32, T. 32 N., R. 10 E., 31 ft. S. of rd., 35 ft. N. of NW. corner of Lee Estes' farmhouse, 3 ft. NE. of corner fence post; in concrete post; standard tablet stamped "2 B 1933 845" 844.366
- Reference mark, 125 ft. N. 75° E. of tablet, in root on N. side of 20-in. black oak tree; copper nail and washer 841.30
- Scopus, 3.9 mi. W. of, along rd. to Hurricane, near center sec. 31, T. 32 N., R. 10 E., 210 ft. SE. of crossroads, 20 ft. S. of rd., in root on N. side of 15-in. white oak tree; copper nail and washer 877.65
- Scopus, 4.3 mi. W. of, along rd. to Hurricane, 120 ft. W. of rd. forks, 15 ft. N. of rd., in root on S. side of 18-in. white oak tree; copper nail and washer 848.82

(Continued in Marquand quadrangle; see line no. 7.)

For an additional level line along Missouri Pacific R. R., refer to United States Coast and Geodetic Survey second-order line, Fredericktown to Delta.

ADVANCE QUADRANGLE
(Latitude 37°-37°15'; longitude 89°45'-90°)

Bollinger, Cape Girardeau, Scott, and Stoddard Counties



1. FROM WEST BORDER OF QUADRANGLE NORTHEAST ALONG SAINT LOUIS-SAN FRANCISCO R. R. TO EAST BORDER (by E. C. Bibbee in 1914)

(Continued from Zalma quadrangle; see line no. 1.)

- | | <u>Feet</u> |
|--|-------------|
| Sturdivant, 1.9 mi. NE. of, along St. Louis-San Francisco R. R., in S. end of first tie on E. end of trestle no. A-162.7; spike | 352.55 |
| Brownwood, 0.7 mi. SW. of, along St. Louis-San Francisco R. R., in SE. corner of foundation to water tank; copper nail | 357.67 |
| Brownwood, 250 ft. E. of junction of Bloomfield and Hoxie branches of St. Louis-San Francisco R. R., 30 ft. S. of R. R., 10 ft. N. of rd., in garden; iron post stamped "Prim Trav Sta No 9 F 1924 Mo 353" | 353.021 |
| Brownwood, 1.1 mi. NE. of, along St. Louis-San Francisco R. R., 90 ft. N. of track, 3 ft. S. of fence on N. side of public rd., in root of 18-in. elm tree; copper nail | 352.14 |
| Brownwood, 2.1 mi. NE. of, along St. Louis-San Francisco R. R., in front of signboard marked "Sta 1 mi", in base of telegraph pole; rail spike | 351.12 |
| Advance, in SW. corner of schoolyard; iron post stamped "Prim Trav Sta No 8 F 1924 Mo 361" | 361.157 |
| Advance, 1 mi. NE. of, along St. Louis-San Francisco R. R., 5 ft. N. of right-of-way, in county rd., in root of 42-in. maple tree; copper nail | 357.88 |
| Advance, 2.1 mi. NE. of, along St. Louis-San Francisco R. R., 4 ft. S. of right-of-way, in root of white oak tree; copper nail | 346.46 |
| Advance, 3 mi. NE. of, 50 ft. N. of St. Louis-San Francisco R. R., 5 ft. S. of fence corner at corner of Bollinger and Cape Girardeau counties on Stoddard county line; iron post stamped "Prim Trav Sta No 7 F 1924 Mo 347" | 347.673 |
| Green Cox, 0.8 mi. SW. of, along St. Louis-San Francisco R. R., in S. end of first tie on W. end of trestle no. A-154.1; driftspike | 337.64 |
| Green Cox, 300 ft. SW. of St. Louis-San Francisco R. R. station signboard, 100 ft. SE. of R. R., 30 ft. SE. of rd.; iron post stamped "Prim Trav Sta No 6 F 1924 Mo 336" | 335.793 |
| Arbor, 0.8 mi. SW. of, along St. Louis-San Francisco R. R., 45 ft. N. of track, on right-of-way line, in root of 42-in. sweet gum tree; copper nail | 332.69 |
| Arbor, 80 ft. E. of post office, 100 ft. N. of St. Louis-San Francisco R. R. station, 50 ft. NW. of track, 50 ft. N. of rd., 50 ft. E. of house; iron post stamped "Prim Trav Sta No 5 F 1924 340" | 340.491 |

Cliff station, 40 ft. S. of St. Louis-San Francisco R. R., 25 ft. E. of public rd., opposite trestle no. A-149.7, in root of walnut tree; copper nail 338.32
 Delta, 2.6 mi. SW. of, along St. Louis-San Francisco R. R., 52 ft. S. of track, 65 ft. W. of public rd., opposite station sign 1 mile, in root of elm tree; copper nail 338.49
 Delta, 1.7 mi. SW. of, along St. Louis-San Francisco R. R., in S. end of first tie on W. end of trestle no. A-147.8; driftspike 342.94

(Continued in Morley quadrangle; see line no. 1.)

2. FROM EAST BORDER OF QUADRANGLE SOUTHWEST ALONG STATE HIGHWAY 25 TO ADVANCE
 (by L. V. Johnson in 1931)

(Continued from Morley quadrangle; see line no. 9.)

Delta, 1.6 mi. SW. of, along State Highway 25, 80 ft. NE. of rd. forks, about 60 ft. W. of St. Louis Southwestern R. R., 15 ft. E. of sharp curve in highway, in center of E. head wall of concrete culvert; chiseled square 333.77
 Delta, 2 mi. SW. of, along State Highway 25, about 0.4 mi. W. of St. Louis Southwestern R. R., 200 ft. W. of old barn, in E. end of N. head wall of concrete culvert; chiseled square 337.04
 Arbor, 2 mi. NE. of, along State Highway 25, 70 ft. N. of highway at first curve, in SE. wooden wing wall of St. Louis-San Francisco R. R. trestle no. A-148.8; copper nail and washer 338.57
 Arbor, 0.9 mi. NE. of, along State Highway 25, on N. side of highway, in E. end of head wall of large concrete culvert; chiseled square 334.25
 Arbor, 0.7 mi. SW. of, along State Highway 25, in E. end of N. head wall of large concrete culvert over drainage ditch no. 24; chiseled square 333.54
 Green Cox, 0.9 mi. NE. of, along State Highway 25, in E. end of N. head wall of large concrete culvert over drainage ditch no. 27; chiseled square 330.37
 Advance, 3.6 mi. NE. of, along State Highway 25, in concrete wing wall at NW. corner of concrete bridge over drainage ditch no. 25; chiseled square 334.65
 Advance, 1.7 mi. NE. of, along State Highway 25, 500 ft. E. of crossroads at Toga, 13 ft. N. of highway, in E. end of N. head wall of concrete culvert; chiseled square 345.64
 Advance, 1.1 mi. NE. of, along State Highway 25, 500 ft. SW. of rd. forks, 13 ft. S. of highway, in E. end of S. head wall of concrete culvert; chiseled square 338.25
 Advance, at E. limits of, 250 ft. E. of center of triangle formed by intersection of State Highways 25 and 91, 13 ft. S. of highway, in E. end of S. head wall of concrete culvert; chiseled square 359.61

3. FROM POINT NEAR CENTER OF NORTH HALF OF EAST BORDER OF QUADRANGLE SOUTHWEST ALONG ST. LOUIS SOUTHWESTERN R. R. TO SOUTH BORDER

Delta, 2.2 mi. SW. of, along St. Louis Southwestern R. R., in wooden wing wall at NE. corner of wooden trestle no. 58; copper nail and washer 338.78
 Delta, 3.2 mi. SW. of, along St. Louis Southwestern R. R., about 700 ft. S. of curve in R. R., 200 ft. E. of farmhouse, in W. end of SW. concrete abutment of R. R. culvert over creek; chiseled square 340.91
 handles, 0.5 mi. N. of, along St. Louis Southwestern R. R., 45 ft. N. and 40 ft. W. of rd. crossing, in root on S. side of 24-in. maple tree; copper nail and washer 333.62
 Randles, 400 ft. S. of St. Louis Southwestern R. R. station, 100 ft. E. of tracks, 75 ft. W. of post office, 33 ft. S. and 45 ft. W. of crossroads, in concrete post; standard tablet stamped "P T Sta No 102 S 1926" 332.044
 Reference mark, in front of Mathews General Store, in NW. corner of concrete base of gasoline pump; chiseled square 332.16
 Randles, 0.8 mi. S. of, along St. Louis Southwestern R. R., 12 ft. N. and 40 ft. W. of rd. crossing, in N. end of wooden box culvert; copper nail and washer 328.82
 Randles, 1.5 mi. S. of, along St. Louis Southwestern R. R., 100 ft. E. and 12 ft. S. of rd. crossing, 7 ft. E. of fence corner, in root on SW. side of large white oak tree; copper nail and washer 327.42
 Perkins, 0.7 mi. N. of, along St. Louis Southwestern R. R., on E. side of track, about 200 ft. S. of private rd. crossing, about 20 ft. NW. of telegraph pole no. 23, in top of concrete support for extra rail; chiseled square 328.58
 Perkins, 300 ft. NE. of St. Louis Southwestern R. R. station, at NE. corner of general store owned by Raymond Moore, in concrete porch; standard tablet stamped "P T Sta No 101 S 1926" 329.368
 Reference mark, 25 ft. SW. of tablet, in E. corner of concrete floor of porch to frame building; chiseled square 330.37
 Perkins, 0.7 mi. S. of, in sec. 13, T. 28 N., R. 11 E., in top of N. end of W. concrete pier of St. Louis Southwestern R. R. bridge over Whitewater River; (Little River Drainage Commission B. M. designated "86") 332.777
 Painton, 25 ft. N. and 100 ft. W. of main track of St. Louis Southwestern R. R. at E.-W. rd. crossing, in NE. corner of E. end of concrete walk; chiseled square 321.30
 Painton, 0.6 mi. SW. of, along St. Louis Southwestern R. R., in wooden wing wall at SW. corner of wooden trestle no. A-43; copper nail and washer 324.78
 Messler, 180 ft. N. of W. P. Messler's general store, 100 ft. W. of St. Louis Southwestern R. R., in SE. corner of concrete foundation of wagon scales; standard tablet stamped "P T Sta No 100 S 1926" 322.726
 Reference mark, 7 ft. NE. of tablet, in concrete wall; chiseled square 322.74
 Messler, 1 mi. S. of, along St. Louis Southwestern R. R., 12 ft. N. and 35 ft. W. of rd. crossing, in N. end of 30-in. tile culvert; chiseled square 318.96
 Messler, 1.6 mi. S. of, along St. Louis Southwestern R. R., in wooden wing wall at NE. corner of wooden trestle no. 41; copper nail and washer 322.41
 Heagy, 600 ft. SW. of St. Louis Southwestern R. R. at N. rd. crossing, 190 ft. NE. of R. R. switch, in wooden wing wall at SW. corner of wooden trestle no. 39; copper nail and washer 322.44
 Bell City, 0.6 mi. NE. of, along St. Louis Southwestern R. R., 15 ft. S. of track, 15 ft. NE. of telegraph pole no. 29-5, in top of W. concrete support for extra rail; chiseled square 329.22

Bell City, 5 ft. N. of front door of Bell City Bank, in NW. corner of step; standard tablet stamped "P T Sta No 99 S 1926" 326.238
 Reference mark, 40 ft. SE. of bank, in concrete step to old store building; chiseled square 327.20
 Bell City, 1.1 mi. SW. of, along St. Louis Southwestern R. R., at SW. corner of wooden trestle no. 33, in wooden wing wall; copper nail and washer 315.85
 Ardeola, 0.3 mi. NE. of, along St. Louis Southwestern R. R., in wooden wing wall, at NE. corner of wooden trestle no. 32; copper nail and washer 315.90

(Continued in Bloomfield quadrangle; see line no. 11.)

4. FROM MESSLER WEST TO JENKINS BASIN OUTLET

T. 28 N., R. 11 E., sec. 27, at outlet to Jenkins Basin, in head wall of stilling pool; square cut (Little River Drainage Commission B. M.) 321.82

5. FROM ADVANCE EAST AND SOUTH TO SOUTH BORDER OF QUADRANGLE

Advance, 0.7 mi. S. of intersection of State Highways 25 and 91, 15 ft. N. and 15 ft. W. of T-rd. W., in W. end of N. head wall of concrete culvert; chiseled square 357.62
 Advance, 1.6 mi. SE. of, along State Highway 25, 5 ft. S. and 12 ft. W. of corner of highway, in SW. head wall of concrete culvert under old rd.; chiseled square 357.69
 Advance, 2.5 mi. SE. of, along State Highway 25, in NE $\frac{1}{4}$ sec. 24, T. 28 N., R. 10 E., 30 ft. N. and 50 ft. E. of corner of highway, in S. head wall of concrete culvert; chiseled square 354.62
 Advance, 3.3 mi. SE. of, along State Highway 25, 0.2 mi. N. of S. cor. secs. 19 and 24, T. 28 N., Rs. 10 and 11 E., 13 ft. W. of highway, at drain ditch W., in center of W. head wall of concrete culvert; chiseled square 366.74
 Advance, 1.2 mi. E. and 2.8 mi. S. of, along State Highway 25, 0.2 mi. S. of cor. secs. 19, 24, 25, and 30, T. 28 N., Rs. 10 and 11 E., 47 ft. S. and 26 ft. E. of highway at cross rd., 20 ft. S. of fence corner, in concrete post; standard tablet stamped "T T 38 L 1931" 390.065
 Reference mark, in SW. corner of crossroads, in head wall of concrete culvert; chiseled square 389.51
 Advance, 4.3 mi. SE. of, along State Highway 25, 0.2 mi. N. of S. cor. secs. 25 and 30, T. 28 N., Rs. 10 and 11 E., 15 ft. S. and 15 ft. E. of T-rd. E., in S. end of E. head wall of concrete culvert; chiseled square 363.63
 Advance, 4.7 mi. SE. of, along State Highway 25, about 600 ft. S. of N. cor. secs. 31 and 36, T. 28 N., Rs. 10 and 11 E., 575 ft. N. of T-rd. E., at SE. corner of bridge over creek, in concrete abutment; chiseled square 364.97
 Advance, 5.6 mi. S. of, along State Highway 25, near S. cor. secs. 31 and 36, T. 28 N., Rs. 10 and 11 E., 15 ft. E. of corner of highway, in center of E. head wall of concrete culvert; chiseled square 368.54
 T. 27 N., R. 11 E., about 0.6 mi. S. of N. cor. secs. 5 and 6, 0.2 mi. N. along State Highway 25 from junction of Bell City road, 28 ft. W. and 23 ft. S. of highway at rd. W., 9 ft. S. of fence corner, in concrete post; standard tablet stamped "T T 37 L 1931" 396.383
 Reference mark, 350 ft. N. of T-rd. E., at SE. corner of concrete bridge over drain, in concrete abutment; chiseled square 377.58
 Advance, 7.3 mi. SE. of, along State Highway 25, 0.7 mi. N. and 0.2 mi. E. of S. cor. secs. 5 and 6, T. 27 N., R. 11 E., 82 ft. E. of SE. corner of church, in root on SW. side of 12-in. hickory tree; copper nail and washer 463.37
 T. 27 N., R. 11 E., about 350 ft. N. of S. cor. secs. 5 and 6, in SW. concrete abutment of highway bridge over Wolf Creek; chiseled square 395.73

(Continued in Bloomfield quadrangle; see line no. 10.)

6. IN SOUTHWEST CORNER OF QUADRANGLE, FROM SOUTH BORDER NORTH AND WEST TO WEST BORDER (Continued from Bloomfield quadrangle; see line no. 10.)

T. 27 N., R. 10 E., cor. secs. 3, 4, 9, and 10, 15 ft. S. and 20 ft. W. of crossroads, in S. end of iron pipe culvert; chiseled square 364.24
 Leora, 0.5 mi. N. and 2 mi. E. of, 38 ft. E. and 19 ft. N. of cor. secs. 4, 5, 8, and 9, T. 27 N., R. 10 E., 17 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 28 L 1931" 340.938
 Reference mark, 120 ft. N. and 27 ft. W. of crossroads, in root on S. side of 15-in. oak tree; copper nail and washer 339.53
 T. 27 N., R. 10 E., near cor. secs. 5, 6, 7, and 8, 13 ft. S. and 30 ft. W. of small bridge over drainage ditch, at fence N., in root on SW. side of 24-in. oak tree; copper nail and washer 343.19

(Continued in Zalma quadrangle; see line no. 7.)

7. FROM NORTH BORDER OF QUADRANGLE, NEAR NORTHWEST CORNER, SOUTHEAST ALONG STATE HIGHWAYS 51 AND 91 TO ADVANCE (Continued from Marble Hill quadrangle; see line no. 6.)

Lutesville, 4.2 mi. S. of, along State Highway 51, in concrete abutment at S. corner of bridge over Dry Creek; chiseled square 597.88
 Lutesville, 5.1 mi. S. of, along State Highway 51, 850 ft. S. of private rd. E. to F. A. Messenger's farmhouse, 40 ft. N. and 15 ft. W. of highway at T-fence W., in W. head wall of concrete culvert over drain; chiseled square 626.90
 Lutesville, 6.5 mi. S. of, along State Highway 51, near quarter cor. between secs. 5 and 6, T. 29 N., R. 10 E., at angle in highway from N. to SE., 225 ft. SE. of M. S. Baker's farmhouse, in W. end of N. wing wall of concrete culvert; standard tablet stamped "P T Sta No 43 S 1926" 603.530

Reference mark, 40 ft. S. of tablet, in head wall of concrete culvert under old rd.; chiseled square 600.54
 Lutesville, 7.5 mi. S. of, along State Highway 51, near quarter cor. between secs. 5 and 8, T. 29 N., R. 10 E., about 600 ft. W. of Johnson School, 30 ft. W. of highway; in root on NE. side of 12-in. oak tree; copper nail and washer 605.91
 Dongola, about 1 mi. N. of, along State Highway 51, near NE. cor. sec. 17, T. 29 N., R. 10 E.; 30 ft. S. and 15 ft. E. of highway at N.-S. rd., near foot of hill known locally as Null Hill, in E. head wall of concrete culvert; chiseled square 412.71
 Dongola, 1 mi. E. of, 50 ft. S. of intersection of State Highway 51 and 91, in S. head wall of concrete culvert; chiseled square 368.76
 Dongola, in SE $\frac{1}{4}$ sec. 20, T. 29 N., R. 10 E., 36 ft. S. and 30 ft. E. of junction of State Highway 51 and Greenbrier road, in concrete post; standard tablet stamped "P T Sta No 44 S 1926" 372.632
 Reference mark, 350 ft. N. of tablet, in S. head wall of concrete culvert under highway; chiseled square 372.56
 Advance, 5.1 mi. NW. of, along State Highway 91, 430 ft. S. of end of pavement, 13 ft. W. of highway, in W. head wall of concrete culvert over drainage ditch; chiseled square 363.45
 Advance, 4.3 mi. NW. of, along State Highway 91, about 1 mi. NW. of steel bridge over diversion channel, about 750 ft. NW. of curve to E. in highway, in S. head wall of concrete culvert; chiseled square 361.14
 Advance, 3.2 mi. NW. of, along State Highway 91, in concrete abutment at S. corner of steel bridge; chiseled square 370.79
 Advance, 2.5 mi. N. of, along State Highway 91, in NE $\frac{1}{4}$ sec. 35, T. 29 N., R. 10 E., 400 ft. N. of house of F. O. Schlafitz, in W. wing wall of concrete culvert; standard tablet stamped "P T Sta No 45 S 1926" 355.783
 Reference mark, opposite side of rd. from tablet, in E. head wall of same culvert; chiseled square 355.35
 Advance, 1.6 mi. N. of, along State Highway 91, 17 ft. N. and 17 ft. W. of cross rd. at Bollinger-Stoddard county line, in W. head wall of concrete culvert; chiseled square 352.35
 Advance, 0.8 mi. N. of, along State Highway 91, 10 ft. N. and 20 ft. E. of private rd. E. through gate to farmhouse, in N. end of 12-in. tile culvert; chiseled square 354.06

8. FROM NORTH BORDER SOUTHWEST TO WHITEWATER THENCE NORTHWEST TO NORTH BORDER (by G. W. Moore in 1931)

(Continued from Marble Hill quadrangle; see line no. 4.)

Whitewater, 0.5 mi. NE. of, on SE. edge of rd., in top of SW. end of SE. head wall of concrete culvert; chiseled square 373.58
 Whitewater, 3 ft. NW. of SW. corner of Whitewater Bank, in concrete sidewalk; standard tablet stamped "P T Sta No 49 S 1926" 370.275
 Reference mark, at SW. corner of Whitewater Bank, in concrete sidewalk; chiseled square 370.28
 Whitewater, 0.7 mi. NW. of, 70 ft. S. of Missouri Pacific R. R. at rd. crossing, 215 ft. W. of rd. forks, in top of E. end of N. head wall of concrete culvert; chiseled square 365.46
 Whitewater, 1.1 mi. NW. of, along Missouri Pacific R. R., opposite highway bridge at curve, in E. end of S. head wall of R. R. culvert; chiseled square 360.92

(Continued in Marble Hill quadrangle; see line no. 5.)

9. FROM EAST BORDER OF QUADRANGLE WEST TO PERKINS (by H. P. Jones in 1931)

(Continued from Morley quadrangle; see line no. 5.)

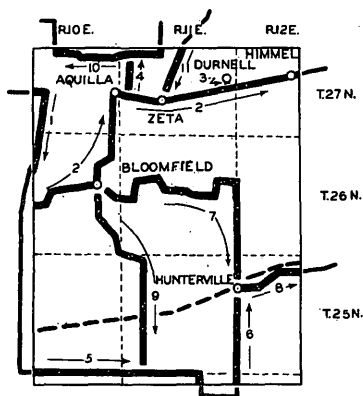
Perkins, 1.3 mi. E. of, along Oran-Perkins road, 0.25 mi. E. of W. cor. secs. 8 and 17, T. 28 N., R. 12 E., 20 ft. N. and 50 ft. E. of center of wooden bridge over drainage ditch, in root on SW. side of 18-in. oak tree; copper nail and washer 321.16

For an additional level line along St. Louis-San Francisco R. R., refer to United States Coast and Geodetic Survey first-order line, Cape Girardeau, Mo. to Hoxie, Ark. For an additional line along Missouri Pacific R. R., refer to United States Coast and Geodetic Survey second-order line, Fredericktown to Delta.

SPIRIT LEVELING IN MISSOURI

BLOOMFIELD QUADRANGLE
(Latitude $36^{\circ}45'-37^{\circ}$; longitude $89^{\circ}45'-90^{\circ}$)

Stoddard County



1. SOUTH ALONG WEST BORDER IN NORTHWEST QUARTER OF QUADRANGLE (by E. W. Gouchenour in 1931)

(Continued from Puxico quadrangle; see line no. 9.)

	<u>Feet</u>
Leora, 2.5 mi. S. and 1 mi. E. of, 0.3 mi. NW. of Zion Church, 60 ft. W. and 17 ft. N. of rd. fork W., in concrete post; standard tablet stamped "T T 25 L 1931"	377.146
Reference mark, 150 ft. S. of rd. forks, 20 ft. W. of rd., in top of large stump; copper nail and washer	378.86
T. 27 N., R. 10 E., 0.2 mi. S. of cor. secs. 29, 30, 31, and 32, 33 ft. N. and 33 ft. W. of crossroads, in root on E. side of small sycamore tree; copper nail and washer	406.83
T. 26 N., R. 10 E., 15 ft. N. and 105 ft. W. of T-rd. S. at N. cor. secs. 5 and 6, in fence line, in root on S. side of black oak tree; copper nail and washer	471.47

(Continued in Puxico quadrangle; see line no. 10.)

2. FROM WEST BORDER OF QUADRANGLE EAST TO BLOOMFIELD, THENCE NORTH TO AQUILLA, THENCE EAST, BY WAY OF ZETA, TO HIMMEL AND EAST BORDER

T. 26 N., R. 10 E., 0.2 mi. N. of cor. secs. 20, 21, 28, and 29, 60 ft. N. and 75 ft. E. of crossroads, in field, in root on S. side of white oak tree; copper nail and washer	454.44
T. 26 N., R. 10 E., 0.2 mi. N. of cor. secs. 21, 22, 27, and 28, about 500 ft. N. and 20 ft. E. of T-rd. W., in stump of persimmon tree; copper nail and washer	496.48
Bloomfield, 2 mi. W. of, in NW $\frac{1}{4}$ sec. 22, T. 26 N., R. 10 E., 65 ft. S. and 40 ft. E. of T-rd. S., 75 ft. E. of dim rd. N., 24 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 22 L 1931"	447.149
Reference mark, 25 ft. W. of T-rd. S., in concrete retaining wall; chiseled square	447.69
Bloomfield, 1.5 mi. W. of, in SE. concrete abutment of small steel bridge; chiseled square	436.44
Bloomfield, 1 mi. W. of, in NW. concrete abutment of steel girder bridge across Tedrick Creek; chiseled square	421.94
Bloomfield, in W. limits of, at SW. corner of yard of house of W. M. Lyles, in concrete retaining wall; chiseled square	493.54
Bloomfield, at S. entrance to Stoddard County Courthouse, in angle of brick wall, in top of E. end of second concrete step; standard tablet stamped "T T 21 L 1931"	497.372
Reference mark, 60 ft. S. of tablet, in N. edge of concrete curb to cannon platform; chiseled square	494.71
Bloomfield, 1 mi. N. of, along State Highway 25, in SW. corner of concrete abutment of steel girder bridge across Lick Creek; chiseled square	404.22
Bloomfield, about 1.2 mi. N. and 0.2 mi. E. of, along State Highway 25, about 200 ft. N. of T-rd. N., in NW $\frac{1}{4}$ sec. 13, T. 26 N., R. 10 E., in E. head wall of concrete culvert; chiseled square	405.32
Bloomfield, 2 mi. N. of, along State Highway 25, 0.2 mi. E. of quarter corner between secs. 11 and 12, T. 26 N., R. 10 E., at T-rd. E., in E. head wall of concrete culvert; chiseled square	425.71
Bloomfield, 2.2 mi. N. and 0.2 mi. E. of, along State Highway 25, 12 ft. S. and 75 ft. W. of SW. corner of J. W. Cooper's house, on SE. side of rd., at telephone pole, in fence corner, in concrete post; standard tablet stamped "1 G 1931"	477.122
Reference mark, on bottom step of sidewalk leading to W. entrance of J. W. Cooper's house; painted square	476.80
Aquilla, 1.7 mi. SW. of, along State Highway 25, in N. end of E. hub guard on concrete bridge over Link Creek; chiseled square	373.89
Aquilla, 0.8 mi. SW. of, along State Highway 25, near center sec. 36, T. 27 N., R. 10 E., 20 ft. S. and 30 ft. W. of crossroads, in S. head wall of concrete culvert; chiseled square	355.79

- Aquilla, 0.5 mi. N. of, near quarter cor. between secs. 25 and 30, T. 27 N., Rs. 10 and 11 E., 500 ft. N. of steel bridge over Castor River, 135 ft. E. of St. Louis-San Francisco R. R. at crossing of State Highway 25, 20 ft. N. of track, on high bank, in concrete post; standard tablet stamped "P T Sta No 97 S 1926" 339.770
- Zeta, 1.2 mi. SW. of, along St. Louis-San Francisco R. R., on SE. corner of wooden bridge no. D-175.2; copper nail and washer 326.84
- Zeta, 0.5 mi. SW. of, along St. Louis-San Francisco R. R., 40 ft. S. and 65 ft. E. of rd. crossing, inside R. R. right-of-way, in root on NW. side of hickory tree; copper nail and washer 322.86
- T. 27 N., R. 11 E., near S. quarter cor. sec. 28, in NE. corner of N. concrete abutment of St. Louis Southwestern R. R. bridge over Castor River; chisel cut (Little River Drainage Commission B. M. designated "107") 324.43
- Zeta, 240 ft. N. of R. R. depot, 50 ft. W. of St. Louis Southwestern R. R. track, 100 ft. N. 20° W. of crossing of St. Louis-San Francisco R. R., in concrete post; standard tablet stamped "T T 30 L 1931" 320.236
- Reference mark, in SE. corner of concrete base to signal at R. R. depot window; chiseled square 324.48
- Zeta, 0.7 mi. NE. of, 36 ft. N. and 250 ft. E. of St. Louis-San Francisco R. R. at rd. crossing, in top of stump; copper nail and washer 319.01
- T. 27 N., R. 11 E., near cor. secs. 22, 23, 26, and 27, 70 ft. S. and 240 ft. W. of crossroads, at NW. corner of schoolyard, in root on NE. side of white oak tree; copper nail and washer 315.92
- T. 27 N., R. 11 E., near cor. secs. 23, 24, 25, and 26, in NE. abutment of bridge; copper nail and washer 308.44
- T. 27 N., R. 11 E., near quarter cor. between secs. 24 and 25, 35 ft. N. and 65 ft. W. of T-rd. N., in root on S. side of white oak tree; copper nail and washer 309.01
- Durnell, 275 ft. E. of St. Louis-San Francisco R. R. station sign, 49 ft. N. and 30 ft. E. of R. R. at rd. N., 9 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 31 L 1931" 309.321
- T. 27 N., R. 12 E., near SW. cor. sec. 19, 75 ft. E. of center line of drainage ditch, about 15 ft. N. of rd. corner from W. to S.; concrete post (Little River Drainage Commission B. M. designated "100") 310.327
- Durnell, 1.5 mi. NE. of, along St. Louis-San Francisco R. R. in SE. corner of bridge; painted bolt head 311.94
- Himmel, 170 ft. W. of St. Louis-San Francisco R. R. station sign, 130 ft. E. of drainage ditch, 81 ft. E. and 47 ft. S. of R. R. at rd. crossing, in concrete post; standard tablet stamped "T T 32 L 1931" 308.541
- Reference mark, SE. of tablet, in pasture, in root on N. side of hickory tree 308.12

(Continued in Sikeston quadrangle; see line no. 5.)

3. LITTLE RIVER DRAINAGE COMMISSION BENCHMARK NEAR DURNELL

- T. 27 N., R. 11 E., SW $\frac{1}{4}$ sec. 24, 70 ft. E. of center of drainage ditch no. 30, against N. right-of-way fence, in concrete post; bolt (Little River Drainage Commission B. M. designated "99") 308.470

4. FROM AQUILLA NORTH ALONG STATE HIGHWAY 25 TO POINT NEAR NORTH BORDER OF QUADRANGLE

- T. 27 N., R. 11 E., near cor. secs. 19, 20, 29, and 30, 60 ft. N. and 20 ft. E. of crossroads, in root on W. side of 12-in. walnut tree; copper nail and washer 393.68
- T. 27 N., R. 11 E., about 0.2 mi. N. of cor. secs. 17, 18, 19, and 20, on W. side of rd., in concrete curb of spring; chiseled square 431.32
- Ardeola, 3 mi. W. and 0.5 mi. S. of, in S. end of E. hub guard of concrete bridge; chiseled square 413.64

5. EAST ALONG WEST HALF OF SOUTH BORDER OF QUADRANGLE (by E. W. Goucheur and L. V. Johnson in 1931)

(Continued from Fuxico quadrangle; see line no. 10.)

- T. 24 N., R. 10 E., in NE $\frac{1}{4}$ sec. 4, 25 ft. S. and 10 ft. W. of rd. fork N., in stump; copper nail and washer 450.51
- Dexter, 2.5 mi. S. of, along State Highway 25, 56 ft. E. and 21 ft. N. of highway at E-W cross rd., 21 ft. N. and 26 ft. W. of St. Louis Southwestern R. R. at rd. crossing; iron post stamped "U S C E Q 6 C 147" 315.016
- Reference mark, 50 ft. W. of post, in NE. corner of E. head wall of concrete culvert; chiseled square 316.02
- Dexter, 2.5 mi. S. and 1 mi. E. of, about 0.3 mi. E. of S. cor. secs. 34 and 35, T. 25 N., R. 10 E., 11 ft. S. and 26 ft. E. of crossroads, in center of SW. concrete wing wall of steel bridge; chiseled square 299.19
- Dexter, 2.5 mi. S. and 1.8 mi. E. of, 75 ft. S. and 200 ft. E. of T-rd. N. at S. cor. secs. 35 and 36, T. 25 N., R. 10 E., in NW. corner of lower concrete step at entrance to Tatum School; chiseled square 294.23
- Dexter, 2.5 mi. S. and 2.6 mi. E. of, near cor. Tps. 24 and 25 N., Rs. 10 and 11 E., 65 ft. W. and 12 ft. N. of crossroads, in root on SW. side of 24-in. hickory tree; copper nail and washer 295.30
- Dexter, 3 mi. E. and 2.5 mi. S. of, 32 ft. N. and 33 ft. W. of T-rd. N. at S. cor. secs. 31 and 32, T. 25 N., R. 11 E., 8 ft. N. and 16 ft. W. of 32-in. black oak tree; iron post stamped "U S C E Q 6 C 134" 294.312
- Frisco, 1 mi. W. of, near N. cor. secs. 4 and 5, T. 24 N., R. 11 E., 12 ft. N. and 65 ft. W. of T-rd. S., in root on S. side of 15-in. sycamore tree; copper nail and washer 293.91
- Frisco, 40 ft. N. and 80 ft. E. of T-rd. N., at S. cor. secs. 33 and 34, T. 25 N., R. 11 E., 20 ft. SE. of SE. corner of general store, in root on S. side of 24-in. sweet gum tree; copper nail and washer 292.68

Frisco, 1 mi. E. of, 47 ft. W. and 22 ft. N. of T-rd. N. at S. cor. secs. 34 and 35,
T. 25 N., R. 11 E., 284 ft. W. of T-rd. S. at N. cor. secs. 2 and 3, T. 24 N.,
R. 11 E., 26 ft. W. of fence corner, in concrete post; standard tablet stamped
"T T 49 L 1931" 294.043

(Continued in Malden quadrangle; see line no. 2.)

6. FROM SOUTH BORDER OF QUADRANGLE NORTH TO HUNTERVILLE (by L. V. Johnson in 1931)
(Continued from Malden quadrangle; see line no. 2.)

Hunterville, 4.2 mi. S. of, 65 ft. S. and 35 ft. E. of crossroads at cor. secs. 1, 6,
31, and 36, Tps. 24 and 25 N., Rs. 11 and 12 E., 25 ft. W. of shack, in root
on W. side of 18-in. oak tree; copper nail and washer 292.80
Hunterville, 3.2 mi. S. of, 16 ft. S. and 20 ft. W. of T-rd. W. at E. cor. secs. 25
and 36, T. 25 N., R. 11 E., in S. end of iron pipe culvert; chiseled and
painted square 293.98
Hunterville, 2.3 mi. S. of, 30 ft. E. and 25 ft. S. of T-rd. E. at W. cor. secs. 19
and 30, T. 25 N., R. 12 E., in concrete post; standard tablet stamped "T T 3
C 1931" 293.410
Reference mark in SW. corner of T-rd. W., in S. end of iron pipe culvert;
chiseled and painted square 293.55
Hunterville, 1.2 mi. S. of, 35 ft. S. and 25 ft. E. of T-rd. E. at W. cor. secs. 18
and 19, T. 25 N., R. 12 E., in root on W. side of 18-in. tree; copper nail
and washer 294.20

7. FROM BLOOMFIELD EAST ABOUT 7 MILES, THENCE SOUTH TO HUNTERVILLE (by E. W. Gouchenour
in 1931)

Bloomfield, at E. edge of, on Bloomfield-Essex road, in N. end of W. abutment
of steel girder bridge over creek; chiseled square 428.82
Bloomfield, 1.1 mi. E. of, along County Route E., in N. end of concrete abutment
of steel girder bridge over drain; chiseled square 430.10
Bloomfield, 1.5 mi. E. of, along Hale Road, in front of barnlot gate to G. Baker's
farm, in root on S. side of white oak tree; copper nail and washer 418.04
Bloomfield, 2 mi. E. of, along Hale Road, in NW $\frac{1}{4}$ sec. 20, T. 26 N., R. 11 E., 26 ft.
E. and 36 ft. S. of center of bridge over creek, 10 ft. W. and 36 ft. S. of
T-rd. N., 16 ft. S. of fence corner, in concrete post; standard tablet stamped
"T T 33 L 1931" 432.959
Reference mark, in N. end of W. abutment of drainage ditch; chiseled square 432.14
Bloomfield, 3 mi. E. of, along Hale Road, 12 ft. S. and 50 ft. E. of T-rd. N. at cor.
secs. 16, 17, 20, and 21, T. 26 N., R. 11 E., in root on N. side of white oak
tree; copper nail and washer 463.34
T. 26 N., R. 11 E., near quarter cor. between secs. 16 and 21, 10 ft. N. and 15
ft. E. of crossroads, on N. end of tile culvert; painted square 455.90
T. 26 N., R. 11 E., 0.2 mi. S. of cor. secs. 15, 16, 21, and 22, about 300 ft.
N. and 60 ft. E. of T-rd. E., in pasture, in root on E. side of elm tree;
copper nail and washer 516.16
T. 26 N., R. 11 E., in NE $\frac{1}{4}$ sec. 22, 25 ft. W. of rd. fork N., in root on E. side
of white oak tree; copper nail and washer 511.04
Idalia, 3 mi. NE. of, along old Bluff road, on land owned and occupied by J. M. Hopkins,
30 meters (98 ft.) W. of rd. fork in SE. corner of small peach orchard, 7.3 meters
(24 ft.) NW. of top of cut in rd.; standard U. S. C. & G. S. triangulation
station tablet stamped "Idalia" (elevation undetermined)
Reference mark, E. of station, 6 meters (19 ft.) S. of rd. E., 20 meters (64 ft.) E. of
rd. forks, in concrete post; U. S. C. & G. S. standard reference tablet 571.060
T. 26 N., R. 11 E., in SE $\frac{1}{4}$ sec. 14, 50 ft. S. and 30 ft. E. of rd. forks, in
root on W. side of hickory tree; copper nail and washer 493.63
T. 26 N., R. 11 E., in SE $\frac{1}{4}$ sec. 14, 140 ft. N. and 20 ft. W. of rd. forks on
bluff, in oak stump; copper nail and washer 324.08
Quam, 217 ft. S. and 10 ft. E. of E. rail of St. Louis Southwestern R. R. at
switch; iron post 320.941
T. 26 N., R. 12 E., 0.2 mi. S. of W. cor. secs. 7 and 18, 25 ft. S. and 12 ft. E.
of T-rd. S., in root on S. side of large oak tree; copper nail and washer 310.13
T. 26 N., R. 12 E., 0.2 mi. S. of W. cor. secs. 18 and 19, 200 ft. S. and 30 ft. E.
of T-rd. W., in front of F. W. Wilson's residence, in root on S. side of 20-
in. oak tree; copper nail and washer 309.86
S. end of iron pipe culvert; painted square 304.30
T. 26 N., R. 11 and 12 E., near quarter cor. between secs. 25 and 30, 25 ft. S. and
22 ft. E. of T-rd. E., 9 ft. S. and 2 ft. W. of fence corner, in concrete post;
standard tablet stamped "T T 19 E 1931" 301.857
Reference mark, 20 ft. S. and 40 ft. E. of tablet, in root on W. side of large
oak tree; copper nail and washer 301.90
Girder of iron bridge; painted square 300.64
T. 26 N., R. 11 and 12 E., 0.7 mi. N. of S. cor. secs. 31 and 36, 30 ft. S. and 45
ft. E. of crossroads, in root on SW. side of twin willow tree; copper nail and
washer 298.83
Tps. 25 and 26 N., Rs. 11 and 12 E., near cor. of, 18 ft. S. and 15 ft. E. of
crossroads, in root of large elm tree; copper nail and washer 298.50
T. 25 N., R. 12 E., in SW $\frac{1}{4}$ sec. 6, 65 ft. N. and 40 ft. E. of center of rd. at
E. end of bridge across drainage ditch; copper nail and washer 296.85

8. FROM HUNTERVILLE EAST TO EAST BORDER OF QUADRANGLE (by E. W. Gouchenour and
L. V. Johnson in 1931)

Hunterville, 43 ft. E. and 49 ft. N. of Missouri Pacific R. R. at public rd. cross-
ing, in concrete post; standard tablet stamped "T T 2 C 1931" 297.732
Reference mark, 260 ft. N. of tablet, in root on W. side of large tree; copper
nail and washer 297.21

Hunterville, 0.2 mi. S. and 1 mi. E. of, along U. S. Highway 60, near cor. secs. 7, 8, 17, and 18, T. 25 N., R. 12 E., in S. end of E. abutment of steel bridge over drainage ditch; chiseled square 297.50
 Grayridge, 0.5 mi. S. of, along U. S. Highway 60, near right angle turn, in S. fence line, in root on N. side of oak tree; copper nail and washer 295.73
 Grayridge, 0.8 mi. E. of, along U. S. Highway 60, in NW $\frac{1}{4}$ sec. 9, T. 25 N., R. 12 E., 35 ft. S. of highway, 45 ft. E. of property line, in concrete post; standard tablet stamped "T T C 1931" 294.989
 Reference mark, 0.5 mi. E. of Grayridge, along U. S. Highway 60, in E. abutment of concrete bridge over Little River drainage ditch no. 42; chiseled square 300.73
 Grayridge, 1.5 mi. E. of, along U. S. Highway 60, in N. end of W. abutment of concrete bridge over Little River drainage ditch no. 41; chiseled cross (Little River Drainage Commission B. M.) 300.67

(Continued in Sikeston quadrangle; see line no. 6.)

9. FROM BLOOMFIELD SOUTHEAST AND SOUTH TO POINT NEAR CENTER OF SOUTH BORDER OF QUADRANGLE (by L. V. Johnson in 1931)

Bloomfield, 0.8 mi. S. of courthouse, 12 ft. N. and 25 ft. E. of State Highway 25 at private rd. E. to brick farmhouse, on E. side of highway, in concrete base of corner fence post; chiseled square 540.28
 Bloomfield, 1 mi. S. of, along State Highway 25, on Stoddard County Farm for the poor, about 0.1 mi. SW. of home, about 200 yds. S. of barn, in field, on highest point of small knoll; standard U. S. C. & G. S. triangulation station tablet stamped "Poor" 574.564
 Reference mark, N. of station, about 80 meters SW. of barn, 2 ft. S. of fence at E. end of rail section; U. S. C. & G. S. standard reference tablet 568.60
 Bloomfield, 2.1 mi. S. of, along State Highway 25, about 250 ft. S. of cross rd., on E. side of highway, in N. end of E. head wall of concrete culvert over creek; chiseled square 521.64
 T. 26 N., R. 10 E., 0.25 mi. S. of quarter cor. between secs. 35 and 36, about 300 ft. SW. of farmhouse, 25 ft. W. and 8 ft. N. of rd. corner S. and W., in head wall of concrete culvert; chiseled square 565.84
 T. 25 N., R. 10 E., in NW $\frac{1}{4}$ sec. 1, 0.7 mi. SE. of farmhouse, on S. side of rd. near right angle turn, where rd. crosses small knoll, in root on N. side of 8-in. oak tree; copper nail and washer 513.57
 Dexter, 1.5 mi. E. and 2.5 mi. N. of, near quarter cor. between secs. 1 and 12, T. 25 N., R. 10 E., 35 ft. S. and 10 ft. W. of T-rd. N., 18 ft. S. of fence corner, in concrete post; standard tablet stamped "T T 39 L 1931" 345.473
 Reference mark, 80 ft. N. and 45 ft. W. of T-rd. N., 45 ft. NW. of gate, in root on S. side of 12-in. hickory tree; copper nail and washer 346.47
 T. 25 N., R. 10 and 11 E., cor. secs. 1, 6, 7, and 12, 180 ft. E. and 30 ft. N. of St. Louis Southwestern R. R. at E-W rd. crossing, 70 ft. S. and 20 ft. W. of T-rd. E., 20 ft. SE. of SE. corner of house, in root on NE. side of oak tree; copper nail and washer 318.39
 T. 25 N., R. 11 E., cor. secs. 5, 6, 7, and 8, 45 ft. N. and 75 ft. W. of T-rd. S., inside fence, in root on S. side of 12-in. tree; copper nail and washer 300.04
 T. 25 N., R. 11 E., cor. secs. 7, 8, 17, and 18, 12 ft. S. and 17 ft. E. of crossroads, in SW. end of SW. concrete wing wall of small wooden bridge over drain; chiseled square 299.60
 Dexter, 3 mi. E. and 0.8 mi. N. of, 0.3 mi. N. of cor. secs. 17, 18, 19, and 20, T. 25 N., R. 11 E., 53 ft. S. and 31 ft. W. of Missouri Pacific R. R. at rd. crossing, 16 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 40 L 1931" 301.158
 Reference mark, 1,700 ft. S. of tablet, 15 ft. N. and 10 ft. E. of crossroads, in E. end of 12-in. concrete culvert; chiseled square 296.94
 Dexter, 3 mi. E. of, near cor. secs. 19, 20, 29, and 30, T. 25 N., R. 11 E., 12 ft. E. and 18 ft. N. of U. S. Highway 61 at N-S cross rd., in concrete head wall; chiseled square 296.18
 T. 25 N., R. 11 E., 650 ft. S. of cor. secs. 29, 30, 31, and 32, and crossroads, 33 ft. N. and 12 ft. E. of rd. in front of Walnut Lane' farmhouse, in NW. corner of concrete base of mail box; chiseled square 297.35

10. WEST ALONG WEST HALF OF NORTH BORDER OF QUADRANGLE

(Continued from Advance quadrangle; see line no. 5.)

Aquilla, 3.5 mi. N. of, along State Highway 25, near quarter cor. between secs. 7 and 8, T. 27 N., R. 11 E., 182 ft. W. of highway, 27 ft. S. of rd. W., 17 ft. S. of rd. E., 60 ft. NW. of NW. corner of old schoolhouse, in concrete post; standard tablet stamped "T T 29 L 1931" 437.098
 Reference mark, NE. corner of crossroads, in concrete head wall of culvert; chiseled square 433.85
 T. 27 N., R. 10 and 11 E., 0.2 mi. N. of quarter cor. between secs. 12 and 13, N. and 35 ft. E. of rd. forks, in SW. corner of farmyard, in root on S. side of 18-in. oak tree; copper nail and washer 453.13
 T. 27 N., R. 10 E., 0.3 mi. W. of cor. secs. 11, 12, 13, and 14, 23 ft. S. and 60 ft. W. of T-rd. S., 6 ft. N. of fence line, in root on S. side of 10-in. oak tree; copper nail and washer 467.46
 Zadoc, 150 ft. E. of C. C. Lewis' general store, 24 ft. S. and 27 ft. E. of St. Louis-San Francisco R. R. at public rd. crossing, on high bank, in concrete post; standard tablet stamped "P T Sta No 96 S 1926" 418.151
 T. 27 N., R. 10 E., 0.2 mi. S. of cor. secs. 10, 11, 14, and 15, 20 ft. N. and 18 ft. W. of crossroads, at NE. end of gate, in root on W. side of 14-in. tree; copper nail and washer 477.87
 T. 27 N., R. 10 E., about 0.25 mi. S. of center sec. 10, in center of triangle formed by T-rd. S., in root on W. side of 12-in. oak tree; copper nail and washer 454.81

T. 27 N., R. 10 E., about 0.2 mi. S. of quarter cor. between secs. 9 and 10, 85 ft. S. and 15 ft. E. of T-rd. E., in root on W. side of 18-in. oak tree; copper nail and washer 362.00

(Continued in Advance quadrangle; see line no. 6.)

11. FROM NORTH BORDER OF QUADRANGLE SOUTHWEST ALONG ST. LOUIS SOUTHWESTERN R. R. TO ZETA.

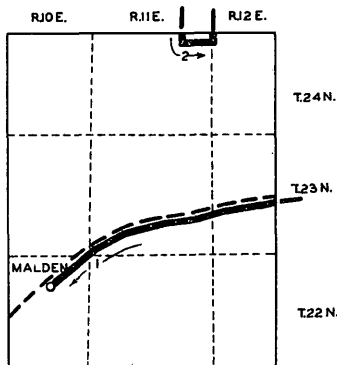
(Continued from Advance quadrangle; see line no. 3.)

Ardeola, 200 ft. N. of St. Louis Southwestern R. R. section house, 36 ft. W. of R. R. track, near NE. corner of section house lot, in concrete post; standard tablet stamped "P.T. Sta No 98 S 1926" 320.818
 Ardeola, 1.1 mi. SW. of, along St. Louis Southwestern R. R., 780 ft. S. of switch, at NE. corner of wooden trestle no. 30, in wooden wing wall; copper nail and washer 322.93
 Ardeola, 1.9 mi. SW. of, along St. Louis Southwestern R. R., at SW. corner of wooden trestle no. 29, in wooden wing wall; copper nail and washer 320.48
 Zeta, 0.5 mi. N. of, along St. Louis Southwestern R. R., 18 ft. N. and 10 ft. W. of center of track at rd. crossing, in S. end of W. head wall of concrete culvert under track; chiseled square 324.63

For an additional level line along Missouri Pacific R. R., refer to United States Coast and Geodetic Survey second-order line, Sikeston to Poplar Bluff.

MALDEN QUADRANGLE
 (Latitude $36^{\circ}30' - 36^{\circ}45'$; longitude $89^{\circ}45' - 90^{\circ}$)

Dunklin, New Madrid, and Stoddard Counties



1. FROM EAST BORDER OF QUADRANGLE WEST AND SOUTHWEST ALONG ST. LOUIS SOUTHWESTERN R. R. TO MALDEN (by Leigh D. Townsend in 1908. Preliminary adjustment)
 (Continued from New Madrid quadrangle; see line no. 1.)

Como, 47 ft. N. of St. Louis Southwestern R. R. track, somewhat W. of section house no. 8, on opposite side of track, in line with cattle guard and right-of-way fence, in corner of fence; iron post stamped "283" 282.613
 Parma, opposite Union Station, 52 ft. S. of St. Louis Southwestern R. R. track, 54 ft. from St. Louis-San Francisco R. R. track, at junction of W. fence of St. Louis-San Francisco R. R. right-of-way and S. fence of St. Louis Southwestern R. R. right-of-way, just inside fence on athletic grounds; iron post stamped "281" 281.305
 Hyman, E. of, along St. Louis Southwestern R. R., 49 ft. N. of track, in corner formed by right-of-way fence and fence running out from cattle guard; iron post stamped "281" 280.688
 Malden, 3.1 mi. NE. of, along St. Louis Southwestern R. R., 43 ft. SE. of SE. corner of R. R. bridge over drainage ditch no. 4, 80 ft. E. of ditch; iron post stamped "279" 279.413
 Malden, 2 mi. NE. of, along St. Louis Southwestern R. R., NW. of milepost 56, on top of bridge stringer on N. side at E. end of bridge no. 138-A; last bolthead 282.49
 Malden, opposite city hall, on N. side of Main Street, about 200 ft. E. of Four Corners, W. of livery barn, on S. side and in SE. corner of concrete foundation of brick office building, about 2 ft. above ground; aluminum tablet stamped "294" 294.043

2. EAST ALONG NORTH BORDER OF QUADRANGLE (by L. V. Johnson in 1931)
 (Continued from Bloomfield quadrangle; see line no. 5.)

T. 24 N., R. 11 E., cor. secs. 2, 3, 10, and 11, 7 ft. S. and 10 ft. W. of T-rd. E.; in root on NE. side of 24-in. tree; copper nail and washer 293.22
 T. 24 N., R. 11 E., cor. secs. 1, 2, 11, and 12, 55 ft. W. and 13 ft. N. of T-rd. S.; in root on SE. side of 24-in. tree; copper nail and washer 291.88
 T. 24 N., R. 11 E., E. cor. secs. 1 and 12, 5.2 mi. S. of Hunterville, 0.5 mi. N. of Marco School, 30 ft. N. and 20 ft. W. of T-rd. W.; iron post stamped "U S C 114" 291.458

Reference mark, 120 ft. N. of post, in root on NE. side of 24-in. tree; copper nail and washer

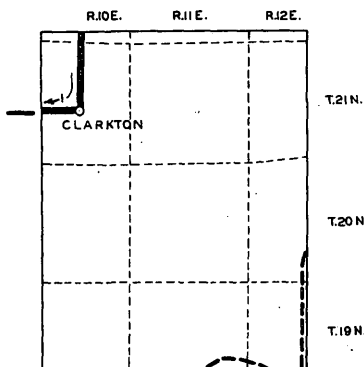
291.11

(Continued in Bloomfield quadrangle; see line no. 6.)

For an additional level line along St. Louis Southwestern R. R., refer to United States Coast and Geodetic Survey second-order line, Lilbourn to Naylor.

PASCOLA QUADRANGLE
(Latitude $36^{\circ}15'-36^{\circ}30'$; longitude $89^{\circ}45'-90^{\circ}$)

Dunklin, New Madrid, and Pemiscot Counties



1. FROM NORTH BORDER OF QUADRANGLE SOUTH ALONG ST. LOUIS-SAN FRANCISCO R. R. TO CLARKTON, THENCE WEST TO WEST BORDER (by Leigh D. Townsend in 1908. Preliminary adjustment)

Note.— This is a single run, unchecked, spur line.

	Feet
McGuire, W. of general store directly across St. Louis-San Francisco R. R., 47 ft. from track, S. of rd., 1 ft. from corner formed by fence from cattle guard and right-of-way fence; iron post stamped "290"	289.654
McGuire, first rd. crossing St. Louis-San Francisco R. R., S. of, in E. rail on S. cattle guard; spike	283.1
McGuire, 0.6 mi. S. of, along St. Louis-San Francisco R. R., at center of rd. crossing; top of E. rail	283.0
McGuire, 2.6 mi. S. of, along St. Louis-San Francisco R. R., at S. side of rd. crossing, E. rail of cattle guard; spike	280.0
Clarkton, in NE. corner of public schoolgrounds, 130 ft. NW. of NW. corner of school, at turn in fence; iron post stamped "280"	279.78
Clarkton, 0.4 mi. W. of along St. Louis-San Francisco R. R., at first rd. crossing, in tie at SE. corner of cattle guard; spike	282.5

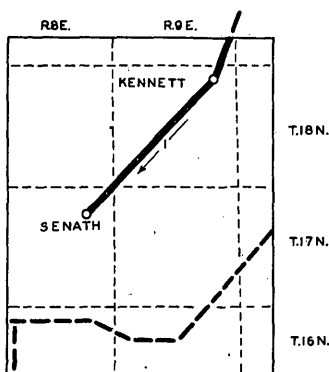
(Continued in Piggott quadrangle; see line no. 1.)

For additional level lines along St. Louis-San Francisco R. R. in southeast quarter of quadrangle, refer to United States Coast and Geodetic Survey second-order lines; Lilbourn, Mo. to Leachville, Ark., and Paragould, Ark. to Hayti, Mo.

SPIRIT LEVELING IN MISSOURI

KENNETT QUADRANGLE*
(Latitude $36^{\circ}36'15''$; longitude $90^{\circ}90'15''$)

Dunklin County



1. FROM NORTH BORDER OF QUADRANGLE SOUTHWEST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO SENATH (by Leigh D. Townsend in 1908. Preliminary adjustment)
(Continued from Piggott quadrangle; see line no. 1.)

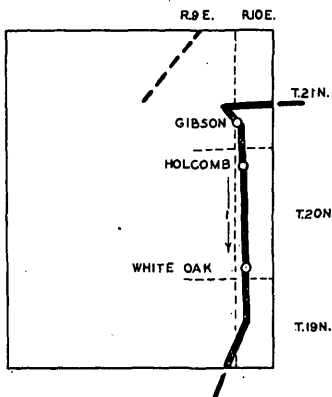
Note. —This is a single run, unchecked, spur line.

	<u>Feet</u>
Kennett, in front of St. Louis-San Francisco R. R. station; top of rail	267.0
Kennett, in W. side of brick wall and near NW. corner of Shelton School, about 4 ft. above ground; aluminum tablet stamped "270"	269.919
Kennett, 1.7 mi. SW. of, along St. Louis-San Francisco R. R., at rd. crossing; top of W. rail	265.4
Kennett, 4.6 mi. SW. of, along St. Louis-San Francisco R. R., 150 ft. NW. of milepost E-232, at NW. corner of crossroads, in field, 2 ft. from corner fence post; iron post stamped "261"	261.144
Senath, 2.5 mi. NE. of, along St. Louis-San Francisco R. R., near rd. crossing, about 300 ft. SW. of milepost E-234, on NW. side of bridge E-2341, in beam which holds the bridge number board; head of rod	258.23
Senath, 0.9 mi. E. of, at first crossroads N. of first R. R. crossing NE.; iron post stamped "258"	258.113

For an additional level line along St. Louis Southwestern R. R., refer to United States Coast and Geodetic Survey second-order line, Paragould, Ark. to Hayti, Mo. For an additional line from Arbyrd south along St. Louis-San Francisco R. R., refer to United States Coast and Geodetic Survey second-order line, Arbyrd, Mo. to Jonesboro, Ark.

PIGGOTT QUADRANGLE*
(Latitude $36^{\circ}15'36''$; longitude $90^{\circ}90'15''$)

Dunklin County



* Part of this quadrangle lies in Arkansas.

1. FROM EAST BORDER OF QUADRANGLE WEST TO GIBSON, THENCE SOUTH BY WAY OF HOLCOMB TO THE SOUTH BORDER, FOLLOWING ST. LOUIS-SAN FRANCISCO R. R. (by Leigh D. Townsend in 1908. Preliminary adjustment)

(Continued from Pascola quadrangle; see line no. 1.)

Note. - This is a single run, unchecked, spur line.

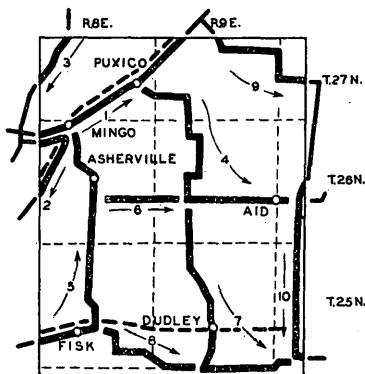
	Feet
Gibson, in foundation of Odd Fellows building, on front face at NE. corner, about 3 ft. above ground; aluminum tablet stamped "285"	284.677
Gibson, in front of St. Louis-San Francisco R. R. station; top of rail	282.5
Gibson, 1.3 mi. S. of, along St. Louis-San Francisco R. R., four poles S. of milepost no. E-214, in E. end of beam furthest N. in wooden abutment of bridge no. E-214; spike	276.84
Gibson, 2.3 mi. S. of, along St. Louis-San Francisco R. R., at first rd. crossing N. of Holcomb, one pole N. of milepost no. E-215, on outside of E. rail, at S. cattle guard; spike	278.49
Holcomb, in front of St. Louis-San Francisco R. R. station; top of rail	280.2
Holcomb, at NE. corner of schoolhouse, in angle made by entryway and N. side of building; iron post stamped "279"	279.421
Holcomb, 1.2 mi. S. of, along St. Louis-San Francisco R. R., at first rd. crossing, on outside of W. rail on N. end of fishplate; last bolt	277.54
Holcomb, 3 mi. S. of, along St. Louis-San Francisco R. R., about 300 ft. in front of public school, at W. side of entrance gate, at head of line fence from S. along rd.; iron post stamped "273"	273.300
Holcomb, 4.9 mi. S. of, along St. Louis-San Francisco R. R., 20 ft. NE. of milepost no. E-220, in root on W. side of oak tree; spike	269.77
White Oak, N. end of town, near St. Louis-San Francisco R. R. at rd. crossing, in fence corner formed by E. fence of right-of-way and fence running E. from cattle guard; iron post stamped "270"	269.779
White Oak, in front of St. Louis-San Francisco R. R. station; top of rail	270.3
Ipley, St. Louis-San Francisco R. R. station; top of rail	267.4
Ipley, about 25 ft. W. of St. Louis-San Francisco R. R. at rd. crossing, in root on S. side of elm tree; spike	265.77
Ipley, 1 mi. SE. of, in NW. corner of yard of district no. 1 school, in fence corner; iron post stamped "270"	270.250
Ipley, 1.3 mi. SW. of, along St. Louis-San Francisco R. R., at SE. corner of rd. crossing, opposite house, on outside of E. rail of N. cattle guard; last spike	271.22

(Continued in Kennett quadrangle; see line no. 1.)

For an additional level line in north central part of quadrangle, refer to United States Coast and Geodetic Survey second-order line, Lilbourn to Naylor.

PUXICO QUADRANGLE
(Latitude 36°45'-37°; longitude 90°-90°15')

Butler, Stoddard, and Wayne Counties



1. FROM WEST BORDER OF QUADRANGLE EAST AND NORTHEAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO NORTH BORDER (by E. C. Bibbee in 1914)

(Continued from Poplar Bluff quadrangle; see line no. 1.)

	Feet
Wappapello, 1.1 mi. E. of, along St. Louis-San Francisco R. R., opposite trestle no. B-180.9, at NW. corner of T-rd. N., in root of white oak tree; copper nail	342.11
Wappapello, 2.2 mi. E. of, along St. Louis-San Francisco R. R., at SE. corner of trestle no. 179.9, in E. end of inside girder; driftbolt	345.43
Mingo, 0.6 mi. W. of, along St. Louis-San Francisco R. R., in W. end of foundation to water tank; copper nail	346.57
Mingo, 100 ft. S. of St. Louis-San Francisco R. R. station; 53 ft. S. of track, 25 ft. W. of public rd.; iron post stamped "Prim Trav Sta No 14 F 1924 Mo 345"	344.622
Mingo, 1 mi. NE. of, along St. Louis-San Francisco R. R., 52 ft. S. of first rd. crossing, 2 ft. S. of R. R. property line, in root of dogwood tree; copper nail	351.20
Puxico, 0.7 mi. W. of, along St. Louis-San Francisco R. R., 60 ft. S. of first rd. crossing, on E. side of public rd., on bank of small creek, in root of 10-in. hickory tree; copper nail	358.95
Puxico, in SW. corner of park, 100 ft. S. of St. Louis-San Francisco R. R.; iron post stamped "Prim Trav Sta No 13 F 1924 Mo 370"	370.495

Puxico, 1.2 mi. NE. of, along St. Louis-San Francisco R. R., 700 ft. E. of signpost marked "Sta. 1 mile", 80 ft. S. of track, 20 ft. S. of public rd., in root of sugar maple tree; copper nail 357.75
 Puxico, 2.1 mi. NE. of, along St. Louis-San Francisco R. R., 10 ft. N. of track, 4 ft. E. of rd. crossing, on large, flat rock; highest point 346.36
 Puxico, 2.8 mi. NE. of, along St. Louis-San Francisco R. R., 7 ft. S. of track, opposite George Kitchen's residence, in ledge of rocks; chiseled square 346.23
 Puxico, 3.8 mi. NE. of, along St. Louis-San Francisco R. R., at Hickman switch, 100 ft. E. of rd. crossing, 51 ft. S. of track, in right-of-way; iron post stamped "Mo 351" 350.811

(Continued in Zalma quadrangle; see line no. 1.)

2. FROM WEST BORDER OF QUADRANGLE EAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO MINGO, THENCE SOUTHWEST ALONG SAME RAILROAD TO WEST BORDER (by M. J. Harden in 1931)
 (Continued from Poplar Bluff quadrangle; see line no. 2.)

Wappapello, 1.7 mi. E. of, along St. Louis-San Francisco R. R., 22 ft. N. and 6 ft. E. of dim rd. crossing, in S. side of telephone pole; spike 341.62
 Mingo, 1.3 mi. W. of, along St. Louis-San Francisco R. R., at NE. corner of bridge over drainage ditch, in E. end of N. guardtimber; driftbolt 345.91
 Mingo, 0.5 mi. W. of, along St. Louis-San Francisco R. R., at NE. corner of bridge over small stream, in E. end of N. guardtimber; driftbolt 346.59
 Mingo, 0.7 mi. SW. of, along St. Louis-San Francisco R. R., at SE. corner of small bridge no. 178.8, in E. end of timber abutment; bolt 347.84
 Mingo, 1.5 mi. SW. of, along St. Louis-San Francisco R. R., 35 ft. S. and 26 ft. W. of Cobb station signpost, in root of 18-in. hickory tree; copper nail and washer (recovered by U.S.C. & G.S.) 343.782
 Mingo, 2.7 mi. SW. of, along St. Louis-San Francisco R. R., at SE. corner of steel bridge over drainage ditch, in small angle iron connecting end post to end beam; top of end rivet 343.85
 Dale, 1.2 mi. NE. of St. Louis-San Francisco R. R. station, at SE. corner of R. R. bridge no. A-1815, in S. end of guardtimber; driftbolt 342.40
 Dale, 0.4 mi. NE. of St. Louis-San Francisco R. R. station, 45 ft. E. of N. end of R. R. bridge no. 182.2, 100 ft. SW. of house, in concrete post; standard tablet stamped "1 H 1931" (recovered by U.S.C. & G.S.) 339.619
 Reference mark, at SE. corner of R. R. bridge no. 182.2, in E. end of S. abutment; copper nail and washer 342.35
 Dale, 100 ft. N. of signpost, on W. side of St. Louis-San Francisco R. R. crossing sign; spike 341.75

(Continued in Poplar Bluff quadrangle; see line no. 3.)

3. IN NORTHWEST CORNER OF QUADRANGLE (by George W. Moore in 1931)
 (Continued from Zalma quadrangle; see line no. 5.)

Fry School, 1 mi. S. of, along Zalma-Wappapello road, 215 ft. S. of rd. fork SE., at E. edge of rd., in root on SW. side of 10-in. oak tree; copper nail and washer 495.33
 Fry School, 1.8 mi. S. of, along Zalma-Wappapello road, at W. end of ford across Stanley Creek, at N. edge of rd., in root on S. side of 19-in. maple tree; copper nail and washer 353.75
 Fry School, 2.8 mi. S. of, along Zalma-Wappapello road, 0.7 mi. N. of Union Hill School, 650 ft. S. of ford across Johns Branch, at E. edge of rd., in root on E. side of 12-in. oak tree; copper nail and washer 374.77
 Wappapello, 3.5 mi. N. of, on Zalma-Wappapello wagon road, in NE. corner of Union Hill schoolyard, 48 ft. W. of rd., in concrete post; standard tablet stamped "P T Sta No 64 S 1926" 486.540
 Reference mark, 70 ft. SE. of tablet, 45 ft. E. of woods rd. SE., in root on W. side of 10-in. oak tree; copper nail and washer 482.04

(Continued in Poplar Bluff quadrangle; see line no. 7.)

4. FROM PUXICO EAST AND SOUTH TO CENTER OF QUADRANGLE, THENCE EAST TO POINT NEAR EAST BORDER

Puxico, in SW. corner of park, 100 ft. S. of St. Louis-San Francisco R. R.; iron post stamped "Prim Tray Sta No 13 F 1924 Mo 370" 370.495
 Reference mark, 70 ft. SE. of tablet, at intersection of Richardson Avenue and East Railroad Street, in top NE. corner of concrete foundation of lampost; chiseled square 371.13
 T. 27 N., R. 8 E., in NW. cor. sec. 36, 490 ft. E. of crossroads, in top SW. end of S. wing wall of W. concrete abutment of small wooden culvert; chiseled square 383.48
 T. 27 N., R. 8 E., 0.2 mi. W. of E. cor. secs. 25 and 36, 30 ft. S. and 20 ft. W. of crossroads, in root on N. side of 14-in. elm tree; copper nail and washer 418.79
 T. 27 N., R. 9 E., 0.5 mi. W. of cor. secs. 29, 30, 31, and 32, 35 ft. E. and 15 ft. S. of crossroads, in root on NW. side of 24-in. oak tree; copper nail and washer 368.22
 Puxico, 2.5 mi. E. of, 57 ft. N. and 21 ft. W. of crossroads at cor. secs. 29, 30, 31, and 32, T. 27 N., R. 9 E., 14 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 41 L 1931" 372.817
 Reference mark, 415 ft. S. of crossroads, at W. edge of rd., in root on SE. side of 20-in. elm tree; copper nail and washer 354.14
 T. 27 N., R. 9 E., in SE. cor. sec. 31, in NW. angle of T-rd. N., in root on N. side of 24-in. oak tree; copper nail and washer 403.04
 T. 26 N., R. 9 E., near S. sixteenth cor. secs. 5 and 6, 45 ft. N. and 20 ft. E. of rd. corner from N. to E., in root on SW. side of 33-in. elm tree; copper nail and washer 366.79

- T. 26 N., R. 9 E., 0.3 mi. N. of quarter cor. between secs. 5 and 8, 75 ft. N. and 90 ft. E. of T-rd. S., in yard, in root on SW. side of 27-in. oak tree; copper nail and washer 347.43
- Puxico, 3 mi. E. and 2.8 mi. S. of, in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 26 N., R. 9 E., 20 ft. W. and 91 ft. S. of crossroads, 63 ft. S. of fence corner, in concrete post; standard tablet stamped "T T 42 L 1931" 353.54
- Reference mark, 65 ft. N. and 20 ft. W. of crossroads, 4 ft. W. of rail fence, in root on W. side of 24-in. oak tree; copper nail and washer 353.59
- T. 26 N., R. 9 E., N. sixteenth cor. between secs. 17 and 18, in NE. angle of crossroads, in fence line, in root on SW. side of 24-in. oak tree; copper nail and washer 363.90
- T. 26 N., R. 9 E., near cor. secs. 17, 18, 19, and 20, 25 ft. N. and 35 ft. E. of crossroads, in root on W. side of twin persimmon tree; copper nail and washer 374.16
- Aid, 4 mi. W. of, 23 ft. E. and 22 ft. S. of crossroads at cor. secs. 19, 20, 29, and 30, T. 26 N., R. 9 E., 4 ft. SE. of fence corner, in concrete post; standard tablet stamped "T T 43 L 1931" 341.193
- Reference mark, 110 ft. N. of tablet, in fence line, in root on NW. side of 10-in. blazed persimmon tree; copper nail and washer 341.11
- Aid, 3 mi. W. of, near cor. secs. 20, 21, 28, and 29, T. 26 N., R. 9 E., 25 ft. S. and 65 ft. W. of crossroads, in root on NW. side of 9-in. oak tree; copper nail and washer 342.54
- Aid, 2 mi. W. of, near cor. secs. 21, 22, 27, and 28, T. 26 N., R. 9 E., 65 ft. N. and 115 ft. W. of center of bridge over large drainage ditch, 25 ft. N. and 18 ft. W. of corner of farmyard, in root on N. side of 21-in. hickory tree; copper nail and washer 345.99
- Aid, 1 mi. W. of, 29 ft. N. and 23 ft. E. of crossroads at cor. secs. 22, 23, 26, and 27, T. 26 N., R. 9 E., 11 ft. NE. of fence corner, in concrete post; standard tablet stamped "T T 44 L 1931" 366.307
- Reference mark, 45 ft. N. and 25 ft. W. of crossroads, 30 ft. E. of SE. corner of J. D. Frank's house, in root on SW. side of 18-in. walnut tree; copper nail and washer 365.71
- Aid, 25 ft. N. and 130 ft. E. of crossroads at cor. secs. 23, 24, 25, and 26, T. 26 N., R. 9 E., at SW. corner of post office, in top at SW. corner of concrete stepping block; chiseled square 388.91
- Aid, 1 mi. E. of, in NE. cor. sec. 25, T. 26 N., R. 9 E., 125 ft. SW. of crossroads, at S. edge of rd. W., in root on NW. side of 13-in. walnut tree; copper nail and washer 402.90
- Aid, 1.6 mi. E. of, near quarter cor. between secs. 19 and 30, T. 26 N., R. 10 E., in top at W. end of W. wing wall of concrete bridge; chiseled square 379.34

5. FROM WEST BORDER OF QUADRANGLE EAST ALONG U. S. HIGHWAY 60 TO FISK, THENCE NORTH TO POINT 1.5 MILES SOUTHWEST OF MINGO
(Continued from Poplar Bluff quadrangle; see line no. 6.)

- T. 25 N., R. 7 E., in NE $\frac{1}{4}$ sec. 36, on U. S. Highway 60, 0.2 mi. W. of T-rd. S., in top at E. end of S. head wall of concrete culvert; chiseled square 322.97
- Ash Hill, 0.5 mi. W. of, along U. S. Highway 60, 35 ft. N. of highway at rd. S. to Brosley, 1 ft. S. of fence, in concrete post; standard tablet stamped "12 M 1931" 325.356
- Reference mark, in SE. corner of N. parapet wall of E. abutment to bridge no. G-280 over ditch no. 11; chiseled square 326.59
- T. 25 N., R. 8 E., near cor. secs. 29, 30, 31, and 32, on U. S. Highway 60, in N. parapet wall of E. abutment of bridge no. G-293 over drainage ditch no. 16; chiseled square 326.44
- T. 25 N., R. 8 E., near center of SE $\frac{1}{4}$ sec. 29, on U. S. Highway 60, in SW. corner of N. parapet wall of W. abutment of bridge no. G-294 over drainage ditch; chiseled square 328.79
- Fisk, at N. side of Missouri Pacific R. R. bridge over St. Francis River, in top of W. pier; U. S. G. S. Gaging Station tablet 338.960
- Fisk, at U. S. Highway 60 bridge over St. Francis River, in SW. corner of S. parapet wall of W. abutment; chiseled square (U. S. C. E. B. M.) 345.46
- Fisk, 1 mi. E. of, along U. S. Highway 60, 71 ft. E. and 66 ft. N. of highway at rd., 2 ft. S. of fence, in concrete post; standard tablet stamped "13 M 1931" cross 329.912
- Reference mark, 125 ft. SW. of tablet, in SE. angle of crossroads, in top at N. end of E. head wall of concrete culvert; chiseled square 329.48
- T. 25 N., R. 8 E., 0.2 mi. E. of cor. secs. 21, 22, 27, and 28, on State Highway 51, 50 ft. N. and 50 ft. W. of crossroads, in root on NE. side of 11-in. oak tree; copper nail and washer 331.62
- T. 25 N., R. 8 E., 0.2 mi. E. of cor. secs. 15, 16, 21, and 22, 20 ft. S. and 45 ft. E. of T-rd. S., 25 ft. E. of fence corner, in fence line, in root on W. side of 20-in. oak tree; copper nail and washer 334.38
- T. 25 N., R. 8 E., N. sixteenth cor. between secs. 15 and 16, 18 ft. N. of fence corner, 24 ft. S. of center of gate at private T-rd. W., in root on E. side of 20-in. oak tree; copper nail and washer 332.78
- T. 25 N., R. 8 E., secs. 9 and 10, 50 ft. W. and 17 ft. S. of crossroads at quarter cor. between, in concrete post; standard tablet stamped "14 M 1931" 336.394
- Reference mark, 45 ft. NE. of tablet, 13 ft. N. and 23 ft. W. of crossroads, in root on SW. side of 18-in. oak tree; copper nail and washer 335.58
- T. 25 N., R. 8 E., near quarter cor. between secs. 3 and 4, 25 ft. N. and 30 ft. W. of T-rd. W., 13 ft. N. and 15 ft. W. of corner fence post, in root on SW. side of 20-in. oak tree; copper nail and washer 345.11
- T. 26 N., R. 8 E., in SW. cor. sec. 34, 350 ft. E. of T-rd. S., 45 ft. N. and 30 ft. E. of rd. corner from E. to N., in root on NW. side of 9-in. tree; copper nail and washer 341.83
- T. 26 N., R. 8 E., in SE. cor. sec. 28, 25 ft. N. and 35 ft. W. of T-rd. W., in fence line, in root on SE. side of 24-in. oak tree; copper nail and washer 342.50
- T. 26 N., R. 8 E., in NE. cor. sec. 28, 53 ft. W. and 18 ft. S. of crossroads, 30 ft. W. and 2 ft. S. of fence corner, in concrete post; standard tablet stamped "15 M 1931" 355.664
- Reference mark, 210 ft. SE. of tablet, 160 ft. S. and 100 ft. E. of crossroads, in root on NW. side of lone 12-in. ash tree; copper nail and washer 355.76

T. 26 N., R. 8 E., in NE $\frac{1}{4}$ sec. 21, at W. edge of rd., in barnyard fence, in root on E. side of 33-in. sweet gum tree; copper nail and washer 382.01
 Asherville, 120 ft. S. and 30 ft. W. of crossroads, in root on N. side of 14-in. walnut tree; copper nail and washer 446.23
 Asherville, 0.8 mi. W. of, in SW $\frac{1}{4}$ sec. 16, T. 26 N., R. 8 E., 54 ft. N. and 23 ft. W. of crossroads, in concrete post; standard tablet stamped "16 M 1931" 356.511
 Reference mark, 90 ft. SE. of tablet, at SE. corner of crossroads, in root on NE. side of 14-in. oak tree; copper nail and washer 355.23
 T. 26 N., R. 8 E., in NW. cor. sec. 16, 0.3 mi. S. of T-rd. E., 265 ft. S. of fence E. and W., 23 ft. E. of rd., in fence line, in root on SE. side of 10-in. hickory tree; copper nail and washer 342.40

6. FROM POINT 1.5 MILES SOUTH OF ASHERVILLE EAST TO CENTER OF QUADRANGLE

T. 26 N., R. 8 E., cor. secs. 22, 23, 26, and 27, 35 ft. S. and 260 ft. W. of crossroads, in root on N. side of 16-in. sweet gum tree; copper nail and washer 346.05
 T. 26 N., R. 8 E., cor. secs. 23, 24, 25, and 26, 20 ft. N. and 30 ft. E. of crossroads, 60 ft. NE. of NE. corner of Edmundson's store, in root on SW. side of 29-in. oak tree; copper nail and washer 360.77
 T. 26 N., R. 8 E., quarter cor. between secs. 24 and 25, 22 ft. N. and 40 ft. W. of crossroads, 2 ft. inside fence, in root on SW. side of twin oak tree; copper nail and washer 374.44
 T. 26 N., R. 8 E., at E. cor. secs. 24 and 25, 22 ft. S. and 55 ft. W. of T-rd. W., 2 ft. inside fence, in root on NE. side of 8-in. ash tree; copper nail and washer 375.78
 T. 26 N., R. 9 E., quarter cor. between secs. 19 and 30, 32 ft. N. and 50 ft. W. of T-rd. S., 14 ft. N. of fence line, in root on SE. side of 24-in. oak tree; copper nail and washer 348.63

7. FROM CENTER OF QUADRANGLE SOUTH AND EAST TO POINT NEAR SOUTHEAST CORNER

T. 26 N., R. 9 E., at SE. cor. sec. 30, 30 ft. N. and 20 ft. W. of crossroads, in fence corner, in root on E. side of 15-in. oak tree; copper nail and washer 336.68
 T. 26 N., R. 9 E., near S. cor. secs. 31 and 32, 285 ft. W. of T-rd. S., 35 ft. S. and 60 ft. E. of corner of rd. from S. to E., in root on E. side of 11-in. oak tree; copper nail and washer 335.16
 Dudley, 3 mi. N. and 1.2 mi. W. of, 58 ft. N. and 18 ft. W. of crossroads at cor. secs. 5, 6, 7, and 8, T. 25 N., R. 9 E., 34 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 45 L 1931" 347.699
 Reference mark, 120 ft. N. and 36 ft. W. of tablet, in root on SW. side of 24-in. oak tree; copper nail and washer 347.79
 T. 25 N., R. 9 E., cor. secs. 7, 8, 17, and 18, 10 ft. N. and 43 ft. W. of rd. corner from S. to E., 9 ft. S. and 23 ft. W. of fence corner, in root on E. side of 24-in. oak tree; copper nail and washer 336.21
 T. 25 N., R. 9 E., in NE. cor. sec. 17, 40 ft. S. and 35 ft. W. of crossroads, in fence, in root on NE. side of 19-in. elm tree; copper nail and washer 347.46
 Dudley, 1 mi. N. of, 0.2 mi. E. of cor. secs. 16, 17, 20, and 21, T. 25 N., R. 9 E., 116 ft. W. and 21 ft. N. of triangle at rd. fork S., 35 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 46 L 1931" 346.371
 Reference mark, 0.2 mi. W. of tablet, 130 ft. E. and 20 ft. S. of T-rd. N., in root on N. side of 23-in. oak tree; copper nail and washer 346.77
 Dudley, in SW. angle of T-rd. W., in top at NW. corner of concrete porch of Dudley's store; chiseled square 356.49
 Dudley, 0.6 mi. S. of, at E. edge of rd., in root on W. side of 45-in. oak tree; copper nail and washer (U. S. C. E. B. M.) 344.86
 T. 25 N., R. 9 E., in SE $\frac{1}{4}$ sec. 33, 100 ft. N. and 18 ft. E. of rd. corner from S. to W., in fence line, in root on SW. side of 10-in. wild cherry tree; copper nail and washer 335.99
 T. 24 N., R. 9 E., in NE. cor. sec. 5, 112 ft. S. of rd. corner from W. to S., at W. edge of rd., in root on NE. side of 30-in. oak tree; copper nail and washer 337.45
 Dudley, 2.3 mi. S. and 0.3 mi. W. of, 22 ft. W. and 25 ft. S. of T-rd. N. at quarter cor. between secs. 4 and 5, T. 24 N., R. 9 E., 6 ft. S. of fence corner, in concrete post; standard tablet stamped "T T 47 L 1931" 323.616
 Reference mark, 975 ft. E. of tablet, in top of S. end of concrete pier at SE. corner of iron bridge over drainage ditch; chiseled square (U. S. C. E. B. M.) 324.67
 T. 24 N., R. 9 E., in SW $\frac{1}{4}$ sec. 3, 720 ft. E. of T-rd. S., 63 ft. N. of rd., in root on SW. side of 15-in. cypress tree; copper nail and washer 322.78
 T. 24 N., R. 9 E., in SE $\frac{1}{4}$ sec. 3, 28 ft. N. and 45 ft. W. of T-rd. N., in root on N. side of 9-in. white oak tree; copper nail and washer 326.16
 Dudley, 2.5 mi. S. and 3 mi. E. of, 19 ft. S. and 80 ft. E. of T-rd. S. at quarter cor. between secs. 1 and 2, T. 24 N., R. 9 E., 35 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 48 L 1931" 342.033
 Reference mark, 62 ft. SE. of tablet, 42 ft. S. and 135 ft. E. of T-rd. S., in root on N. side of 13-in. hickory tree; copper nail and washer (U. S. C. E. B. M.) 342.15
 T. 24 N., R. 9 and 10 E., quarter cor. between secs. 1 and 6, 65 ft. N. and 20 ft. W. of T-rd. W., in root on SE. side of 14-in. oak tree; copper nail and washer 380.36
 T. 24 N., R. 10 E., near center of NE $\frac{1}{4}$ sec. 6, 28 ft. N. and 26 ft. E. of T-rd. N., in root on S. side of 16-in. oak tree; copper nail and washer 398.43
 Dexter, 3 mi. W. and 2.7 mi. S. of, in NW $\frac{1}{4}$ sec. 5, T. 24 N., R. 10 E., 58 ft. N. and 21 ft. W. of crossroads, in concrete post; standard tablet stamped "T T 36 L 1931" 405.427
 Reference mark, 30 ft. N. and 20 ft. W. of crossroads, in N. head wall of concrete culvert; chiseled square 403.13

8. FROM POINT 1 MILE EAST OF FISK SOUTHEAST TO POINT 2.5 MILES SOUTHWEST OF DUDLEY

T. 25 N., R. 8 E., near center of NW $\frac{1}{4}$ sec. 34, 35 ft. S. and 40 ft. E. of rd. corner from S. to E., in yard, in root on NW. side of 19-in. oak tree; copper nail and washer	330.16
Lakeview School, 40 ft. SW. of SW. corner of, in NE. corner of turn in rd. from N. to E., in root on E. side of 20-in. oak tree; copper nail and washer	329.22
Tps. 24 and 25 N., R. 8 E., near quarter cor. between secs. 2 and 35, 600 ft. E. of iron bridge over drainage ditch, 25 ft. N. and 40 ft. E. from crossroads, in root on S. side of 18-in. cypress tree; copper nail and washer	324.36
Tps. 24 and 25 N., R. 8 E., near quarter cor. between secs. 1 and 36, 359 ft. E. and 12 ft. N. from center of bridge over drainage ditch, 65 ft. NW. of crossroads, on W. side of triangle at rd. forks, in concrete post; standard tablet stamped "17 M 1931"	325.298
Reference mark, 36 ft. SE. of tablet, in root on S. side of 14-in. oak tree; copper nail and washer	325.21
T. 24 N., Rs. 8 and 9 E., quarter cor. between secs. 1 and 6, 56 ft. W. of turn in rd. from N. to E., 17 ft. N. and 11 ft. W. from fence corner, in root on NE. side of 20-in. oak tree; copper nail and washer	329.60
Wooden culvert, in SE. end; copper nail and washer	320.76
Cypress School, 36 ft. SE. of SE. corner of, 41 ft. N. and 135 ft. E. of junction of T-rd. S., in root on SW. side of 24-in. oak tree; copper nail and washer	327.95

9. IN NORTHEAST CORNER OF QUADRANGLE (by E. W. Gouchenour in 1931)
(Continued from Zalma quadrangle; see line no. 8.)

T. 27 N., R. 9 E., cor. secs. 9, 10, 15, and 16, 20 ft. N. and 15 ft. W. of crossroads, on W. end of iron pipe culvert; painted square	345.65
Leora, 0.5 mi. S. and 2.5 mi. W. of, 0.2 mi. W. of Fagan School, 46 ft. N. and 16 ft. E. of T-rd. N. at quarter cor. between secs. 10 and 15, T. 27 N., R. 9 E., 26 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 27 L 1931"	373.628
Reference mark, 10 ft. N. and 6 ft. W. of T-rd. N., in W. head wall of concrete culvert; chiseled square	373.84
T. 27 N., R. 9 E., 20 ft. N. and 120 ft. E. of cor. secs. 10, 11, 14, and 15, in root on SW. side of large black oak tree; copper nail and washer	368.37
T. 27 N., R. 9 E., near quarter cor. between secs. 11 and 14, 6 ft. S. and 15 ft. E. of crossroads, on point of rock on S. end of culvert; painted square	364.98
T. 27 N., R. 9 E., at cor. secs. 11, 12, 13, and 14, 700 ft. W. of crossroads, 20 ft. S. of rd., in root on W. side of white oak tree; copper nail and washer	434.18
Leora, 0.5 mi. S. of, 28 ft. W. and 5 ft. N. of T-rd. E. at W. cor. secs. 7 and 18, T. 27 N., R. 10 E., 108 ft. N. and 24 ft. W. of T-rd. W. at E. cor. secs. 12 and 13, T. 27 N., R. 9 E., in concrete post; standard tablet stamped "T T 26 L 1931"	373.169
Reference mark no. 1, in root on W. side of 24-in. black oak tree; copper nail and washer	368.16
Reference mark no. 2, 200 ft. S. of T-rd. W., in root on W. side of white oak tree; copper nail and washer	370.81
T. 27 N., R. 10 E., near NW. cor. sec. 19, 27 ft. S. and 6 ft. E. of T-rd. E., in E. head wall of concrete culvert; chiseled square	372.93
T. 27 N., R. 10 E., near NW. cor. sec. 30, 12 ft. N. and 9 ft. E. of T-rd. E., in root on E. side of 30-in. elm tree; copper nail and washer	373.02

(Continued in Bloomfield quadrangle; see line no. 1.)

10. SOUTH ALONG SOUTH HALF OF EAST BORDER OF QUADRANGLE
(Continued from Bloomfield quadrangle; see line no. 1.)

Alhambra Church, about 300 ft. SE. of, 44 ft. E. and 17 ft. S. of crossroads at cor. secs. 5, 6, 7, and 8, T. 26 N., R. 10 E., 69 ft. E. of E. end of house, in concrete post; standard tablet stamped "T T 24 L 1931"	424.882
Reference mark, 55 ft. S. and 15 ft. E. of crossroads, in root on N. side of wild cherry tree	422.96
T. 26 N., R. 10 E., 900 ft. S. of cor. secs. 7, 8, 17, and 18, on NW. abutment of steel girder bridge across drainage ditch; painted square	373.44
T. 26 N., R. 10 E., near quarter cor. between secs. 17 and 18, 18 ft. S. and 20 ft. W. of crossroads, in root on E. side of 15-in. elm tree; copper nail and washer	370.73
T. 26 N., R. 10 E., near cor. secs. 17, 18, 19, and 20, 18 ft. S. and 115 ft. W. of crossroads, in root on NE. side of persimmon tree; copper nail and washer	383.01
Bloomfield, 4 mi. W. and 0.5 mi. S. of, about 0.2 mi. N. of cor. secs. 19, 20, 29, and 30, T. 26 N., R. 10 E., 99 ft. S. and 22 ft. E. of T-rd. E., 22 ft. N. and 3 ft. E. of lone hickory tree, in concrete post; standard tablet stamped "T T 23 L 1931"	398.389
Reference mark, 20 ft. N. and 10 ft. E. of T-rd. E., on E. end of iron pipe culvert; painted square	394.26
T. 26 N., R. 10 E., 0.4 mi. N. of cor. secs. 29, 30, 31, and 32, 600 ft. S. and 30 ft. E. of T-rd. W., in root on NW. side of large oak tree; copper nail and washer	387.04
T. 26 N., R. 10 E., quarter cor. between secs. 31 and 32, 300 ft. S. and 20 ft. E. of T-rd. E., in root of small oak tree; copper nail and washer	451.42
T. 25 N., R. 10 E., N. cor. secs. 5 and 6, at T-rd. S., in root on E. side of hickory tree; copper nail and washer	475.03
T. 25 N., R. 10 E., 700 ft. S. of quarter cor. between secs. 5 and 6, in NW. wing wall of concrete abutment of steel girder bridge; chiseled square	390.37
Dexter, 2.5 mi. W. and 2 mi. N. of, 0.3 mi. S. of cor. secs. 5, 6, 7, and 8, T. 25 N., R. 10 E., 35 ft. E. and 5 ft. N. of T-rd. W. through gate, in concrete post; standard tablet stamped "T T 34 L 1931"	436.642
Reference mark, 15 ft. S. of tablet, in root on SE. side of 24-in. oak tree	435.71
T. 25 N., R. 10 E., S. sixteenth cor. between secs. 7 and 8, 40 ft. S. and 30 ft. W. of crossroads, in root on S. side of 10-in. persimmon tree; copper nail and washer	466.35

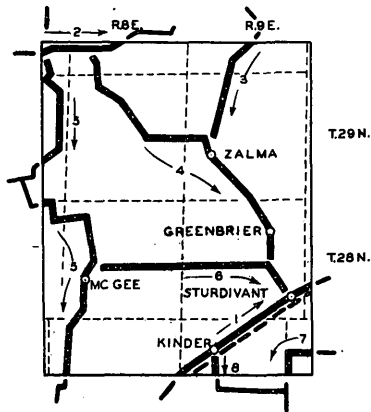
- T. 25 N., R. 10 E., 0.2 mi. N. of cor. secs. 17, 18, 19, and 20, 22 ft. N. and 33 ft. W. of T-rd. W., in root on E. side of persimmon tree; copper nail and washer 357.77
- T. 25 N., R. 10 E., at cor. secs. 17, 18, 19, and 20, 30 ft. N. and 40 ft. E. of U. S. Highway 60 at T-rd. N., in W. end of N. head wall of concrete culvert; chiseled square 351.93
- T. 25 N., R. 10 E., in SW. cor. sec. 20, 330 ft. N. of Missouri Pacific R. R. at rd. crossing, in root on SW. side of large oak tree; copper nail and washer 364.98
- Dexter, 2.5 mi. W. of, along Missouri Pacific R. R., in SW $\frac{1}{4}$ sec. 20, T. 25 N., R. 10 E., 49 ft. S. and 29 ft. W. of R. R. at rd. crossing, 14 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 35 L 1931" 367.598
- T. 25 N., R. 10 E., 0.2 mi. E. of cor. secs. 19, 20, 29, and 30, 20 ft. N. and 35 ft. W. of crossroads, in root on W. side of sycamore tree 380.01
- T. 25 N., R. 10 E., about 0.3 mi. NE. of cor. secs. 29, 30, 31, and 32, 25 ft. N. and 30 ft. W. of T-rd. W., in root of white oak tree; copper nail and washer 495.71
- T. 25 N., R. 10 E., 0.2 mi. E. of quarter cor. between secs. 31 and 32, 40 ft. N. and 15 ft. W. of T-rd. W., in black oak stump; copper nail and washer 406.57
- T. 25 N., R. 10 E., in SW $\frac{1}{4}$ sec. 32, 210 ft. S. and 10 ft. W. of rd. fork E., in root on W. side of black oak tree; copper nail and washer 413.81

(Continued in Bloomfield quadrangle; see line no. 5.)

For additional level lines along St. Louis-San Francisco R. R. in northwest quarter of quadrangle, refer to United States Coast and Geodetic Survey first-order line, Cape Girardeau, Mo. to Hoxie, Ark. and second-order line, Mingo to Hunter. For an additional line along Missouri Pacific R. R. in south part of quadrangle, refer to United States Coast and Geodetic Survey second-order line, Sikeston to Poplar Bluff.

ZALMA QUADRANGLE
(Latitude 37°-37°15'; longitude 90°-90°15')

Bollinger, Stoddard, and Wayne Counties



1. FROM SOUTH BORDER OF QUADRANGLE NORTHEAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO EAST BORDER (by E. C. Bibbee in 1914)
(Continued from Fuxico quadrangle; see line no. 1.)

	Feet
Idlewild, in front of St. Louis-San Francisco R. R. station; top of rail	346.7
Idlewild, 60 ft. S. of St. Louis-San Francisco R. R., 20 ft. W. of NW. corner of George Elder's store, in root of hickory tree; copper nail	350.69
Idlewild, 0.7 mi. NE. of, along St. Louis-San Francisco R. R., in N. end of first tie on W. end of trestle no. A-169.7; drift spike	346.95
Kinder, in NW. corner of schoolyard, 50 ft. S. of St. Louis-San Francisco R. R., 250 ft. S. of store, 150 ft. E. of post office; iron post stamped "Prim Trav Sta No 12 F 1924 Mo 342" (recovered by U.S.C. & G.S.)	342.6d ₄
Kinder, 0.9 mi. NE. of, along St. Louis-San Francisco R. R., 57 ft. S. of track, 7 ft. S. of R. R. right-of-way, 50 ft. E. of rd., in root of 24-in. ash tree; copper nail	342.96
Eaglette, 0.8 mi. SW. of, along St. Louis-San Francisco R. R., near rd. crossing, 52 ft. S. of track, 2 ft. S. of right-of-way line, in rd., in root of black oak tree; copper nail	342.50
Eaglette, near St. Louis-San Francisco R. R. station, 50 ft. S. of track, 2 ft. S. of right-of-way, 15 ft. W. of public rd.; iron post stamped "Prim Trav Sta No 11 F 1924 Mo 346" (recovered by U.S.C. & G.S.)	345.800
Reference mark, 63 ft. N. and 33 ft. E. of rd. crossing, in root on NW. side of sycamore tree; copper nail and washer	345.82
Sturdivant, 0.9 mi. SW. of, along St. Louis-San Francisco R. R., 50 ft. S. of track, opposite signpost marked "Station 1 mile", in root of black oak tree; copper nail	345.36
Sturdivant, 500 ft. W. of St. Louis-San Francisco R. R. station, 50 ft. N. of track, at SW. corner of J. M. Phelps' yard; iron post stamped "Prim Trav Sta No 10 F 1924 349" (recovered by U.S.C. & G.S.)	349.314
Sturdivant, in front of St. Louis-San Francisco R. R. station; top of rail	350.8

Sturdivant, 1 mi. NE. of, along St. Louis-San Francisco R. R., in Homer McClennen's
coveyard, 55 ft. N. of track, 5 ft. N. of right-of-way, in root of black oak
tree; copper nail

351.47

(Continued in Advance quadrangle; see line no. 1.)

2. ACROSS NORTHWEST CORNER OF QUADRANGLE (by W. R. Broadus in 1926)
(Continued from Greenville quadrangle; see line no. 1.)

T. 30 N., R. 7 E., in NE $\frac{1}{4}$ sec. 35, about 6 mi. E. of Clubb, 600 ft. E. of J. P. Ward's
house, 300 ft. W. of State Highway 34 at junction of rd., in E. end of N. wing
wall of concrete culvert; standard tablet stamped "P T Sta No 69 S 1926" 505.164
Reference mark, 610 ft. N. 70° E. of tablet, 50 ft. S. of highway, in root on W.
side of 7-in. maple tree; copper nail and washer 514.55
Clubb, 7.5 mi. E. of, along State Highway 34, on ridge, 0.5 mi. E. of point where high-
way crosses summit, 35 ft. S. of highway, in root on N. side of 12-in. hickory
tree; copper nail and washer 597.09
Castor River, 0.9 mi. W. of, along State Highway 34, 150 ft. W. of Bollinger-Wayne
county line, 30 ft. N. of highway, in root on S. side of 36-in. maple tree; 439.82
copper nail and washer
Castor River, at State Highway 34, under bridge; surface of water November 27,
1926 at 11 a. m. 419.7
Sitzke Store, 220 ft. S. of, 500 ft. E. of E. end of State Highway 34 bridge over Castor
River, at junction of highway and old Zalma-Fredericktown road, in concrete post;
standard tablet stamped "P T Sta No 68 S 1926" 438.914
Reference mark, 22 ft. W. of tablet, in root on NE. side of 20-in. hickory tree;
copper nail and washer 438.43
Grassy, 4 mi. W. of, along State Highway 34, 1 mi. E. of Castor River, 30 ft. N. of
highway, at top of hill, in root on S. side of 18-in. hickory tree; copper
nail and washer 611.82
Grassy, 2.6 mi. W. of, along State Highway 34, 30 ft. S. of highway, 100 ft. E. of
hilltop, in root on N. side of 12-in. red oak tree; copper nail and washer 721.95

(Continued in Marquand quadrangle; see line no. 4.)

3. FROM NORTH BORDER OF QUADRANGLE SOUTHWEST TO POINT 1.8 MILES NORTHWEST OF ZALMA
(by George W. Moore in 1931)
(Continued from Marquand quadrangle; see line no. 6.)

T. 30 N., R. 9 E., in NW $\frac{1}{4}$ sec. 27, 210 ft. S. of rd. fork W., 200 ft. SE. of rd. at
crossing of Cane Creek, on E. side of rd., 2 ft. NE. of fence corner, in concrete
post; standard tablet stamped "T T 50 E 1931" 485.374
Reference mark, 154 ft. SW. of tablet, 50 ft. NE. of ford across Cane Creek, on NW.
edge of rd., in root on S. side of 25-in. elm tree; copper nail and washer 484.49
T. 30 N., R. 9 E., in S $\frac{1}{2}$ sec. 28, 95 ft. W. of dim rd. fork S., in saddle, 25 ft.
N. of main rd., in root on S. side of 19-in. oak tree; copper nail and washer 625.67
T. 30 N., R. 9 E., in W $\frac{1}{2}$ sec. 33, 80 ft. N. of T-rd. W., 140 ft. N. of T-rd. E., in
top of S. end of W. wing wall of S. abutment of concrete culvert; chiseled
square 611.05
Hahn, 0.6 mi. N. of, along rd. to Lutesville, 25 ft. E. of rd., in triangle of dim rd.
fork E., 25 ft. E. and 20 ft. N. of fence corner, in root on SW. side of 10-in.
oak tree; copper nail and washer 695.47
Hahn, 0.3 mi. N. of, in NE $\frac{1}{4}$ sec. 5, T. 29 N., R. 9 E., 21 ft. N. and 18 ft. W. of T-rd.
E., 33 ft. N. of old rd. W., 2 ft. E. of fence, in concrete post; standard
tablet stamped "T T 51 E 1931" 707.358
T. 29 N., R. 9 E., in NE $\frac{1}{4}$ sec. 8, 0.2 mi. S. of Hahn, in top at center of E. wing
wall of S. concrete abutment of small wooden bridge; chiseled square 598.28
T. 29 N., R. 9 E., near center sec. 8, 620 ft. E. of Baker School, in top at N.
end of E. wing wall of N. concrete abutment of wooden bridge; chiseled square 548.78
Zalma, 3.1 mi. N. of, near center of N $\frac{1}{2}$ sec. 17, T. 29 N., R. 9 E., 48 ft. S. and 30
ft. E. of T-rd. E., 1 ft. W. of fence, in concrete post; standard tablet stamped
"T T 52 E 1931" 558.094
Reference mark, 150 ft. S. of tablet, 5 ft. E. of fence, in root on NE. side of
21-in. oak tree; copper nail and washer 553.14
T. 29 N., R. 9 E., in SW $\frac{1}{4}$ sec. 17, 65 ft. NE. of private rd. fork NE., 40 ft. S.
of large gate, in root on W. side of 16-in. oak tree; copper nail and washer 518.95

4. FROM NORTH BORDER OF QUADRANGLE SOUTHEAST BY WAY OF ZALMA TO POINT 3 MILES SOUTH
OF GREENERIER

Buchanan, 1.8 mi. N. of post office, along old Zalma-Fredericktown road, 1 mi. S. of
State Highway 34, 150 ft. N. of curve in rd. from SE. to S., 25 ft. E. of small
drain crossing, in root on SW. side of 20-in. leaning oak tree; copper nail 438.33
and washer
Buchanan, 0.8 mi. N. of post office, along old Zalma-Fredericktown road, 35 ft. N. of
T-rd. N., in triangle of rd. forks, in root on N. side of 14-in. oak tree; 455.85
copper nail and washer
Buchanan, near center sec. 5, T. 29 N., R. 8 E., 15 ft. SE. of post office, 20 ft.
W. of rd., in concrete post; standard tablet stamped "P T Sta No 67 S 1926" 440.382
Reference mark, 60 ft. SE. of tablet, at E. edge of rd., in root on W. side of
16-in. oak tree; copper nail and washer 439.87
Buchanan, 1.1 mi. SE. of post office, along old Zalma-Fredericktown road, 65 ft. S.
of rd. fork E., in root on E. side of 16-in. oak tree; copper nail and washer 578.34
Buchanan, 1.3 mi. SE. of post office, along old Zalma-Fredericktown road, 100 ft. N.
of triangle of rd. forks, 30 ft. NW. of rd., in root on NE. side of 19-in. oak
tree; copper nail and washer 637.59
Buchanan, 2.2 mi. SE. of post office, along old Zalma-Fredericktown road, at NE. edge
of rd., at N. end of park, in root on S. side of 10-in. oak tree; copper nail
and washer 614.74

Zalma, 7.5 mi. NW. of, at NE. edge of rd., in root on SW. side of 9-in. oak tree; copper nail and washer	595.58
Zalma, 7 mi. NW. of, along old Zalma-Fredericktown road, in sec. 15, T. 29 N., R. 8 E., 1,500 ft. NW. of Wm. Wither's house, at W. end of old field, 36 ft. N. of rd. forks, in concrete post; standard tablet stamped "P T Sta No 66 S 1926"	422.338
Reference mark, 52 ft. SW. of tablet, in root on SE. side of 19-in. oak tree; copper nail and washer	420.52
Zalma, 6.2 mi. NW. of, along old Zalma-Fredericktown road, 10 ft. N. and 10 ft. E. of T-rd. W., in root on S. side of 9-in. oak tree, copper nail and washer	390.61
Zalma, 5.3 mi. NW. of, along old Zalma-Fredericktown road, 75 ft. E. and 22 ft. N. of rd. fork NE., in root on SE. side of 16-in. oak tree; copper nail and washer	416.72
Zalma, 4.6 mi. NW. of, along old Zalma-Fredericktown road, 160 ft. NE. of small wooden bridge over creek, at NW. edge of rd., in root on SW. side of 23-in. oak tree; copper nail and washer	377.81
Zalma, 3.5 mi. NW. of, in NE. cor. sec. 24, T. 29 N., R. 8 E., on farm of C. R. Willis, 30 ft. S. and 20 ft. E. of junction of private rd., 10 ft. N. and 10 ft. E. of large gate, in concrete post; standard tablet stamped "P T Sta No 65 S 1926"	380.157
Reference mark, 66 ft. NW. of tablet, 30 ft. N. and 35 ft. W. of rd. forks, in root on SE. side of 10-in. sycamore tree; copper nail and washer	385.15
Zalma, 2.8 mi. NW. of, along old Zalma-Fredericktown road, 110 ft. E. of wooden gate to field, at S. side of rd., in fence line, in root on NE. side of 18-in. white oak tree; copper nail and washer	381.54
Zalma, 1.8 mi. NW. of, along old Zalma-Fredericktown road, 70 ft. E. of rd. fork NW., in top near SW. end of N. wing wall of E. concrete abutment of small wooden bridge; chiseled square	368.95
Zalma, 1.3 mi. NW. of, along old Zalma-Fredericktown road, 30 ft. S. and 90 ft. E. of rd. forks, in root on NW. side of 11-in. walnut tree; copper nail and washer	425.50
Zalma, 0.4 mi. N. of, along State Highway 51, 20 ft. SW. of junction of old Zalma-Fredericktown road, 5 ft. SW. of NW. corner of bridge no. J-104, in top of NW. guard wall; chiseled square	387.24
Zalma, 720 ft. E. of post office, 82 ft. S. of SE. corner of St. Louis-San Francisco R. R. station, 21 ft. S. and 18 ft. W. of public rd. crossing, in sandstone boulder; standard tablet stamped "P T Sta No 58 S 1926"	374.134
Reference mark, 180 ft. NW. of tablet, 70 ft. W. of NW. corner of St. Louis-San Francisco R.R. sta., in top of N. end of E. head wall of concrete culvert under State Highway 51; chiseled square	374.33
Zalma, 1 mi. SE. of, along St. Louis-San Francisco R.R., on N. guardtimber of bridge no. C-168.3, top of second driftbolt from W. end of bridge	372.94
Zalma, 1.6 mi. SE. of, along St. Louis-San Francisco R. R., at S. edge of public rd. crossing, in top N. end of W. guardtimber of bridge no. C-167.7 over Castor River; top of N. driftbolt	375.60
Zalma, 2.5 mi. SE. of, along St. Louis-San Francisco R. R., 118 ft. N. of station sign on NE. side of tracks, 55 ft. NE. of tracks, in root on S. side of 19-in. oak tree; copper nail and washer	365.86
Greenbrier, 0.6 mi. NW. of, along St. Louis-San Francisco R. R., at SE. corner of bridge no. C-165.9, 3 ft. S. of S. rail, in top S. end of W. cross bracing; copper nail and washer	367.72
Greenbrier, in sec. 11, T. 28 N., R. 9 E., 51 ft. N. and 18 ft. W. of main public crossing of Zalma Branch of St. Louis-San Francisco R. R., in SW. corner of concrete well-platform; standard tablet stamped "P T Sta No 57 S 1926"	365.988
Reference mark, 245 ft. S. and 30 ft. W. of St. Louis-San Francisco R. R. at main public rd. crossing, in root on SE. side of 19-in. hickory tree; copper nail and washer	364.42
Greenbrier, 0.8 mi. S. of, along rd., 40 ft. N. and 75 ft. W. of T-rd. N., in root on NW. side of 22-in. oak tree; copper nail and washer	360.72
Greenbrier, 1.6 mi. S. of, along rd., 190 ft. N. of gates at private crossroads, 20 ft. W. of rd., in fence line, in root on E. side of 14-in. hickory tree; copper nail and washer	358.89
Greenbrier, 2.7 mi. S. of, 0.4 mi. N. of crossroads, in top center of E. cross-beam of small wooden culvert; copper nail and washer	355.05

5. SOUTH ALONG WEST BORDER OF QUADRANGLE

Clubb, 7.1 mi. E. of, along State Highway 34, 2.1 mi. W. of Castor River, 55 ft. S. of T-rd. SE., in root on N. side of 7-in. oak tree; copper nail and washer	644.58
Lowndes, 8.5 mi. NE. of, along rd., 0.6 mi. S. of State Highway 34, 16 ft. W. of rd. fork SE., in root on SE. side of 10-in. pine tree; copper nail and washer	684.36
Lowndes, 7.5 mi. NE. of, along rd., 320 ft. NE. of rd. fork N., in saddle on top of ridge, at NW. edge of rd., in root on S. side of 12-in. oak tree; copper nail and washer	567.08
Lowndes, 7 mi. NE. of, at NE. edge of rd., 12 ft. N. and 4 ft. W. of SW. corner of F. L. Moyer's yard, in root on W. side of 12-in. walnut tree; copper nail and washer	429.53
T. 29 N., R. 7 E., near center sec. 1, 130 ft. S. and 35 ft. W. of T-rd. E., SE. of rd. forks, 25 ft. E. and 2 ft. N. of oak tree in fence corner, in concrete post; standard tablet stamped "18 M 1931"	416.068
Reference mark, 66 ft. NW. of tablet, at W. side of rd., in root on NW. side of 9-in. oak tree; copper nail and washer	414.17
Lowndes, 5.4 mi. NE. of, 350 ft. N. of fence E., at W. edge of rd., in front of abandoned sawmill, in root on SE. side of 32-in. oak tree; copper nail and washer	410.24
Lowndes, 4.8 mi. NE. of, on line between secs. 12 and 13, T. 29 N., R. 7 E., 60 ft. SW. of ford across small creek, on W. side of rd., in fence corner, in root on SE. side of 17-in. oak tree; copper nail and washer	409.13
Lowndes, 4.2 mi. NE. of, 25 ft. N. and 25 ft. E. of rd. fork NE. at top of hill, in root on SW. side of 11-in. oak tree; copper nail and washer	473.56
Lowndes, 3.5 mi. NE. of, 0.7 mi. NE. of ford across Bear Creek, 90 ft. W. and 18 ft. S. of T-rd. N., 2 ft. N. of fence, in concrete post; standard tablet stamped "19 M 1931"	402.746

Reference mark, 162 ft. NE. of tablet, 48 ft. N. of T-rd. N., at W. edge of rd., in fence line, in root on E. side of 24-in. white oak tree; copper nail and washer 403.72

Lowndes, 2.8 mi. NE. of, on S. side of rd., 50 ft. E. of Bear Creek, in root on N. side of 22-in. sycamore tree; copper nail and washer 400.30

Lowndes, 2.8 mi. NE. of, at W. end of ford across Bear Creek, on S. side of rd., in root on N. side of 30-in. oak tree; copper nail and washer 399.07

Lowndes, 1.9 mi. NE. of, 80 ft. W. of rd. fork SE., on SE. bank of creek, in root on E. side of 14-in. oak tree; copper nail and washer 416.68

Lowndes, 1.1 mi. NE. of, 110 ft. NW. of rd. fork NE., 25 ft. W. of fence, in root on W. side of 42-in. oak tree; copper nail and washer 423.12

(For balance in Greenville quadrangle, see line no. 3.)

Lowndes, 3.1 mi. SE. of, 35 ft. S. and 40 ft. W. of T-rd. S., in root on S. side of 6-in. oak tree; copper nail and washer 637.21

T. 28 N., R. 7 E., 0.2 mi. E. of cor. secs. 1, 2, 11, and 12, 0.2 mi. S. of Albert Stuart's residence, 130 ft. N. of T-rd. N., inside of fence, in concrete post; standard tablet stamped "P T Sta No 90 S 1926" 649.033

Reference mark, 132 ft. S. of tablet, at S. edge of rd., in root on N. side of 14-in. oak tree; copper nail and washer 639.81

Lowndes, 4.7 mi. SE. of, at dim rd. forks in woods, at E. edge of rd., in root on SW. side of 26-in. oak tree; copper nail and washer 649.90

Lowndes, 5.7 mi. SE. of, 56 ft. SE. of ford across small creek, on NE. side of rd., in root on W. side of 7-in. oak tree; copper nail and washer 495.07

Flatwood School, 1.4 mi. SW. of, 120 ft. NW. of crossroads in woods, in root on SE. side of 22-in. oak tree; copper nail and washer 647.68

Flatwood School, 0.6 mi. SW. of, 70 ft. N. of woods rd. W. at top of hill, at W. edge of rd., in root on NE. side of twin oak tree; copper nail and washer 580.41

Flatwood School, 50 ft. S. and 50 ft. W. of cor. secs. 4, 5, 8, and 9, T. 28 N., R. 8 E., 18 ft. E. of NE. corner of school, in SE. corner of concrete cistern curbing; standard tablet stamped "P T Sta No 60 S 1926" 585.390

Reference mark, 170 ft. SE. of tablet, in root on W. side of 12-in. oak tree; copper nail and washer 589.17

Flatwood School, 0.5 mi. S. of, 35 ft. S. of T-rd. S., 6 ft. W. of NW. corner of farmyard, in root on NW. side of 15-in. oak tree; copper nail and washer 548.58

Flatwood School, 1.5 mi. S. of, 55 ft. E. of rd. fork NE., in root on W. side of 6-in. oak tree; copper nail and washer 570.91

Mc Gee, 0.8 mi. N. of, 20 ft. E. of rd. fork NE., in root on NW. side of 12-in. oak tree; copper nail and washer 431.65

Mc Gee, 180 ft. E. of post office, 0.2 mi. S. of center of sec. 20, T. 28 N., R. 8 E., 10 ft. N. and 15 ft. E. of T-rd. N., in fence corner, in concrete post; standard tablet stamped "P T Sta No 61 S 1926" 395.229

Reference mark, 0.2 mi. N. of tablet, 230 ft. S. of T-rd. W., 15 ft. E. of rd., in root on W. side of 10-in. oak tree; copper nail and washer 391.64

Mc Gee, 0.5 mi. S. of, at E. edge of rd. at top of hill, in root on NW. side of 11-in. oak tree; copper nail and washer 576.26

Mc Gee, 1.1 mi. S. of, at NE. edge of rd., in root on SW. side of 22-in. oak tree; copper nail and washer 562.19

Mc Gee, 2.1 mi. S. of, 660 ft. N. of T-rd. N., 35 ft. S. and 20 ft. W. of private rd. W., in root on E. side of 11-in. oak tree; copper nail and washer 455.66

Mc Gee, 2.5 mi. S. of, on Zalma-Wappapello wagon road; near cor. secs. 4, 5, 31, and 32, Tps. 27 and 28 N., R. 8 E., 0.2 mi. N. of Bright Prospect Church, 280 ft. SE. of house of Byron Decils, in fence corner, in concrete post; standard tablet stamped "P T Sta No 62 S 1926" 405.289

Reference mark, 50 ft. NW. of NW. corner of Bright Prospect Church, in root on SE. side of 24-in. sycamore tree; copper nail and washer 374.60

Mc Gee, 4.4 mi. S. of, 50 ft. SW. of T-rd. SE., 110 ft. NE. of E-W. rail fence at SE. edge of rd., in root on W. side of 17-in. oak tree; copper nail and washer 472.88

Mc Gee, 4.9 mi. S. of, at W. edge of rd., in front of Oscar May's house, in root on NW. side of 12-in. oak tree; copper nail and washer 542.87

Mc Gee, 5.9 mi. S. of, 80 ft. N. of crossroads, in NW. corner of triangle of rd. forks, in root on W. side of 12-in. oak tree; copper nail and washer 507.42

Fry School, 300 ft. NE. of, 5 mi. N. of Wappapello along Zalma-Poplar Bluff wagon road, 250 ft. SW. of house of Byron Crites, at NE. corner of school grounds, 5 ft. N. of wire fence, in concrete post; standard tablet stamped "P T Sta No 63 S 1926" 570.713

Reference mark, 245 ft. W. of tablet, 145 ft. N. of NE. corner of Fry School, 30 ft. N. of fence, in root on N. side of 7-in. oak tree; copper nail and washer 567.65

(Continued in Puxico quadrangle; see line no. 3.)

6. FROM Mc GEE EAST AND SOUTH TO STURDIVANT (by L. V. Johnson in 1931)

Mc Gee, 0.6 mi. NE. of, along rd. to Arab, 800 ft. E. of church, at rd. corner N. to W., 7 ft. N. of E. gatepost at jog in fence, in root on N. side of 16-in. oak tree; copper nail and washer 391.90

Mc Gee, 1.6 mi. NE. of, along rd. to Arab, 12 ft. S. of rd., 8 ft. N. of pasture gate, in root on N. side of 18-in. oak tree; copper nail and washer 376.70

Mc Gee, 2.1 mi. NE. of, along rd. to Arab, 600 ft. W. of house on N. side and barn on S. side of rd., 50 ft. NE. of ford across creek, 60 ft. NW. of dim rd. fork NW. along creek, in root on SW. side of 12-in. oak tree; copper nail and washer 370.62

T. 28 N., R. 8 E., in N $\frac{1}{2}$ sec. 22, 25 ft. S. and 22 ft. E. of T-rd. S., 5 ft. S. and 2 ft. E. of fence corner, in concrete post; standard tablet stamped "T 45 E 1931" 434.603

Reference mark, 20 ft. SE. of tablet, in root on NE. side of 12-in. oak tree; copper nail and washer 433.78

Mc Gee, 3.6 mi. NE. of, along rd. to Arab, between 2 hills, 40 ft. S. and 10 ft. E. of crossroads, in root on NW. side of 12-in. oak tree; copper nail and washer 447.76

SPIRIT LEVELING IN MISSOURI

Arab, near quarter cor. between secs. 24 and 25, T. 28 N., R. 8 E., 390 ft. E. of rd., 50 ft. S. and 25 ft. W. of corner of fences N., S., and E., in front of store, in concrete post; standard tablet stamped "T T 46 E 1931" 406.050

T. 28 N., R. 9 E., 0.2 mi. W. of quarter cor. between secs. 19 and 30, at NE. angle in drainage ditch, 66 ft. N. and 30 ft. E. of front gate to farmhouse, 45 ft. N. of rd., in root on E. side of 18-in. gum tree; copper nail and washer 348.61

T. 28 N., R. 9 E., near cor. secs. 19, 20, 29, and 30, 80 ft. E. and 22 ft. N. of T-rd. S., in root on SE. side of 12-in. oak tree; copper nail and washer 348.02

T. 28 N., R. 9 E., secs. 20, 21, 28, and 29, 18 ft. N. and 63 ft. E. of T-rd. N. at cor. of, 46 ft. E. and 1 ft. S. of fence corner, in concrete post; standard tablet stamped "T T 47 E 1931" 350.504

Reference mark, 60 ft. E. and 40 ft. S. of T-rd. N., in root on NE. side of 12-in. elm tree, copper nail and washer 350.78

T. 28 N., R. 9 E., 800 ft. E. of cor. secs. 21, 22, 27, and 28, 75 ft. S. of private rd. S., in rd. right-of-way, in root on N. side of 24-in. gum tree; copper nail and washer 352.65

T. 28 N., R. 9 E., secs. 22, 23, 26, and 27, 18 ft. S. and 12 ft. E. of crossroads at cor. of, 2 ft. S. and 2 ft. E. of fence corner; in concrete post; standard tablet stamped "T T 48 E 1931" 353.963

Reference mark, 50 ft. W. and 12 ft. S. of crossroads, in 4-in. tree; copper nail and washer 354.00

Sturdivant, 1.5 mi. N. of, at cor. secs. 23, 24, 25, and 26, T. 28 N., R. 9 E., at T-rd. S.; top of large iron peg 352.60

Sturdivant, 0.2 mi. N. of, at SE. corner of steel bridge over drainage ditch, in wooden support for wooden wing wall; copper nail and washer 348.30

7. IN SOUTHEAST CORNER OF QUADRANGLE
(Continued from Advance quadrangle; see line no. 6.)

T. 27 N., Rs. 9 and 10 E., near cor. secs. 1, 6, 7, and 12, 80 ft. S. and 27 ft. W. of center of triangle formed by rd. forks, 20 ft. E. of SE. corner of old barn, in root on E. side of 15-in. hickory tree; copper nail and washer 346.46

Leora, near quarter cor. between secs. 7 and 12, T. 27 N., Rs. 9 and 10 E., 22 ft. S. and 25 ft. W. of crossroads, at Standard Oil Company service station, in NE. corner of concrete base of N. pump; chiseled square 377.89

8. FROM KINDER SOUTH TO SOUTH BORDER OF QUADRANGLE (by E. W. Gouchenour in 1931)

Kinder, about 1 mi. NE. of, along St. Louis-San Francisco R. R., 100 ft. S. and 30 ft. E. of Bloomfield crossing, in root on N. side of 20-in. oak tree; copper nail and washer 342.38

Kinder, in NW. corner of schoolyard, 50 ft. S. of St. Louis-San Francisco R. R., 250 ft. S. of store, 150 ft. E. of post office; iron post stamped, "Prim Trav Sta No 12 F 1924 Mo 342" 342.604

Reference mark, 9 ft. S. of tablet, in root on N. side of 15-in. white oak tree; copper nail and washer 342.09

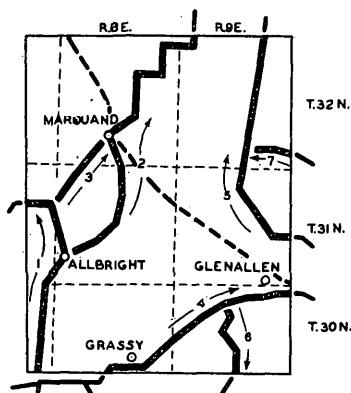
T. 27 N., R. 9 E., near cor. secs. 3, 4, 9, and 10, 15 ft. N. and 50 ft. E. of T-rd. E., in root on W. side of 20-in. white oak tree; copper nail and washer 345.24

(Continued in Puxico quadrangle; see line no. 9.)

For an additional level line along St. Louis-San Francisco R. R., refer to United States Coast and Geodetic Survey first-order line, Cape Girardeau, Mo., to Haxie, Ark.

MARQUAND QUADRANGLE
(Latitude $37^{\circ}15' - 37^{\circ}30'$; longitude $90^{\circ} - 90^{\circ}15'$)

Bollinger, Madison and Wayne Counties



1. FROM SOUTH BORDER OF QUADRANGLE NORTH TO POINT 5 MILES SOUTHWEST OF MARQUAND, THENCE WEST TO WEST BORDER (by W. R. Broadbush in 1926) Feet
- Allbright, 5.4 mi. S. of post office, 1.1 mi. N. of State Highway 34 at Castor River, 280 ft. N. of Clarence Swan's house, 20 ft. E. of Zalma-Fredericktown road, in root on E. side of 18-in. white oak tree; copper nail and washer 452.35
- Allbright, 4.3 mi. S. of post office, along Zalma-Fredericktown road, 300 ft. NW. of George Bollinger's house, 15 ft. W. of rd., on S. side of gate, in root on E. side of 24-in. walnut tree; copper nail and washer 471.64
- Allbright, 3.7 mi. S. of post office, along Zalma-Fredericktown road, 700 ft. SE. of Miller Chapel, 140 ft. E. of rd. forks, 35 ft. S. of rd. to Lutesville, at fence corner, in concrete post; standard tablet stamped "3 W R B" 452.571
- Reference mark, 18 ft. S. of tablet, in root on W. side of 20-in. hickory tree; copper nail and washer 452.67
- Allbright, 2.7 mi. S. of post office, along Zalma-Fredericktown road, near Kinder Chapel, 40 ft. S. and 25 ft. E. of rd. junction, in front of J. L. Rhodes' house, 1 ft. W. of yard gate in top of concrete block; chiseled square 491.68
- Allbright, 1.8 mi. S. of post office, along Zalma-Fredericktown road, 680 ft. N. of Kinder's general store, 70 ft. E. of rd. junction, 20 ft. N. of A. C. Kinder's house, in root on W. side of 36-in. sycamore tree; copper nail and washer 556.65
- Allbright, 0.6 mi. SE. of post office, along Zalma-Fredericktown road, 750 ft. S. of ford across Castor River, 410 ft. NW. of rd. forks, 20 ft. E. of rd., in root on W. side of 14-in. oak tree; copper nail and washer 487.42
- Castor River, at crossing of Zalma-Fredericktown road; surface of water November 30, 1926 at 10:30 a. m. 463.0
- Allbright, 480 ft. NW. of post office, 90 ft. E. of Zalma-Fredericktown road at junction of rd. to Marquand, in root on N. side of 30-in. maple tree; copper nail and washer 482.02
- Allbright, 1.1 mi. NE. of post office, in sec. 30, T. 31 N., R. 8 E., 0.2 mi. N. of ford across Castor River, 2 ft. W. of NW. corner of Allbright School, in concrete post; standard tablet stamped "P T Sta No 31 S 1926" 485.673
- Reference mark, 28 ft. W. of tablet, in root on W. side of 18-in. sycamore tree; copper nail and washer 483.45
- Allbright, 2.4 mi. N. of post office, along Zalma-Fredericktown road, 200 ft. NE. of William Havis' house, 100 ft. S. of creek crossing, 15 ft. E. of rd., in root on S. side of 36-in. white oak tree; copper nail and washer 532.07
- Allbright, 3.6 mi. N. of post office, along Zalma-Fredericktown road, 500 ft. S. of creek crossing, 190 ft. N. of N. end of long field, 20 ft. NE. of rd., in root on W. side of 40-in. white oak tree; copper nail and washer 542.12
- Marquand, 5 mi. SW. of, in SE $\frac{1}{4}$ sec. 12, T. 31 N., R. 7 E., 0.2 mi. E. of H. M. Pough's farmhouse, 10 ft. S. and 54 ft. W. of rd. forks, in concrete post; standard tablet stamped "P T Sta No 30 S 1926" 559.490
- Reference mark, 42 ft. S. 60° E. of tablet, in root on N. side of 24-in. maple tree; copper nail and washer 559.76
- Buckhorn, 4.7 mi. NE. of, along rd. to Marquand, in N $\frac{1}{2}$ sec. 14, T. 31 N., R. 7 E., 35 ft. S. of rd., on E. side of private rd. leading to C. B. Pough's house, in root on S. side of 15-in. black oak tree; copper nail and washer 597.54
- Buckhorn, 3.5 mi. NE. of, along rd. to Marquand, near center sec. 14, T. 31 N., R. 7 E., 400 ft. SW. of sawmill, 15 ft. S. and 27 ft. W. of rd. forks, in sandstone boulder; standard tablet stamped "P T Sta No 29 S 1926" 675.121
- Reference mark, 158 ft. N. 45° E. of tablet, 30 ft. NW. of rd., in root on S. side of 15-in. hickory tree; copper nail and washer 667.86

(Continued in Coldwater quadrangle; see line no. 4.)

2. FROM ALLRIGHT NORTHEAST BY WAY OF MARQUAND TO NORTH BORDER OF QUADRANGLE

- Allbright School, 1.4 mi. NE. of, on W. side of Castor River Valley, 60 ft. S. and 20 ft. W. of Lee Sitzel's house, on N. side of rd.. in root on S. side of 12-in. walnut tree; copper nail and washer 487.73
- Moore School, 0.9 mi. S. of, on W. bank of Castor River, 80 ft. N. of W. end of ford, 27 ft. NE. of rd., in bench on W. side of 36-in. leaning sycamore tree; copper nail and washer 496.44
- Castor River, 0.9 mi. S. of Moore School, at ford; surface of water December 7, 1926 at 10 a. m. 489.1
- Marquand, 5.5 mi. S. of, near quarter cor. between secs. 21 and 22, T. 31 N., R. 8 E., 45 ft. W. of rd., in concrete steps of Moore School; standard tablet stamped "P T Sta No 32 S 1926" 541.244
- Reference mark, 24 ft. S. 80° E. of tablet, in root on E. side of 12-in. cedar tree; copper nail and washer 544.16
- Marquand, 4.8 mi. S. of, 45 ft. N. and 5 ft. E. of front door of Moore Chapel, 75 ft. W. of rd. junction, in root on S. side of 24-in. red oak tree; copper nail and washer 532.11
- Marquand, 3.7 mi. S. of, 1.2 mi. S. of Big Four School, 80 ft. SE. of rd. at reverse curve, in line with fence N. along W. side of rd., in root on N. side of 18-in. hickory tree; copper nail and washer 561.16
- Marquand, 2.5 mi. S. of, at Big Four School, 60 ft. S. and 15 ft. W. of front door of Henry Watkins' farmhouse, 20 ft. N. of rd., in granite boulder; standard tablet stamped "P T Sta No 33 S 1926" (reported destroyed) 542.961
- Reference mark, 46 ft. W. of tablet, in root on S. side of 14-in. locust tree; copper nail and washer 539.65
- Castor River, 0.2 mi. NW. of Big Four School, at ford; surface of water December 8, 1926 at 2:30 p. m. 528.8
- Marquand, 1.9 mi. S. of, 12 ft. E. of rd., 20 ft. S. of gate in front of Mrs. B. E. Whitener's house, in root on W. side of 15-in. maple tree; copper nail and washer 572.57
- Marquand, 0.8 mi. SW. of, 30 ft. SE. of rd. forks, in root on W. side of 24-in. maple tree; copper nail and washer 575.85
- Castor River, at Marquand, under bridge; surface of water December 10, 1926 at 11 a. m. 549.4
- Marquand, 200 ft. S. of Missouri Pacific R. R. depot, 34 ft. N. and 15 ft. E. of R. R. at public rd. crossing, in W. end of N. wing wall of concrete culvert; standard tablet stamped "P T Sta No 34 S 1926" 571.334
- Reference mark, 488 ft. S. 40° W. of tablet, in top of S. wing wall of E. concrete abutment of steel bridge over Castor River; chiseled square 567.72

Marquand, 1.3 mi. E. of, along rd. to Patton, 110 ft. SW. of T. J. Lancaster's house, 20 ft. S. of rd.; on W. side of gate, in root on S. side of 7-in. sycamore tree; copper nail and washer	635.64
Marquand, 2.5 mi. E. of, along rd. to Patton, 65 ft. W. of rd. forks, in top of S. head wall of concrete culvert; chiseled square	716.26
Marquand, 3.5 mi. NE. of, about 0.8 mi. N. of rd. to Patton, 20 ft. W. of rd., 33 ft. NE. of house of J. H. McDaniels, in root on E. side of 14-in. pine tree; copper nail and washer	849.06
Marquand, 4 mi. NE. of, 0.2 mi. N. of cor. secs. 11, 12, 13, and 14, T. 32 N., R. 8 E., 15 ft. N. and 54 ft. W. of T-rd. N., in granite boulder; standard tablet stamped "P T Sta No 35 S 1926"	864.330
Reference mark, 100 ft. S. 70° W. of tablet, in root on N. side of large forked walnut tree; copper nail and washer	869.37
Stone's store, 1.5 mi. S. of, 35 ft. SE. of rd. junction, in root on N. side of 14-in. red oak tree; copper nail and washer	889.97

(Continued in Higdon quadrangle; see line no. 5.)

3. FROM POINT 5 MILES SOUTHWEST OF MARQUAND NORTHEAST TO MARQUAND

Marquand, 4.2 mi. SW. of, along Marquand-Buckhorn road, 0.2 mi. NE. of S. L. Stroup's house, 70 ft. N. of rd. forks, at H. Reed's mail box, in root on E. side of 24-in. post oak tree; copper nail and washer	582.42
Marquand, 3 mi. SW. of, along Marquand-Buckhorn road, 580 ft. NE. of E. C. Tripp's house, 90 ft. W. of small ravine, 20 ft. NW. of rd., in root on SE. side of 12-in. red oak tree; copper nail and washer	671.52
Marquand, 2 mi. SW. of, along Buckhorn-Marquand road, 100 ft. NE. of rd. junction at top of ridge, 45 ft. SE. of rd., in root on N. side of 12-in. hickory tree; copper nail and washer	831.20

4. FROM SOUTH BORDER OF QUADRANGLE NORTH AND EAST TO GRASSY, THENCE NORTHEAST TO EAST BORDER OF QUADRANGLE, FOLLOWING STATE HIGHWAY 34

(Continued from Zalma quadrangle; see line no. 2.)

Grassy, 1.7 mi. W. of post office, 550 ft. E. of Lee Robin's farmhouse, 30 ft. N. of State Highway 34, 3 ft. SW. of fence corner, in concrete post; standard tablet stamped "4 W R B 1926"	677.836
Reference mark, 167 ft. S. 45° E. of tablet, in root on N. side of 24-in. black oak tree; copper nail and washer	678.04
Grassy, 0.6 mi. W. of post office, 84 ft. W. of Kirkpatrick's general store, 60 ft. S. of State Highway 34, in root on N. side of 18-in. red oak tree; copper nail and washer	712.53
Grassy, 470 ft. E. of post office, along State Highway 34, in top of N. head wall of concrete culvert; chiseled square	705.90
Grassy, 1.2 mi. NE. of, 40 ft. N. of State Highway 34, in first step of concrete porch at front of R. L. Vance's house; standard tablet stamped "5 W R B 1926"	644.280
Reference mark, 31 ft. S. 45° W. of tablet, in root on S. side of 48-in. white oak tree; copper nail and washer	642.35
Grassy, about 1.9 mi. NE. of, along State Highway 34, 250 ft. SE. of McGee Church, in top of N. head wall of concrete culvert; chiseled square	683.10
Lutesville, 7.1 mi. W. of, 15 ft. S. and 40 ft. E. of State Highway 34 at junction of Gravelton road, 2 ft. inside of fence, in concrete post; standard tablet stamped "6 W R B 1926"	773.325
Reference mark, 483 ft. S. 45° W. of tablet, in top of W. head wall of concrete culvert; chiseled square	767.13
Lutesville, 6.1 mi. W. of, along State Highway 34, 580 ft. S. of E. P. McGregor's house, in top of W. head wall of concrete culvert; chiseled square	712.84
Lutesville, 6.5 mi. W. of, along State Highway 34, about 0.6 mi. E. of turn in highway, 35 ft. S. of rd., opposite Ed. Sharp's house, in root on N. side of 24-in. red oak tree; copper nail and washer	688.62
Lutesville, 4.7 mi. W. of, 35 ft. E. of State Highway 34, at foot of long hill, 2 ft. NE. of concrete culvert, 2 ft. SW. of fence corner, in concrete post; standard tablet stamped "7 W R B 1926"	531.054
Reference mark, 92 ft. S. 30° W. of tablet, in top of E. head wall of concrete culvert; chiseled square	534.28
Lutesville, 4.3 mi. W. of, along State Highway 34, 220 ft. SW. of T-rd. S., in top of S. head wall of concrete culvert; chiseled square	520.06
Lutesville, 3.1 mi. W. of, 0.2 mi. S. of Glenallen, 40 ft. S. and 25 ft. W. of State Highway 34, at rd. N., 5 ft. W. of fence corner, in concrete post; standard tablet stamped "8 W R B 1926"	455.760
Reference mark, 46 ft. N. 20° E. of tablet, NW. of rd. junction, in top of W. head wall of concrete culvert; chiseled square	454.94
Lutesville, 1.6 mi. NW. of, on S. side of State Highway 34, on W. side of point of hill, 500 ft. SW. of Missouri Pacific R. R. switch, in top of S. head wall of concrete culvert over small creek; chiseled square	435.98

(Continued in Marble Hill quadrangle; see line no. 3.)

5. FROM EAST BORDER OF QUADRANGLE NORTH TO NORTH BORDER

(Continued from Marble Hill quadrangle; see line no. 3.)

Lutesville, 4 mi. N. of, along State Highway 51, 30 ft. N. of junction of dim rd. E., in root on SE. side of 15-in. red oak tree; copper nail and washer	666.24
Lutesville, 4.7 mi. N. of, along State Highway 51, 0.2 mi. E. of quarter cor. between secs. 23 and 24, T. 31 N., R. 9 E., 13 ft. N. and 13 ft. W. of highway at cross rd., in E. end of N. wing wall of concrete culvert; standard tablet stamped "P T Sta No 39 S 1926"	687.084
Reference mark, 29 ft. E. of tablet, in top of N. head wall of concrete culvert; chiseled square	687.28

Lutesville, 5.6 mi. N. of, along State Highway 51, 385 ft. SE. of Theresa Peters' house, in top of N. head wall of concrete culvert; chiseled square	734.11
Lutesville, 6.7 mi. N. of, 11 mi. S. of Patton, along State Highway 51, 60 ft. N. of junction of dim rd. E., 33 ft. E. of highway, at curve, in root on S. side of 12-in. post oak tree; copper nail and washer	741.48
Patton, 9.8 mi. S. of, along State Highway 51, 300 ft. SW. of Monroe Robinson's farmhouse, 115 ft. S. of highway at rd. W., in S. end of E. wing wall of concrete culvert; standard tablet stamped "P T Sta No 38 S 1926"	793.485
Reference mark, 380 ft. S. 30° W. of tablet, in top of E. head wall of concrete culvert; chiseled square	780.05
Patton, 7.5 mi. S. of, along State Highway 51, 850 ft. S. of junction of rd. E., 180 ft. E. of J. S. Cheek's house, in top of head wall of culvert; chiseled square	773.78
Patton, 6.5 mi. S. of, along State Highway 51, in NW $\frac{1}{4}$ sec. 34, T. 32 N., R. 9 E., 30 ft. N. and 15 ft. E. of highway at rd. W. to Bessville, in S. end of E. wing wall of concrete culvert; standard tablet stamped "P T Sta No 37 S 1926"	864.288
Reference mark, 580 ft. N. 15° E. of tablet, in top of E. head wall of concrete culvert; chiseled square	869.25
Patton, 5.4 mi. S. of, along State Highway 51, 0.9 mi. SW. of Sitze's store, 230 ft. S. of junction of rd. N., in top of concrete head wall of culvert; chiseled square	817.23
Patton, 4.3 mi. S. of, along State Highway 51, 0.3 mi. N. of Sitze's store, at NE. corner of cross rd., in top of N. head wall of concrete culvert; chiseled square	866.43
Patton, 3.2 mi. S. of, along State Highway 51, 0.2 mi. S. of L. E. Martin's farmhouse, in S. end of W. wing wall of concrete culvert; standard tablet stamped "P T Sta No 36 S 1926"	782.577
Reference mark, 25 ft. N. 80° E. of tablet, in top of E. wing wall of concrete culvert; chiseled square	782.45
Patton, 2.1 mi. S. of, along State Highway 51, 500 ft. S. of junction of Marquand-Patton road, in top of E. concrete guard wall of N. abutment of steel bridge; chiseled square	633.60
Patton, 1.1 mi. S. of, along State Highway 51, 380 ft. S. of T-rd. E., in top of E. head wall of concrete culvert; chiseled square	612.73

(Continued in Higdon quadrangle; see line no. 6.)

6. FROM POINT NEAR CENTER OF SOUTHEAST QUARTER OF QUADRANGLE SOUTH TO SOUTH BORDER
(by George W. Moore in 1931)

Glenallen, about 2.1 mi. SW. of, in NW $\frac{1}{4}$ sec. 10, T. 30 N., R. 9 E., 310 ft. N. of private cross rd., on E. side of rd., in fence line, in root on SW. side of 13-in. hickory tree; copper nail and washer	668.74
Glenallen, about 3 mi. SW. of, near SW. cor. sec. 10, T. 30 N., R. 9 E., 55 ft. N. and 20 ft. E. of rd. forks, 7 ft. W. of corner fence post, in root on W. side of 21-in. oak tree; copper nail and washer	709.92
Glenallen, about 4 mi. SW. of, near center sec. 15, T. 30 N., R. 9 E., 19 ft. S. and 7 ft. E. of rd. fork S., on top of hill in woods, in concrete post; standard tablet stamped "T. 49 E 1931"	734.282
Reference mark, 38 ft. W. of tablet, 20 ft. S. of rd. forks, in root on N. side of 7-in. oak tree; copper nail and washer	733.68
T. 30 N., R. 9 E., in SW $\frac{1}{4}$ sec. 14, 210 ft. S. and 16 ft. E. of T-rd. W., 45 ft. NE. of NE. corner of Dry Creek Cemetery, in root on NW. side of 20-in. oak tree; copper nail and washer	688.71
T. 30 N., R. 9 E., about 0.2 mi. S. of N. cor. secs. 22 and 23, 35 ft. N. of rd. fork S., in root on SE. side of 12-in. oak tree; copper nail and washer	695.90
T. 30 N., R. 9 E., in SE $\frac{1}{4}$ sec. 22, about 0.9 mi. N. of ford across Cane Creek, 60 ft. SW. of rd. forks near top of hill, in root on N. side of 9-in. oak tree; copper nail and washer	654.58

(Continued in Zalma quadrangle; see line no. 3.)

7. FROM EAST BORDER OF QUADRANGLE WEST ALONG HIGHWAYS TO POINT 6.5 MILES SOUTH OF PATTON (by W. R. Broadus in 1933)

(Continued from Marble Hill quadrangle; see line no. 9.)

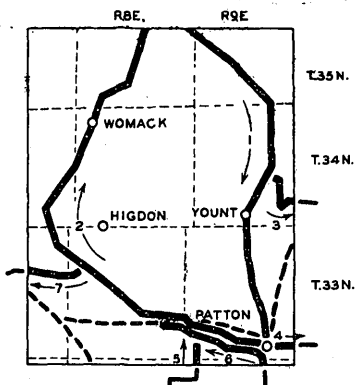
Scopus, 5.2 mi. W. of, in NE $\frac{1}{4}$ sec. 36, T. 32 N., R. 9 E., 15 ft. S. and 28 ft. W. of rd. corner from E. to N., in root on N. side of 24-in. white oak tree; copper nail and washer	761.44
Scopus, 5.9 mi. W. of, in NE $\frac{1}{4}$ sec. 35, T. 32 N., R. 9 E., 0.4 mi. E. of Hurricane School and Church, 450 ft. E. of ford across creek, 35 ft. S. and 60 ft. W. of crossroads, 17 ft. S. of 36-in. white oak tree; in concrete post; standard tablet stamped "3 B 1933 675"	674.438
Reference mark, 21 ft. N. of tablet, in root on N. side of 36-in. white oak tree; copper nail and washer	674.93
Scopus, 6.5 mi. W. of, 0.4 mi. E. of W. cor. secs. 26 and 35, T. 32 N., R. 9 E., 1 mi. E. of State Highway 51, 170 ft. W. of C. N. Welton's house, 15 ft. N. of rd., at foot of hill, in root on SE. side of 30-in. locust tree; copper nail and washer	694.40
Top of hill	809.
Scopus, 7.2 mi. W. of, 0.2 mi. W. of E. cor. secs. 27 and 34, T. 32 N., R. 9 E., 0.6 mi. E. of State Highway 51, near J. M. Trentham's farmhouse, 25 ft. S. of rd., in root on N. side of 14-in. white oak tree; copper nail and washer	846.93

For an additional level line along Missouri Pacific R. R., refer to United States Coast and Geodetic Survey second-order line, Fredericktown to Delta.

SPIRIT LEVELING IN MISSOURI

HIGDON QUADRANGLE
(Latitude $37^{\circ}30' - 37^{\circ}45'$; longitude $90^{\circ} - 90^{\circ}15'$)

Bollinger, Madison, Perry, St. Francois, and Ste. Genevieve Counties



1. SOUTH ALONG EAST BORDER OF QUADRANGLE (by Edward Bandli in 1907)

Minnith, 6.3 mi. S. of, 7.7 mi. NW. of Silver Lake, halfway up hill, at curve in rd. to S., 20 ft. W. of rd., 5 ft. SE. of large oak tree, in ledge of rock; aluminum tablet stamped "680" 649.990
Silver Lake, 5.6 mi. N. of, 8.4 mi. S. of Minnith, near signpost at fork of rd., in root of tree; nail 845.64
Silver Lake, 1.8 mi. NW. of, 20 ft. N. and 10 ft. W. of rd. at private rd. N., in ledge of rock; aluminum tablet stamped "608" 607.594
Silver Lake, 0.6 mi. S. of, 400 ft. from crossroads, 25 ft. E. of cluster of trees, 15 ft. N. of a second cluster of trees, in ledge of rock across small stream from rd. intersection; aluminum tablet stamped "545" 544.235
T. 34 N., R. 9 E., near center sec. 14, 0.1 mi. NE. of Tucker's house, 200 ft. S. of creek, 10 ft. E. of rd., 6 ft. N. of large oak tree, 4 ft. NE. of small tree, in ledge of sandstone; aluminum tablet stamped "607" 606.153
Silver Lake, 6.9 mi. S. of, 0.1 mi. S. of Yount post office, at NW. corner of crossroads, in root of tree; nail 626.60
Yount post office, 1.3 mi. S. of, 0.2 mi. from Yount's house, 220 ft. W. of Fredericktown road at junction with private rd., across creek from rd., in ledge of rock; aluminum tablet stamped "609" 609.978
Patton, 4.2 mi. N. of, 0.1 mi. SE. of George Regan's house, 30 ft. SE. of bridge, 10 ft. E. of rd.; aluminum tablet stamped "700" 700.005
Patton, on W. side of Main Street, at SE. corner of Johnson Brothers' flour mill, in stone foundation wall; aluminum tablet stamped "Erim Trav Sta No 8 1907 Mo 605" 604.612

2. FROM PATTON WEST AND NORTH TO POINT 4.3 MILES NORTHEAST OF FREDERICKTOWN, THENCE NORTHEAST BY WAY OF WOMACK TO NORTH BORDER OF QUADRANGLE

Patton, 2.3 mi. NW. of, 300 ft. N. of Fredericktown road at private rd. fork, 90 ft. E. of spring flowing from ledge of rock, 200 ft. N. of Schneider's house; aluminum tablet stamped "639" 640.552
Patton, 5.2 mi. NW. of, 55 ft. W. of NW. corner of T-rd. N., 13 ft. S. of fence, in large sandstone; aluminum tablet stamped "939" 938.511
Patton, 8.1 mi. NW. of, 20 ft. N. of rd., 50 ft. NW. of NW. corner of field, near private rd., in ledge of rock; aluminum tablet stamped "691" 690.883
Patton, 10.4 mi. NW. of, on W. side of Tucker Creek, on hill, 20 ft. E. of rd. at curve to W., 300 ft. SE. of house, in ledge of rock; aluminum tablet stamped "686" 685.354
Higdon, 2.5 mi. SW. of, 4.6 mi. E. of Fredericktown, 0.2 mi. W. of house at rd. fork, 0.2 mi. E. of house on top of hill, 10 ft. N. of rd., in granite ledge; aluminum tablet stamped "910" 909.917
Fredericktown, 4.3 mi. NE. of courthouse, 0.3 mi. W. of St. Mary road, in Village Creek Valley, 370 ft. SE. of dim rd. fork, 50 ft. N. of dim rd., 250 ft. S. and 300 ft. E. of house, in shallow ravine, in rock ledge; aluminum tablet stamped "855" 854.528
Womack, 6.9 mi. SW. of, 200 ft. N. of intersection, 30 ft. E. of rd.; large rock 1,063.44
Womack, 4.4 mi. S. of, 0.5 mi. E. of Rydan's house, 30 ft. N. of creek, 3 ft. N. of rd., in large boulder; aluminum tablet stamped "949" 948.553
Womack, 2.6 mi. S. of, along Castor River road, 5 ft. W. of rd. at curve, in large granite boulder; aluminum tablet stamped "966" 965.009
Womack, about 1.3 mi. NE. of, near Johnson, 60 ft. N. of rd. at curve to E., on hill across creek from rd., in large boulder; aluminum tablet stamped "927" 926.244
Womack, 4 mi. NE. of, 0.2 mi. from house of Mr. Nation, Jr., 60 ft. E. of rd., in ledge on opposite bank of Coldwater Creek; aluminum tablet stamped "694" 693.718
Womack, 6.8 mi. NE. of, 3 mi. S. of Saline Valley R. R., N. of rd. intersection, 120 ft. W. of rd., on W. bank of Coldwater Creek; aluminum tablet stamped "557" 556.752

3. NEAR CENTER OF EAST BORDER OF QUADRANGLE (by R. T. Gale in 1921)

T. 34 N., R. 9 E., near center of NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, on L. J. Hogan's land, 10 ft. N. of E.-W. rd., 40 ft. N. of fence corner, in twin white oak tree; copper nail and washer 786.66
 T. 34 N., R. 9 E., near center of W $\frac{1}{2}$ sec. 26, 10 ft. N. of rd. at rd. NW., 50 ft. E. of fence corner, in root on W. side of 24-in. black oak tree; copper nail and washer 849.37
 T. 34 N., R. 9 E., in NE. cor. SW $\frac{1}{4}$ sec. 26, on land owned by Peter Garle, 80 ft. E. of Uniontown-Yount road, 5 ft. S. of fence corner; iron post stamped "Prim Trav Sta No 21 J B L 1921 Mo 876" 876.038
 (Continued in Perryville quadrangle; see line no. 1.)

4. FROM PATTON EAST TO EAST BORDER OF QUADRANGLE

Patton, 0.7 mi. E. of, along rd. to Oak Ridge, 50 ft. SW. of small concrete culvert, in root on N. side of 48-in. black oak tree; copper nail and washer 606.91
 (Continued in Perryville quadrangle; see line no. 2.)

5. FROM SOUTH BORDER OF QUADRANGLE NORTH TO POINT 5 MILES NORTHWEST OF PATTON (by W. R. Broadus in 1926 and 1927)

(Continued from Marquand quadrangle; see line no. 2.)

Stone's store, 90 ft. N. and 20 ft. W. of, 15 ft. W. of crossroads, in root on E. side of 18-in. red oak tree; copper nail and washer 899.00
 Stone's store, 1.3 mi. N. of, 0.8 mi. S. of U. S. Highway 61, 10 ft. W. of rd., near edge of timber, 65 ft. S. of field fence, in root on E. side of 18-in. red oak tree; copper nail and washer 921.41

6. FROM PATTON NORTHWEST ABOUT 8.1 MILES

(Continued from Marquand quadrangle; see line no. 5.)

Patton, 1 mi. W. of, 30 ft. NE. of rd. forks, in root on W. side of 14-in. cherry tree; iron nail and copper washer 690.67
 Patton, 1.6 mi. W. of, on S. side of old Fredericktown road, in hollow, in top of head wall of concrete culvert; chiseled square 666.24
 Patton, 2.8 mi. NW. of, NW. of U. S. Highway 61 at cross rd., in top of W. head wall of concrete culvert; chiseled square 701.96
 Patton, 3.7 mi. NW. of, 40 ft. S. of U. S. Highway 61, on top of ridge, in root on N. side of 16-in. post oak tree; copper nail and washer 893.20
 Patton, 4.8 mi. NW. of, 30 ft. N. of U. S. Highway 61, 300 ft. SE. of J. E. Hanson's house, in root on S. side of 30-in. post oak tree; copper nail and washer 930.51
 Patton, 5.8 mi. NW. of, on N. side of U. S. Highway 61, 85 ft. E. of cross rd., in top of N. head wall of concrete culvert; chiseled square 896.49
 Patton, 7.1 mi. NW. of, on old Patton-Fredericktown road, 0.4 mi. E. of Mrs. E. E. Powell's house, 35 ft. S. of rd., in root on N. side of 16-in. red oak tree; copper nail and washer 788.95

7. FROM POINT 2.5 MILES SOUTHWEST OF HIGDON WEST TO WEST BORDER OF QUADRANGLE

Fredericktown, 3.9 mi. E. of, along Perryville road, 15 ft. S. and 30 ft. W. of T-rd. N. at right angle turn in rd., in root on N. side of 36-in. post oak tree; copper nail and washer 890.92
 Fredericktown, 3 mi. E. of, along Perryville road, 1 mi. E. of W. J. Backler's house, in hollow, in top of S. head wall of concrete culvert; chiseled square 843.70
 Fredericktown, 2 mi. E. of, along Perryville road, 250 ft. W. of W. J. Backler's house, 40 ft. N. and 20 ft. W. of dim T-rd. N., in root on S. side of 16-in. sycamore tree; copper nail and washer 820.84
 Fredericktown, 3.8 mi. NE. of courthouse, on St. Mary road, in Village Creek Valley, 400 ft. N. and 100 ft. W. of large brick house, 20 ft. N. of dim rd. forks, in root on S. side of 18-in. locust tree; copper nail and washer 800.26

(Continued in Knoblick quadrangle; see line no. 1.)

TIE BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD-ORDER LINE AT PATTON

Patton, on W. side of Main Street, at SE. corner of Johnson Brothers' flour mill, in stone foundation wall; aluminum tablet stamped "Prim Trav Sta No 8 1907 Mo 605" 604.612
 U. S. C. & G. S. B. M. designated "W 139 1935" 683.683

TIE BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD-ORDER LINE ABOUT 6 MILES NORTHWEST OF PATTON

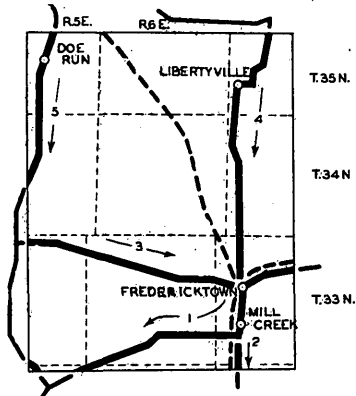
Patton, 5.8 mi. NW. of, on N. side of U. S. Highway 61, 85 ft. E. of cross rd., in top of N. head wall of concrete culvert; chiseled square 896.49
 U. S. C. & G. S. B. M. designated "S 139 1935" 917.528

For additional level lines along Missouri Pacific R. R., U. S. Highway 61, and State Highway 51, refer to United States Coast and Geodetic Survey second-order lines; Fredericktown to Delta and Fredericktown to Claryville.

SPIRIT LEVELING IN MISSOURI

KNOB LICK QUADRANGLE
(Latitude 37°30'-37°45'; longitude 90°15'-90°30')

Madison, St. Francois, and Ste. Genevieve Counties



1. FROM EAST BORDER OF QUADRANGLE SOUTHWEST BY WAY OF FREDERICKTOWN AND MILL CREEK TO SOUTH BORDER (by W. R. Broadus in 1926)
(Continued from Higdon quadrangle; see line no. 7.)

	Feet
Fredericktown, 2.8 mi. NE. of, on St. Marys road, in Village Creek Valley, 800 ft. W. of R. Miller's house, 17 ft. S. and 50 ft. E. of T-rd. N., in root on W. side of 10-in. mulberry tree; copper nail and washer	761.49
Fredericktown, 2 mi. NE. of, 0.5 mi. E. of junction of Fredericktown-St. Marys road and U. S. Highway 61, on St. Marys road at crossing of Village Creek, in top of S. end of wall on W. side of concrete bridge; chiseled square	733.28
Fredericktown, 1.6 mi. NE. of, about 0.3 mi. N. of junction of U. S. Highways 61 and 67, 26 ft. N. and 32 ft. E. of U. S. Highway 61 at St. Marys road, in SW. corner of Frank Budenholzer's yard. In concrete post; standard tablet stamped "1 W R B 1926"	746.061
Reference mark, 22 ft. S. 45° W. of tablet, in top of E. head wall of concrete culvert; chiseled square	742.67
Fredericktown, Missouri Pacific R. R. station; S. rail	721.8
Fredericktown, at E. edge of platform on E. side of Missouri Pacific R. R. station, 1 ft. S. of N. brick pillar supporting an extended part of roof, in top of concrete base of iron railing; chiseled square	722.84
Fredericktown, 25 ft. S. and 15 ft. W. of S. door of courthouse, 4 ft. N. of curbing, in concrete base of old cannon; standard tablet stamped "P T Sta No 11 S 1926"	743.056
Reference mark, 11 ft. S. of tablet, in top of street curbing; chiseled square	742.67
Fredericktown, 0.2 mi. S. of courthouse, at NE. corner of Southern M. E. Church, in first step directly below cornerstone; chiseled square	733.27
Fredericktown, 0.9 mi. S. of courthouse, 15 ft. N. and 20 ft. E. of U. S. Highway 67 at driveway to cemetery, in top of concrete block; chiseled square	799.40
Fredericktown, 2.1 mi. S. of courthouse, along U. S. Highway 67, 0.4 mi. N. of Mill Creek post office, on SW. slope of ridge, in top of W. head wall of concrete culvert; chiseled square	759.16
Fredericktown, 2.5 mi. S. of, 0.5 mi. S. of Mill Creek post office, in NW. cor. sec. 30, T. 33 N., R. 7 E., 100 ft. W. of intersection of French Mills road and U. S. Highway 67, between rd. forks, in concrete post; standard tablet stamped "P T Sta No 17 S 1926"	751.084
Reference mark, 9 ft. E. of tablet, in root on W. side of 20-in. post oak tree; copper nail and washer	750.86
Fredericktown, 4 mi. SW. of, along French Mills road, 1.2 mi. W. of U. S. Highway 67, 300 ft. SE. of old two-story house, in top of N. head wall of concrete culvert; chiseled square	788.53
Fredericktown, 5.2 mi. SW. of, along French Mills road, 2.2 mi. W. of U. S. Highway 67, 20 ft. N. and 25 ft. W. of lane S. to Dick Pippin's house, in front of Gus King's house, in root on SE. side of 16-in. black oak tree; copper nail and washer	787.18
Fredericktown, 3 mi. S. and 4 mi. W. of, near cor. secs. 21, 22, 27, and 28, T. 33 N., R. 6 E., 700 ft. W. of ford across Matthews Creek, 25 ft. S. and 45 ft. W. of rd. forks, in sandstone ledge; standard tablet stamped "P. T No 18 S 1926"	700.452
Reference mark, 67 ft. N. 45° E. of tablet, in top of E. head wall of concrete culvert; chiseled square	693.67
Fredericktown, 7.8 mi. SW. of, along French Mills road, 470 ft. SW. of Little Vine School, 30 ft. S. of cross lane, in root on S. side of 14-in. hickory tree; copper nail and washer	747.33
Fredericktown, 8.4 mi. SW. of, along French Mills road, 0.4 mi. W. of Little Vine School, 130 ft. W. of Faro road fork, 20 ft. N. of rd., in root on SW. side of 24-in. water oak tree; copper nail and washer	736.64
Fredericktown, 8.9 mi. SW. of, along French Mills road, 0.8 mi. SW. of Little Vine School, 50 ft. W. of first ford across Cedar Creek, in root on SW. side of 24-in. red oak tree; copper nail and washer	662.69
Fredericktown, 10.2 mi. SW. of, along French Mills road, in NE 1/4 sec. 31, T. 33 N., R. 6 E., 24 ft. N. and 10 ft. W. of rd. fork NE. to Sam La Plant's house, 2 ft. E. of N.-S. wire fence, in concrete post; standard tablet stamped "P T Sta No 19 S 1926"	617.022
Reference mark, 36 ft. S. of tablet, in root on N. side of 20-in. sycamore tree; copper nail and washer	618.10

Fredericktown, 11 mi. SW. of, along French Mills road, 0.7 mi. NE. of ford across St. Francis River, 500 ft. N. of Cedar Valley School, 60 ft. S. and 20 ft. W. of gate to barnyard with silo on Cedar Valley Farm, 7 ft. SE. of rd. in root on N. side of 14-in. locust tree; copper nail and washer 587.64

Fredericktown, 11.7 mi. SW. of, along French Mills road, 200 ft. N. of E. end of ford across St. Francis River, 20 ft. E. of rd., in root on E. side of 16-in. sugar maple tree; copper nail and washer 572.76

St. Francis River, at ford on Fredericktown-French Mills road, surface of water on October 7, 1926 at 5 p. m. 558.6

Fredericktown, 11.8 mi. SW. of, along French Mills road, on W. bank of St. Francis River, 35 ft. N. of W. end of ford, in root 4 ft. W. of 24-in. sycamore tree; copper nail and washer 562.75

(Continued in Coldwater quadrangle; see line no. 1.)

2. FROM MILL CREEK SOUTH TO SOUTH BORDER OF QUADRANGLE

Fredericktown, 4.1 mi. S. of, along U. S. Highway 67, 100 ft. N. of highway at lane to Jasper Bolken's house, in top of E. head wall of concrete culvert; chiseled square 800.77

(Continued in Coldwater quadrangle; see line no. 2.)

3. FROM WEST BORDER OF QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 70 TO FREDERICKTOWN (by F. C. Lentz in 1935)

(Continued from Middlebrook quadrangle; see line no. 4.)

T. 33 N., R. 5 E., NW $\frac{1}{4}$ sec. 3, 250 ft. W. of entrance to farm, 20 ft. N. of State Highway 70, in top of head wall of concrete culvert; chiseled square 727.89

T. 33 N., R. 5 E., NW $\frac{1}{4}$ sec. 2, 200 ft. S. of barn, 15 ft. N. of State Highway 70, in head wall of concrete culvert; chiseled square 786.10

Fredericktown, 9 mi. W. of, along State Highway 70, 250 ft. W. of old house, 35 ft. N. of highway, 1 ft. S. of wire fence, in root on S. side of 36-in. black oak tree; copper nail and washer 840.35

Fredericktown, 8 mi. W. of, along State Highway 70, 420 ft. S. and 140 ft. W. of quarter cor. between secs. 1 and 6, T. 33 N., R. 5 and 6 E., 1,000 ft. W. of residence of W. M. St. Clair, 36 ft. N. of rd., 12 ft. SE. of SE. corner of old house, in concrete post; standard tablet stamped "P T Sta No 8 S 1926" 754.761

Reference mark, 90 ft. SW. of tablet in 30-in. white oak tree; copper nail and washer 752.00

Fredericktown, 7 mi. W. of, along State Highway 70, sec. 5, T. 33 N., R. 6 E., 45 ft. N. and 20 ft. W. of highway at entrance to farm, in root on S. side of 12-in. white oak tree; copper nail and washer 736.79

Fredericktown, 6 mi. W. of, along State Highway 70, at Hunter's store, 0.2 mi. N. of cor. secs. 4, 5, 8, and 9, T. 33 N., R. 6 E., 150 ft. W. of T-rd. S., 25 ft. S. of highway, near wire fence, in concrete post; standard tablet stamped "P T No 9 S 1926" 744.034

Reference mark, 80 ft. NW. of tablet, in 30-in. maple tree; copper nail and washer 743.88

Fredericktown, 5 mi. W. of, along State Highway 70, in SE $\frac{1}{4}$ sec. 4, T. 33 N., R. 6 E., 275 ft. N. of Oak Grove School, 35 ft. S. and 7 ft. W. of highway at rd. S., in top of abutment at NW. corner of small bridge; chiseled square 699.25

Fredericktown, 4 mi. W. of, along State Highway 70, in NE $\frac{1}{4}$ sec. 10, T. 33 N., R. 6 E., 20 ft. N. of highway, 15 ft. S. of wire fence, 9 ft. S. of 12-in. white oak tree, in top of granite boulder; chiseled square 835.03

Fredericktown, 5 mi. W. of, along State Highway 70, in NE $\frac{1}{4}$ sec. 11, T. 33 N., R. 6 E., in top of abutment at NE. corner of bridge no. G-414; chiseled square 683.15

Fredericktown, 2 mi. W. of, along State Highway 70, in SE $\frac{1}{4}$ sec. 12, T. 33 N., R. 6 E., 420 ft. SW. of residence of G. W. Lampher; 18 ft. N. and 21 ft. W. of T-rd. N., in concrete culvert; standard tablet stamped "P T Sta No 10 S 1926" 762.011

Note.—Tablet moved 37 ft. N. 72°45' W. of above description. Elevation as given is correct.

Reference mark, 125 ft. SE. of tablet, in root of 40-in. white oak tree; copper nail and washer 760.11

Fredericktown, 1 mi. W. of, along State Highway 70, at bridge over Little St. Francis River, in top of abutment at NE. corner; chiseled square 707.45

U. S. C. & G. S. B. M. designated "R 56 1934" 714.070

U. S. C. & G. S. B. M. designated "J 139 1935" 725.563

4. FROM NORTHEAST CORNER OF QUADRANGLE SOUTH TO FREDERICKTOWN (Continued from Farmington quadrangle; see line no. 7.)

Avon, 2 mi. W. and 1 mi. S. of, 20 ft. NW. of rd., 20 ft. E. of wire fence, in root on E. side of 36-in. black oak tree; copper nail and washer 1,067.01

Libertyville, about 1 mi. NE. of, 15 ft. W. of rd., 10 ft. E. of wire fence, in top of head wall of concrete culvert; chiseled square 1,026.91

T. 35 N., R. 7 E., NW $\frac{1}{4}$ sec. 28, 800 ft. N. of residence of W. D. Miller, 12 ft. E. of rd., in head wall of concrete culvert, standard tablet stamped "12 L 1935" 954.678

Reference mark, 390 ft. S. of tablet, 75 ft. E. of rd., 20 ft. S. of 12-in. walnut tree, in sandstone ledge; chiseled square 955.05

Libertyville, 300 ft. SE. of high school, 80 ft. W. of crossroads, 35 ft. NE. of rd., in root on S. side of 38-in. hickory tree; copper nail and washer 911.65

Libertyville, 1 mi. S. of, 200 ft. N. of creek, 30 ft. NW. of rd., 6 ft. W. of wire fence, in root on E. side of 40-in. white oak tree; copper nail and washer 851.08

Libertyville, 2 mi. S. of, 300 ft. SE. of brick store building, 35 ft. E. of U. S. Highway 61 at rd. N., in head wall of concrete culvert; standard tablet stamped "13 L 1935" 941.328

Reference mark, 100 ft. S. of tablet, 40 ft. E. of highway, in 10-in. white oak tree; copper nail and washer 943.22

Fredericktown, 8 mi. N. of, 280 ft. SE. of Rock Creek School, 20 ft. S. and 35 ft. W. of U. S. Highway 61 at rd. W., in head wall of concrete culvert; chiseled square	883.05
Fredericktown, 7 mi. N. of, 35 ft. N. and 55 ft. E. of U. S. Highway 61 at dim rd. E., in root on W. side of 30-in. black oak tree; copper nail and washer	939.27
Fredericktown, 6 mi. N. of, along U. S. Highway 61, at Madison-St. Francois's county line, in abutment at NW. corner of bridge no. J-80; standard tablet stamped "14 L 1935"	862.149
Reference mark, 375 ft. S. of tablet; top of sandstone boulder; painted square	867.51
Fredericktown, about 5 mi. N. of, along U. S. Highway 61, 0.5 mi. N. of Mine La Motte post office, 30 ft. W. of highway, in top of head wall of concrete culvert; chiseled square	860.57
Fredericktown, about 4 mi. N. of, along U. S. Highway 61, 500 ft. SE. of Mine La Motte School, in abutment at NW. corner of concrete bridge; chiseled square	795.52
Fredericktown, about 3 mi. N. of, along U. S. Highway 61, 250 ft. NE. of filling station, 55 ft. E. of highway; top of granite monument	872.61
Fredericktown, about 2 mi. N. of, along U. S. Highway 61, 100 ft. E. of old house, 40 ft. W. of highway, standard reference mark tablet stamped "15 L 1935"	821.116
Fredericktown, about 1 mi. N. of, along U. S. Highway 61, 20 ft. W. of highway, in 30-in. elm tree; copper nail and washer	736.05

5. SOUTH ALONG NORTH HALF OF WEST BORDER OF QUADRANGLE
(Continued from Farmington quadrangle; see line no. 6.)

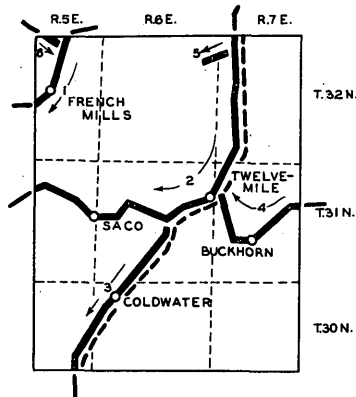
Doe Run, 100 ft. N. of Mississippi River and Bonnetterre R. R. depot, 40 ft. W. of R. R. track, in line with R. R. property post, in concrete post; standard tablet stamped "P T No 16 S 1926"	939.635
Doe Run Junction, 4 mi. S. of, 280 ft. N. of Mississippi River and Bonnetterre R. R., 17 ft. E. of rd., on E. side of 24-in. sycamore tree; copper nail and washer	877.50
Doe Run Junction, 5 mi. SE. of, 35 ft. E. of Mississippi River and Bonnetterre R. R., 150 ft. N. of rail fence; top of granite boulder	846.06
Doe Run, about 3 mi. SE. of, in NE $\frac{1}{4}$ sec. 28, T. 35 N., R. 5 E., 275 ft. N. of residence of H. S. Jones, 10 ft. E. of rd., in top of E. head wall of concrete culvert; standard tablet stamped "6 L 1935"	839.298
Doe Run, about 3 mi. S. of, 600 ft. E. of farmhouse of Lloyd Deago, 50 ft. N. and 40 ft. E. of T-rd. E., 60 ft. S. and 40 ft. E. of T-rd. W., in granite boulder; standard tablet stamped "P T No 15 S 1926"	927.282
Reference mark, 80 ft. SW. of tablet, in 14-in. black oak tree; copper nail and washer	932.58
T. 35 N., R. 5 E., in SE $\frac{1}{4}$ sec. 33, 75 ft. S. and 20 ft. E. of rd. forks, on W. side of 12-in. black oak tree; copper nail and washer	937.90
T. 34 N., R. 5 E., in NE $\frac{1}{4}$ sec. 4, 75 ft. N. of T-rd. W., 10 ft. W. of rd.; top of granite boulder; painted square	843.00
T. 34 N., R. 5 E., in NE $\frac{1}{4}$ sec. 9, 150 ft. S. of B. Bainter's residence, 10 ft. W. of rd., 10 ft. E. of fence line, in granite ledge; standard tablet stamped "8 L 1935"	770.315
Reference mark, 100 ft. S. of tablet, in 14-in. hickory tree; copper nail and washer	777.70
T. 34 N., R. 5 E., in NE $\frac{1}{4}$ sec. 16, 25 ft. W. of rd., 25 ft. NE. of creek, in 36-in. water oak tree; copper nail and washer	736.10
T. 34 N., R. 5 E., in NE $\frac{1}{4}$ sec. 21, 20 ft. E. of rd., near entrance to farm, in 15-in. white oak tree; copper nail and washer	800.43
T. 34 N., R. 5 E., near center sec. 21, 25 ft. SE. of rd., in granite ledge; standard tablet stamped "5 L 1935"	808.400
Reference mark, 115 ft. SW. of tablet, in 12-in. white oak tree; copper nail and washer	812.49

(Continued in Middlebrook quadrangle; see line no. 6.)

For additional level lines along Missouri Pacific R. R. and U. S. Highway 67, refer to United States Coast and Geodetic Survey second-order lines; Elvins to Taskee and Fredericktown to Delta.

COLDWATER QUADRANGLE
(Latitude 37°15'-37°30'; longitude 90°15'-90°30')

Madison and Wayne Counties



1. IN NORTHWEST CORNER OF QUADRANGLE (by W. R. Broadus in 1926)
(Continued from Knob Lick quadrangle; see line no. 1.)

	Feet
French Mills, 3 mi. N. of post office along Fredericktown road, 1.3 mi. S. of ford across St. Francis River, 20 ft. W. of rd., opposite Clarence Crow's house, in root on E. side of 24-in. white oak tree; copper nail and washer	629.15
French Mills, 1.8 mi. N. of post office, along Fredericktown road, 2 mi. S. of ford across St. Francis River, 450 ft. S. of dim rd. forks, 80 ft. W. of W. bank of river, 10 ft. W. of rd., in first bench of large granite boulder; standard tablet stamped "P T Sta No 20 S 1926"	560.427
Reference mark, 23 ft. S. 10° W. of tablet, in root on E. side of 10-in. hickory tree; copper nail and washer	561.12
French Mills, 0.3 mi. NE. of post office, 180 ft. N. of large field, 10 ft. W. of Fredericktown road, 65 ft. S. of dim rd. fork to ford across St. Francis River, in root on NE. side of 20-in. red oak tree; copper nail and washer	561.40
French Mills, 0.3 mi. S. of post office, 15 ft. W. of rd., 75 ft. S. of lane W. to King School, in root on E. side of 20-in. red oak tree; copper nail and washer	610.53

(Continued in Des Arc quadrangle; see line no. 7.)

2. FROM NORTH BORDER OF QUADRANGLE SOUTH ALONG U. S. HIGHWAY 67 TO POINT NEAR CENTER, THENCE WEST TO WEST BORDER
(Continued from Knoblick quadrangle; see line no. 2.)

Fredericktown, 4.9 mi. S. of, along U. S. Highway 67, 75 ft. W. of Ebenezer Church, 55 ft. E. of highway, in root on W. side of 14-in. red oak tree; copper nail and washer	862.78
Fredericktown, 5.7 mi. S. of, along U. S. Highway 67, on top of high ridge, 135 ft. S. of county rd. W., in top of W. head wall of concrete culvert; chiseled square	990.19
Fredericktown, 6.3 mi. S. of, along U. S. Highway 67, 60 ft. N. and 424 ft. W. of cor. secs. 5, 6, 7, and 8, T. 32 N., R. 7 E., 560 ft. N. of house of G. W. Berry, in N. end of E. wing wall of concrete culvert; standard tablet stamped "P T Sta No 21 S 1926"	883.473
Reference mark, 625 ft. S. of tablet, in top of E. head wall of concrete culvert; chiseled square	879.81
T. 32 N., R. 7 E., in $\frac{1}{2}$ sec. 17, on U. S. Highway 67, at crossing of Twelvemile Creek, in top of downstream head wall of NE. abutment of steel bridge; chiseled square	815.99
T. 32 N., R. 7 E., near line between secs. 17 and 20, on U. S. Highway 67, 1 mi. N. of Antioch Church, 450 ft. S. of highway at lane crossing, in top of E. head wall of concrete culvert; chiseled square	787.01
Antioch Church, in SW. cor. sec. 20, T. 32 N., R. 7 E., 48 ft. W. of U. S. Highway 67 at junction of rd., 25 ft. S. and 55 ft. E. of SE. corner of church, in concrete post; standard tablet stamped "P T Sta No 22 S 1926"	791.613
Reference mark, 31 ft. N. 40° E. of tablet, in root on S. side of 24-in. white oak tree; copper nail and washer	791.44
T. 32 N., R. 7 E., on line between secs. 29 and 30, on U. S. Highway 67, 1 mi. S. of Antioch Church, 180 ft. S. of Lloyd Whitener's house, on E. side of highway, in top of head wall of concrete culvert; chiseled square	724.93
T. 32 N., R. 7 E., in $\frac{1}{2}$ sec. 31, on U. S. Highway 67, 0.2 mi. S. of Zion School, 270 ft. N. and 23 ft. W. of highway at rd. E., opposite P. C. Spain's house, in root on S. side of 30-in. black oak tree; copper nail and washer	703.17
Tps. 31 and 32 N., Rs. 6 and 7 E., about 0.4 mi. E. of cor. of township line, 45 ft. E. of U. S. Highway 67, in NE. corner of front step of Zion Church; standard tablet stamped "P T Sta No 23 S 1926"	705.051
Reference mark, 76 ft. N. 30° W. of tablet, in root on NW. side of 30-in. white oak tree; copper nail and washer	702.71
T. 31 N., R. 6 E., in SE $\frac{1}{4}$ sec. 1, on U. S. Highway 67, 0.5 mi. N. of Twelvemile Store, 70 ft. S. of highway at rd. E., in top of E. head wall of concrete culvert; chiseled square	689.25

- T. 31 N., R. 6 E., near center sec. 12, on U. S. Highway 67, 0.5 mi. S. of Twelvemile Store, on E. side of highway at crossing of small creek near old cemetery, in top of head wall of concrete culvert; chiseled square 654.44
Twelvemile, at original site of post office, in N² sec. 14, T. 31 N., R. 6 E., 300 ft. NE. of W. W. Hinkle's farmhouse, in SW. end of SE. wing wall of concrete culvert; standard tablet stamped "P T Sta No 24 S 1926" 635.018
Reference mark, 149 ft. S. 30° W. of tablet, E. of gate, in root of 14-in. white oak tree; copper nail and washer 638.52
- T. 31 N., R. 6 E., in E² sec. 15, on U. S. Highway 67, 5.2 mi. E. of Saco, 700 ft. SW. of Chubb Store, 27 ft. NW. of highway, 25 ft. NE. of Des Arc Road, in bench on SW. side of 15-in. walnut tree; copper nail and washer 606.43
Saco, 4 mi. E. of, along Des Arc Road, 0.4 mi. W. of J. L. Whitener's house, 130 ft. W. of small bungalow, at mouth of hollow, 25 ft. N. of rd., in root on S. side of 30-in. white oak tree; copper nail and washer 593.91
Saco, 3.4 mi. E. of, along Des Arc Road, 100 ft. W. of rd. NW. near junction of Dry Creek and Twelvemile Creek, 250 ft. E. of ford at foot of hill, 7 ft. S. of rd., in root on N. side of 14-in. sycamore tree; copper nail and washer 557.88
Saco, 2.2 mi. E. of, along Des Arc Road, 15 ft. S. of rd., 10 ft. N. of front door of George Whitener's house, inside of front gate, in W. edge of concrete step; standard tablet stamped "P T Sta No 25 S 1926" 583.983
Reference mark, 450 ft. N. 40° W. of tablet, 30 ft. N. of rd., on E. side of gate, in root on SE. side of 36-in. black oak tree; copper nail and washer 557.18
Saco, 1.3 mi. E. of, along Des Arc Road, 75 ft. NE. of rd. forks, 15 ft. S. of rd., in root on NW. side of 30-in. white oak tree; copper nail and washer 527.98
Saco, 0.3 mi. E. of, along Des Arc Road, 220 ft. W. of New Home Church, 15 ft. S. of rd. at dim rd. forks, in root on N. side of 15-in. sugar maple tree; copper nail and washer 509.48
- St. Francis River, 1.2 mi. W. of Saco, at ford; surface of water October 22, 1926 at 12 a. m. 479.5
Saco, 1.2 mi. W. of post office, 0.2 mi. W. of ford across St. Francis River, 400 ft. SE. of T. J. Perry's house, 15 ft. N. of rd., near wire fence, in ledge; standard tablet stamped "P T Sta No 26 S 1926" 522.905
Reference mark, 44 ft. S. 70° E. of tablet, in root on W. side of 16-in. white oak tree; copper nail and washer 528.09
Jewett, 3.6 mi. E. of post office, along Jewett-Saco road, 10 ft. N. and 50 ft. W. of rd. forks, 150 ft. E. of Vada Berry's house, in root on SW. side of 36-in. elm tree; copper nail and washer 528.51
Jewett, 2.5 mi. E. of post office, along Jewett-Saco road, in drain at foot of N. slope of high hill, 25 ft. N. of rd. junction at turn in rd., in root on SW. side of 24-in. red oak tree; copper nail and washer 504.46
Jewett, 1.1 mi. E. of post office, along Jewett-Saco road, 60 ft. W. and 20 ft. S. of rd. junction, in fence line, in root on N. side of 28-in. walnut tree; copper nail and washer 515.35
3. FROM POINT NEAR CENTER OF QUADRANGLE SOUTH ALONG U. S. HIGHWAY 67 TO SOUTH BORDER
- Coldwater, 4.4 mi. N. of post office, along U. S. Highway 67, near foot of long hill, in top of E. head wall of concrete culvert; chiseled square 655.15
Coldwater, 3.8 mi. N. of post office, along U. S. Highway 67, on top of Pine Hill, 30 ft. S. of highway, 10 ft. E. of dim rd. S., in root on N. side of 8-in. black oak tree; copper nail and washer 846.98
Coldwater, 3 mi. N. of post office, along U. S. Highway 67, about 150 ft. SE. of house, 12 ft. NW. of highway, in NE. end of NW. head wall of concrete culvert; standard tablet stamped "P T Sta No 78 S 1926" 642.240
Reference mark, 52 ft. N. 45° E. of tablet, in root on S. side of 15-in. oak tree; copper nail and washer 641.33
Coldwater, 2.2 mi. N. of post office, along U. S. Highway 67, 150 ft. S. of cross rd., in top of W. head wall of concrete culvert; chiseled square 598.08
Coldwater, 1.1 mi. N. of post office, along U. S. Highway 67, about 0.1 mi. S. of Madison-Wayne county line, at rd. junction, in W. head wall of concrete culvert; chiseled square 539.89
Coldwater, 380 ft. N. of post office, at U. S. Highway 67 bridge across Cedar Creek, in top of W. guard wall of N. abutment; chiseled square 501.74
Coldwater, 0.7 mi. SW. of post office, along U. S. Highway 67, 90 ft. NE. of rd. junction 30 ft. N. of highway, in top of W. end of bottom step in front of Methodist church; standard tablet stamped "P T Sta No 79 S 1926" 493.178
Reference mark, 46 ft. N. 70° E. of tablet, in root on W. side of 10-in. cherry tree; copper nail and washer 495.42
Coldwater, 1.7 mi. SW. of post office, along U. S. Highway 67, about 0.3 mi. SW. of Willmore Creek, 500 ft. SW. of residence of Mr. Willmore, in W. head wall of concrete culvert; chiseled square 534.27
Coldwater, 2.4 mi. SW. of post office, along U. S. Highway 67, at summit of high ridge, 25 ft. W. of highway, in root on E. side of 12-in. red oak tree; copper nail and washer 747.54
Lodi, 1 mi. N. of post office, along U. S. Highway 67, on top of small hill, about 0.2 mi. N. of Will Carter's house, 15 ft. W. of highway, in bench on E. side of 16-in. post oak tree; copper nail and washer 554.62
Lodi, 285 ft. N. of post office, along U. S. Highway 67, 30 ft. S. and 13 ft. W. of Lodi Church, 30 ft. E. of highway, in concrete post; standard tablet stamped "P T Sta No 80 S 1926" (reported destroyed Jan. 26, 1935) 431.615
Reference mark, 260 ft. S. 30° W. of tablet, 55 ft. W. of highway, in root on E. side of 30-in. maple tree; copper nail and washer 425.40

(Continued in Greenville quadrangle; see line no. 1.)

4. FROM EAST BORDER OF QUADRANGLE SOUTHWEST TO BUCKHORN, THENCE NORTHWEST TO TWELVEMILE
(Continued from Marquand quadrangle; see line no. 1.)

- Buckhorn, 2.7 mi. NE. of post office, along Buckhorn-Marquand road, 150 ft. S. of J. W. Parker's house, 35 ft. NW. of rd., in root on E. side of 15-in. post oak tree; copper nail and washer 680.05

Buckhorn, 1.7 mi. NE. of post office, along Buckhorn-Marquand road, 680 ft. W. of creek crossing, 70 ft. S. and 15 ft. W. of rd. forks, in root on E. side of 20-in. post oak tree; copper nail and washer 638.65

Buckhorn, 0.7 mi. N. of post office, along Buckhorn-Marquand road, on E. bank of creek 40 ft. N. of ford, 140 ft. W. and 70 ft. N. of Boyd Henson's house, in root on W. side of 30-in. post oak tree; copper nail and washer 573.18

Buckhorn, 1,000 ft. W. of post office, 16 ft. N. and 33 ft. W. of front door of school-house, near fence corner, on S. side of rd., in sandstone ledge; standard tablet stamped "P T Sta No 28 S 1926" 565.789

Reference mark, 118 ft. N. 45° E. of tablet, in root on W. side of 20-in. black oak tree; copper nail and washer 565.43

Buckhorn, 1.1 mi. NW. of post office, 20 ft. N. and 30 ft. E. of rd. at private lane to Mrs. P. H. Barrett's house, in root on S. side of 18-in. red oak tree; copper nail and washer 593.62

Buckhorn, 2.3 mi. NW. of post office, 250 ft. S. of R. L. Hann's house, 80 ft. S. of old mill, 10 ft. S. and 36 ft. W. of T-rd. W., 22 ft. W. of fence corner, in concrete post; standard tablet stamped "P T Sta No 27 S 1926" 633.257

Reference mark, 55 ft. N. 60° E. of tablet, in root on N. side of 14-in. post oak tree; copper nail and washer 633.82

Buckhorn, 3.4 mi. NW. of post office, 150 ft. N. of Charles Shoemaker's house, 15 ft. E. of rd., in root on NW. side of 12-in. elm tree; copper nail and washer 693.31

Buckhorn, 4.6 mi. NW. of post office, 0.8 mi. SE. of U. S. Highway 67, at summit of divide, 33 ft. NE. of rd., in root on S. side of 20-in. red oak tree; copper nail and washer 804.68

5. SPUR LINE NEAR NORTH BORDER OF QUADRANGLE

Fredericktown, 5.7 mi. S. of, along U. S. Highway 67, thence 1.2 mi. SW. along Dry Creek road, 470 ft. NE. of steep hill, on W. side of rd., in top of W. head wall of concrete culvert; chiseled square 995.19

Fredericktown, 5.7 mi. S. of, along U. S. Highway 67, thence 2 mi. SW. along Dry Creek road, about 0.8 mi. NE. of Central School, about 0.8 mi. S. of Matthews Mountain, on top of high ridge, 15 ft. S. of rd. at dim ridge rd., in granite boulder; standard tablet stamped "2 W R B 1926" 1,114.007

Reference mark, 13 ft. E. of tablet, in root on N. side of 12-in. red oak tree; copper nail and washer 1,114.25

6. IN NORTHWEST CORNER OF QUADRANGLE (by F. C. Lentz in 1936)

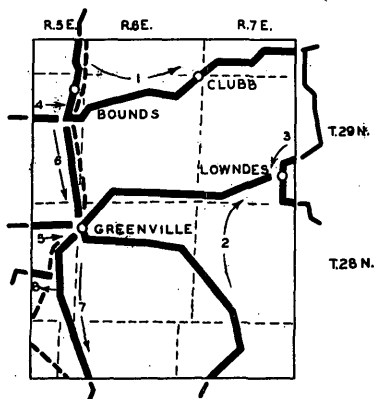
(Line continued from Knob Lick quadrangle, but last benchmark established is given in Middlebrook quadrangle; see line no. 6.)

French Mills, 3 mi. N. and 1 mi. W. of post office, at intersection of Dark Hollow and Rock Creek Hollow, 100 ft. N. of Little Rock Creek, 10 ft. S. of dim E.-W. rd., in 12-in. white oak tree; copper nail and washer 686.65

For an additional level line along U. S. Highway 67, refer to United States Coast and Geodetic Survey second-order line, Elvins to Taskee.

GREENVILLE QUADRANGLE
(Latitude 37°-37°15'; longitude 90°15'-90°30')

Wayne County



1. FROM NORTH BORDER OF QUADRANGLE SOUTH, ABOUT 5 MILES, ALONG U. S. HIGHWAY 67, THENCE EAST ALONG STATE HIGHWAY 34 TO EAST BORDER (by W. R. Broadus in 1926)
(Continued from Coldwater quadrangle; see line no. 3.)

Lodi, 1 mi. S. of post office, along U. S. Highway 67, 450 ft. SE. of T. W. Roach's house, 25 ft. E. of highway, in root on W. side of 48-in. sycamore tree; copper nail and washer 450.80

Lodi, 1.7 mi. S. of post office, along U. S. Highway 67, at summit of high ridge, 30 ft. W. of highway, in root on NE. side of 24-in. red oak tree; copper nail and washer	686.27
Bounds, 1.8 mi. N. of post office, along U. S. Highway 67, 500 ft. N. of house of L. A. Roach, at foot of S. slope of high hill, in N. end of E. head wall of concrete culvert; standard tablet stamped "P T Sta No 81 S 1926"	591.208
Reference mark, 55 ft. N. 30° W. of tablet, 25 ft. W. of highway, in root on E. side of 14-in. post oak tree; copper nail and washer	587.96
Bounds, 1 mi. N. of post office, along U. S. Highway 67, on top of small hill, 27 ft. W. of highway, 40 ft. S. of rd. W., 45 ft. SE. of SE. corner of small cemetery, in root on E. side of 15-in. black oak tree; copper nail and washer	571.23
Bounds, 200 ft. NE. of post office, along U. S. Highway 67, in top of E. head wall of concrete culvert under highway; chiseled square	502.79
Bounds, 0.9 mi. S. of post office, along U. S. Highway 67, 570 ft. N. of Montgomery Church, 120 ft. N. of T. M. Evans' house, 25 ft. W. of highway, in root on E. side of 30-in. red oak tree; copper nail and washer	464.27
Greenville, 6.5 mi. N. of, along U. S. Highway 67, 130 ft. NW. of N. junction with State Highway 34, 30 ft. N. of State Highway 34, in W. point of triangle at Claude Montgomery's filling station, standard tablet stamped "P T Sta No 73 S 1926" (Reported destroyed, Jan. 26, 1935)	454.212
Reference mark, 43 ft. W. of tablet, in top of N. head wall of concrete culvert; chiseled square	456.48
Clubb, about 6.5 mi. W. of, along State Highway 34, 0.4 mi. NE. of U. S. Highway 67, in top of SE. head wall of concrete culvert under highway; chiseled square	465.33
Clubb, 5.5 mi. W. of post office, along State Highway 34, 130 ft. E. of junction of drains, at foot of long grade, at fork of hollows, in top of W. head wall of concrete culvert; chiseled square	513.27
Clubb, 4.4 mi. W. of post office, along State Highway 34, on top of high hill, 270 ft. SW. of Ed. Meador's house, 26 ft. N. of highway, in root on S. side of 30-in. white oak tree; copper nail and washer	757.57
Clubb, 3 mi. W. of post office, along State Highway 34, 50 ft. S. and 120 ft. W. of cor. secs. 4, 5, 8, and 9, T. 29 N., R. 6 E., 160 ft. NE. of house of Tom King, in W. end of S. wing wall of concrete culvert; standard tablet stamped "P T Sta No 72 S 1926"	636.354
Reference mark, 620 ft. S. 80° W. of tablet, in top of S. head wall of concrete culvert; chiseled square	641.48
Clubb, 2.4 mi. W. of post office, along State Highway 34, on N. side of highway, 400 ft. SW. of White Hollow School, 30 ft. W. of junction of dim rd. S., in top of N. head wall of concrete culvert; chiseled square	611.73
Clubb, 1.3 mi. W. of post office, along State Highway 34, on N. side of highway, at crossing of dim N.-S. lane, in top of N. head wall of concrete culvert; chiseled square	572.48
Clubb, 250 ft. NW. of post office and store, 40 ft. N. of State Highway 34, 80 ft. E. of Clubb School, 3 ft. E. of SE. corner of well platform, in concrete post; standard tablet stamped "P T Sta No 71 S 1926"	574.983
Reference mark, 250 ft. E. of tablet, in top of N. head wall of concrete culvert under highway; chiseled square	568.24
Clubb, 1 mi. E. of post office, along State Highway 34, 300 ft. S. of Albert Graham's house, 20 ft. N. of highway at cross rd., in top of N. head wall of concrete culvert; chiseled square	568.01
Clubb, 1.5 mi. E. of post office, along State Highway 34, at E. end of concrete highway bridge over Bear Creek, in top of N. wing wall; chiseled square	571.71
Clubb, 2.6 mi. E. of post office, along State Highway 34, 45 ft. S. of highway, at summit of high hill, in root on N. side of 10-in. hickory tree; copper nail and washer	731.38
Clubb, 3.5 mi. E. of post office, along State Highway 34, in SW $\frac{1}{4}$ sec. 33, T. 30 N., R. 7 E., in front of Lawson Ward's house, in E. end of S. wing wall of concrete culvert; standard tablet stamped "P T Sta No 70 S 1926"	601.918
Reference mark, 985 ft. N. 50° E. of tablet, in top of N. head wall of concrete culvert under highway; chiseled square	599.74
Clubb, 4.4 mi. E. of post office, along State Highway 34, 0.3 mi. W. of A. A. Montgomery's house, in top of S. head wall of concrete culvert under highway; chiseled square	541.88
Clubb, 5.5 mi. E. of post office, along State Highway 34, 900 ft. SE. of Z. McGee's house, in top of S. head wall of concrete culvert under highway; chiseled square	506.43

(Continued in Zalma quadrangle; see line no. 2.)

2. FROM SOUTH BORDER OF QUADRANGLE NORTH AND WEST TO GREENVILLE, THENCE NORTHEAST TO LOWNDES (by George W. Moore in 1931)
(Continued from Poplar Bluff quadrangle; see line no. 8.)

Chaonia, 2.3 mi. N. of, in SW. angle of secondary crossroads, at top of hill, in root on E. side of 12-in. blazed oak tree; copper nail and washer	470.04
Chaonia, 2.6 mi. N. of, at Hogan Flats, 26 ft. S. and 10 ft. E. of rd. fork E., 12 ft. S. and 1 ft. E. of fence corner, in concrete post; standard tablet stamped "20 M 1931"	402.682
Reference mark, 112 ft. N. of tablet, 90 ft. E. of small wooden bridge, in root on W. side of 10-in. oak tree; copper nail and washer	402.77
Chaonia, 3.3 mi. NE. of, 110 ft. E. of rd. fork N., on E. bank of Hickory Flat Creek, on S. side of rd., in root on SE. side of 35-in. elm tree; copper nail and washer	358.24
Chaonia, 3.8 mi. NE. of, 55 ft. SW. of junction of dim rd. S., in root on S. side of 15-in. hickory tree; copper nail and washer	371.72
Chaonia, 4.6 mi. NE. of, 25 ft. N. of rd. forks, on W. side of rd., in root on SE. side of 18-in. elm tree; copper nail and washer	364.32
Chaonia, 5.3 mi. NE. of, 25 ft. E. of ford across Lost Creek, on S. side of rd., in fence corner, in root on NE. side of 27-in. oak tree; copper nail and washer	357.66

Shook, 1.5 mi. S. of, 0.4 mi. N. of ford across Lost Creek, 13 ft. N. of junction of Chaonia and Greenville-Wappapello roads, in concrete post; standard tablet stamped "21 M 1931"	399.756
Reference mark, 80 ft. SW. of tablet, 25 ft. S. and 70 ft. W. of rd. forks, in root on N. side of 10-in. oak tree; copper nail and washer	395.63
Shook, 0.6 mi. S. of, at foot of steep hill, 20 ft. E. of rd., in root on W. side of 23-in. hollow tree; copper nail and washer	383.63
Shook, 350 ft. W. of post office, 45 ft. NE. of ford across small creek, in root on SW. side of 11-in. oak tree; copper nail and washer	392.07
Shook, 1 mi. NW. of, along Greenville-Wappapello road, 70 ft. W. of rd., on N. side of private rd. W., 35 ft. W. of gate, in root on E. side of 10-in. walnut tree; copper nail and washer	411.68
Shook, 1.7 mi. NW. of, along Greenville-Wappapello road, 700 ft. SE. of Frank T. Bennett's house, 24 ft. S. and 100 ft. E. of T-rd. S., 2 ft. N. of fence, in concrete post; standard tablet stamped "22 M 1931"	443.120
Reference mark, 100 ft. W. of tablet, 12 ft. N. of T-rd. S., in root on E. side of 16-in. oak tree; copper nail and washer	444.36
Shook, 2.5 mi. NW. of, along Greenville-Wappapello road, 100 ft. N. of rd. forks, on E. side of rd., in bed of creek, in root on NW. side of 9-in. oak tree; copper nail and washer	465.78
Shook, 3.1 mi. NW. of, along Greenville-Wappapello road, 55 ft. E. of rd. fork NE., in SE. corner of triangle at rd. forks, in root on SW. side of 11-in. oak tree; copper nail and washer	485.91
Shook, 3.9 mi. NW. of, along Greenville-Wappapello road, 925 ft. SE. of ford across Lost Creek, at small drain crossing, on NE. side of rd., in root on SW. side of 22-in. oak tree; copper nail and washer	484.69
Shook, 4.5 mi. NW. of, along Greenville-Wappapello road, 6.2 mi. SE. of Greenville, 23 ft. N. and 110 ft. W. of rd. fork NE. to Hickory Grove School, in concrete post; standard tablet stamped "23 M 1931"	503.250
Reference mark, 28 ft. E. of tablet, on N. side of rd., in root on NE. side of 12-in. hickory tree; copper nail and washer	501.66
Greenville, 5.4 mi. SE. of, along Greenville-Wapapello road, 80 ft. W. of large gate, 70 ft. E. of drain, 25 ft. N. of rd., in root on S. side of 24-in. oak tree; copper nail and washer	543.10
Greenville, 4.4 mi. SE. of, along Greenville-Wappapello road, 25 ft. W. of small wooden bridge over creek, 180 ft. SW. of abandoned house, 8 ft. E. of rail fence corner, in root on NE. side of 39-in. oak tree; copper nail and washer	576.33
Greenville, 3.4 mi. SE. of courthouse, along Greenville-Wappapello road, on top of ridge, 50 ft. N. of rd. forks, 30 ft. NW. of T-rd. S., in concrete post; standard tablet stamped "24 M 1931"	690.619
Reference mark, 17 ft. NE. of tablet, in root on E. side of 9-in. oak tree; copper nail and washer	690.11
Greenville, 2.9 mi. E. of, along Greenville-Wappapello road, 20 ft. N. and 40 ft. W. of rd. at crossing of pipe line, in root on S. side of 8-in. hickory tree; copper nail and washer	532.48
Greenville, 2.1 mi. E. of, 280 ft. S. of junction of Greenville-Wappapello and Chaonia roads, in top of S. end of E. head wall of concrete culvert; chiseled square	447.64
Greenville, 1.6 mi. E. of, 160 ft. E. of A. L. Clayton's house, in top of N. head wall of concrete culvert; chiseled square	408.27
Greenville, 0.8 mi. E. of, in NW. corner of C. L. Joplin's yard, in NW. corner of large rock outcrop; U. S. E. D. aluminum tablet	385.441
Reference mark, 55 ft. W. of tablet, in top of N. end of concrete culvert under rd. to C. L. Joplin's barnyard; chiseled square	379.52
Greenville, 0.5 mi. E. of courthouse, 145 ft. E. of U. S. Highway 67 at cross rd., in top of center of S. head wall of concrete culvert under Greenville-Wappapello road; chiseled square	371.71
Greenville, at S. entrance to courthouse, in cement walk at foot of SW. corner of steps; standard tablet stamped "P T Sta No 83 S 1926"	380.931
Reference mark, 150 ft. E. of tablet, in top of center of concrete stop sign at street intersection; chiseled square	381.32
Greenville, 0.8 mi. NE. of, on Holliday Road, 100 ft. W. of ford, on S. side of rd., in root on NE. side of 22-in. sycamore tree; copper nail and washer	374.53
Greenville, 1.2 mi. NE. of, along Holliday Road, on NW. side of rd. forks, in root on N. side of 12-in. oak tree; copper nail and washer	388.80
Greenville, 2 mi. NE. of, along Holliday Road, 50 ft. E. of crossroads, at W. end of footbridge over Holliday Creek, in root on W. side of 21-in. maple tree; copper nail and washer	414.30
Greenville, 3 mi. NE. of, along Holliday Road, in top of SE. end of NE. concrete abutment of wooden bridge over Holliday Creek; chiseled square	467.65
Greenville, 3.9 mi. NE. of, along Holliday Road, 57 ft. W. of rd., in SE. corner of T. A. Allen's yard, in concrete post; standard tablet stamped "P T Sta No 94 S 1926"	525.863
Reference mark, 40 ft. N. of tablet, in root on NE. side of 21-in. oak tree; copper nail and washer	524.02
Greenville, 4.8 mi. NE. of, along Holliday Road, 50 ft. NW. of rd. at crossing of pipe line, in root on N. side of 8-in. oak tree; copper nail and washer	585.24
Greenville, 5.9 mi. NE. of, along Holliday Road, 75 ft. N. and 35 ft. W. of rd. forks, on top of ridge, in root on S. side of 25-in. oak tree; copper nail and washer	751.41
Greenville, 6.6 mi. NE. of, along Holliday Road, 60 ft. SW. of small wooden bridge over Holliday Creek, in root on NE. side of 16-in. oak tree; copper nail and washer	674.31
Greenville, 7.3 mi. NE. of, along Holliday Road, near center sec. 35, T. 29 N., R. 6 E., 140 ft. W. of rd. forks, 90 ft. E. of wooden culvert, 18 ft. S. of rd., in concrete post; standard tablet stamped "P T Sta No 93 S 1926"	622.724
Reference mark, 66 ft. W. of tablet, 60 ft. SW. of wooden bridge, in root on NE. side of 9-in. oak tree; copper nail and washer	623.82
Greenville, 8.3 mi. NE. of, along Lowndes-Greenville road, 50 ft. N. of rd. at drain crossing, on W. side of drain, in root on N. side of 19-in. oak tree; copper nail and washer	633.45
Greenville, 9.1 mi. NE. of, along Lowndes-Greenville road, 60 ft. NW. of T-rd. NW., in top of center of SW. head wall of concrete culvert; chiseled square	625.56

SPIRIT LEVELING IN MISSOURI

Lowndes, 3 mi. W. of, along Lowndes-Greenville road, 60 ft. SW. of John Crite's residence, 22 ft. N. of rd., in concrete post; standard tablet stamped "P T Sta No 92 S 1926"	621.464
Reference mark, 720 ft. W. of tablet, in top of center of S. head wall of concrete culvert; chiseled square	632.10
Lowndes, 2.2 mi. W. of, along Lowndes-Greenville road, 40 ft. N. of crossroads, at top of ridge, in root on SW. side of 22-in. oak tree; copper nail and washer	666.98
Lowndes, 2 mi. E. of, along Lowndes-Greenville road, in top of E. end of N. head wall of concrete culvert; chiseled square	614.73
Lowndes, 1.5 mi. W. of, along Lowndes-Greenville road, 30 ft. E. of rd. fork S., in root on E. side of 19-in. oak tree; copper nail and washer	606.94
Lowndes, 0.7 mi. W. of, along Lowndes-Greenville road, 40 ft. NW. of rd., at top of hill, in root on SE. side of 24-in. oak tree; copper nail and washer	598.25
Lowndes, 0.2 mi. W. of, along Lowndes-Greenville road, 90 ft. E. of junction of rd. to Hiram, in top of W. end of S. head wall of concrete culvert; chiseled square	449.78
Lowndes, 375 ft. W. of post office, 50 ft. S. of rd., at front entrance to E. E. Dunn's yard, 2 ft. W. of concrete steps, in concrete post; standard tablet stamped "P T Sta No 91 S 1926"	460.366
Reference mark, 0.2 mi. E. of tablet, 155 ft. W. of triangle at rd. forks, in top of W. end of S. head wall of concrete culvert; chiseled square	428.10

3. NEAR CENTER OF EAST BORDER OF QUADRANGLE
(Continued from Zalma quadrangle; see line no. 5.)

Lowndes, 1 mi. SE. of, 130 ft. SE. of rd. forks, on NE. side of rd., at foot of hill, in root on S. side of 11-in. walnut tree; copper nail and washer	449.81
Lowndes, 2 mi. SE. of, on top of ridge, on E. side of rd., in root on NW. side of 10-in. oak tree; copper nail and washer	641.00
Lowndes, 2.6 mi. SE. of, 130 ft. SE. of ford across small creek, 65 ft. N. of fence corner, on SW. side of rd., in root on N. side of 26-in. oak tree; copper nail and washer	583.93

(Continued in Zalma quadrangle; see line no. 5.)

4. FROM WEST BORDER OF QUADRANGLE EAST TO POINT 1.5 MILES SOUTH OF BOUNDS
(Continued from Piedmont quadrangle; see line no. 4.)

Patterson, 4 mi. E. of, along State Highway 34, 0.8 mi. E. of St. Francis River, 660 ft. NW. of crossroads, 180 ft. W. of rd. forks, in top of S. head wall of concrete culvert; chiseled square	396.08
Patterson, 4.9 mi. E. of, along State Highway 34, in NW $\frac{1}{2}$ sec. 14, T. 29 N., R. 5 E., 35 ft. S. of highway, on E. side of cross rd., in root on N. side of 24-in. oak tree; copper nail and washer	465.58

5. FROM WEST BORDER OF QUADRANGLE EAST TO GREENVILLE
(Continued from Piedmont quadrangle; see line no. 3.)

Greenville, 3 mi. NW. of, 70 ft. NW. of NW. corner of Thomas Jones' house, in root on N. side of 14-in. walnut tree; copper nail and washer	393.99
Greenville, 2 mi. NW. of, in top of SW. head wall of concrete culvert; chiseled square	385.70
Greenville, 1.2 mi. NW. of, in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, T. 28 N., R. 5 E., 50 ft. N. and 35 ft. E. of rd. corner from N. to E. at private rd. S., in root on S. side of 10-in. hickory tree; copper nail and washer	376.21
Greenville, 0.5 mi. NW. of, at NE. corner of approach to large bridge over St. Francis River, in top of retaining wall; chiseled square	364.20

6. FROM POINT ABOUT 1.5 MILES SOUTH OF BOUNDS SOUTH ALONG U. S. HIGHWAY 67 TO GREENVILLE

Silva, 0.6 mi. N. of, along U. S. Highway 67, in top of E. guardrail at NE. corner of concrete bridge over Peters Branch Creek; chiseled square	420.06
Silva, 0.2 mi. S. of, along U. S. Highway 67, in top of E. guardrail at SE. end of concrete bridge over Frazier Creek; chiseled square	400.16
Silva, 0.9 mi. S. of, along U. S. Highway 67, 270 ft. SE. of junction of rd. E., in top of guardrail at NE. corner of concrete bridge over Bounds Creek; chiseled square	399.16
Silva, 1.6 mi. S. of, along U. S. Highway 67, at top of hill, 35 ft. W. of highway, in root on E. side of 10-in. oak tree; copper nail and washer	452.44
Silva, 2.4 mi. S. of, along U. S. Highway 67, in top of N. end of W. head wall of concrete culvert; chiseled square	381.14
Greenville, 2.8 mi. NW. of, along U. S. Highway 67, 3 mi. SE. of Silva, in W. wing wall of concrete culvert; standard tablet stamped "P T Sta No 82 S 1926"	583.737
Reference mark, 230 ft. N. of tablet, at Riverside Tourist Camp, 35 ft. NE. of U. S. Highway 67, in top of concrete base of gasoline pump platform; chiseled square	390.96
Greenville, 2.1 mi. N. of, along U. S. Highway 67, 35 ft. NW. of highway at cross rd., in top of W. head wall of concrete culvert under N.-S. rd.; chiseled square	402.55
Greenville, 1.3 mi. N. of, along U. S. Highway 67, 230 ft. N. of highway, on E. side of private rd., on top of hill, in root on SW. side of 30-in. oak tree; copper nail and washer	508.25
Greenville, 0.4 mi. NE. of, along U. S. Highway 67, near foot of hill, in top of NW. head wall of concrete culvert; chiseled square	404.00

7. FROM GREENVILLE SOUTH TO SOUTH BORDER OF QUADRANGLE

- Greenville, 0.4 mi. S. of, along U.S. Highway 67, at N. concrete approach to steel bridge over St. Francis River, in top of E. parapet wall; chiseled square 382.71
- Greenville, 0.5 mi. S. of, along U.S. Highway 67, at S. abutment of S. concrete approach to steel bridge over St. Francis River, in top of E. parapet wall; chiseled square 383.47
- Greenville, 1.5 mi. S. of, along old U.S. Highway 67, 35 ft. NE. of highway at crossing of private rds., in top of E. head wall of concrete culvert; chiseled square 395.75
- Greenville, 2.5 mi. S. of, on old U.S. Highway 67, at junction of rd. to Williamsville, in N. end of concrete culvert; standard tablet stamped "P T Sta No 84 S 1926" 425.845
- Reference mark, 24 ft. NW. of tablet, in top of NW. head wall of concrete culvert; chiseled square 425.67
- Greenville, 3.6 mi. SW. of, along U.S. Highway 67, 125 ft. SW. of junction of old and new routes of highway, in top of W. head wall of concrete culvert; chiseled square 479.09
- Greenville, 4 mi. SW. of, along U.S. Highway 67, 45 ft. SE. of junction of old and new routes of highway, in top of E. head wall of concrete culvert; chiseled square 497.11
- Greenville, 4.8 mi. SW. of, in SW $\frac{1}{4}$ sec. 35, T. 28 N., R. 5 E., at top of hill, 50 ft. SE. of rd. forks, in root on W. side of twin oak tree; copper nail and washer 664.74
- Greenville, 5.3 mi. S. of, in NW. cor. sec. 1, T. 27 N., R. 6 E., in top of S. end of W. head wall of concrete culvert; chiseled square 575.14
- Greenville, 6 mi. S. of, 3.5 mi. N. of Taskee, in NE $\frac{1}{4}$ sec. 1, T. 27 N., R. 5 E., 0.9 mi. N. of John Keele's residence, in N. end of concrete culvert; standard tablet stamped "P T Sta No 85 S 1926" 539.684
- Reference mark, 21 ft. SW. of tablet, in top of N. end of W. head wall of concrete culvert; chiseled square 538.77
- Taskee, 2.6 mi. N. of, 220 ft. N. of John Keele's residence, at foot of hill, in top of N. end of E. head wall of concrete culvert; chiseled square 478.12
- Taskee, 1.9 mi. N. of, 45 ft. E. of rd. forks, in root on NW. side of 12-in. white oak tree; copper nail and washer 481.69
- Taskee, 1.1 mi. N. of, center sec. 7, T. 27 N., R. 6 E., 150 ft. N. of dim private rd. fork, 28 ft. NE. of rd., in root on S. side of 12-in. locust tree; copper nail and washer 430.15

(Continued in Poplar Bluff quadrangle; see line no. 9.)

8. FROM POINT 2.5 MILES SOUTHWEST OF GREENVILLE WEST TO WEST BORDER OF QUADRANGLE

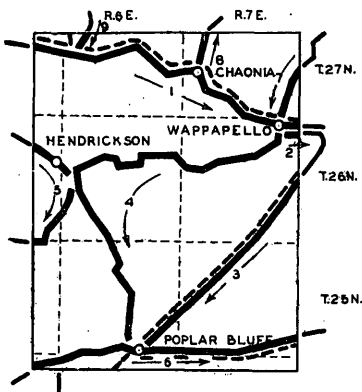
- Greenville, 3.5 mi. SW. of, 60 ft. E. of rd., in small clearing, in root on NW. side of 39-in. oak tree; copper nail and washer 484.05

(Continued in Piedmont quadrangle; see line no. 6.)

For an additional level line along U. S. Highway 67, refer to United States Coast and Geodetic Survey second-order line, Elvins to Taskee.

POPLAR BLUFF QUADRANGLE
(Latitude 36°45'-37°; longitude 90°15'-90°30')

Butler, Stoddard, and Wayne Counties



1. EAST ALONG ST. LOUIS-SAN FRANCISCO R. R. IN NORTH PART OF QUADRANGLE (by E. C. Bibbee in 1914)

(Continued from Williamsville quadrangle; see line no. 1.)

- Williamsville, 3.4 mi. E. of, along St. Louis-San Francisco R. R., 50 ft. S. of track, opposite milepost B-198, in root of black oak tree; copper nail 483.45
- Williamsville, 3.6 mi. E. of, along St. Louis-San Francisco R. R., 5.5 telegraph pole spaces E. of milepost B-198, 60 ft. E. of Stevensons' flag stop, 53 ft. N. of track, 3 ft. N. end 3 ft. E. of E. gatepost, at lane leading to old sawmill, in sandstone post set with top 14 in. underground; standard tablet stamped "Mo 465" 464.553

Williamsville, 4.2 mi. E. of, along St. Louis-San Francisco R. R., 20 ft. E. of rd. crossing, at trestle no. B-198.2, in S. end of E. tie, 1 in. above tie; drift-bolt	428.84
Taskee, 1.5 mi. W. of, along St. Louis-San Francisco R. R., in base of 4th telegraph pole W. of milepost B-197; spike	409.91
Taskee, 1.2 mi. W. of, along St. Louis-San Francisco R. R., 15 ft. N. of NE. corner of Clear Springs School, 2 ft. S. of fence; iron post stamped "Mo 404"	403.510
Taskee, 50 ft. W. of post office, 100 ft. N. of St. Louis-San Francisco R. R., in SW. corner of Morgan's yard; iron post stamped "Prim Trav Sta No 19 F 1924 Mo 394"	393.887
Taskee, 1 mi. E. of, along St. Louis-San Francisco R. R., at W. end of trestle no. B-194.7, in N. end of first bent; driftpin	378.38
Taskee, 2 mi. E. of, along St. Louis-San Francisco R. R., opposite 5th telegraph pole E. of milepost B-194, 5 ft. S. of track, in ledge of rocks; chiseled square	374.26
Ojibway, 0.5 mi. W. of, along St. Louis-San Francisco R. R., on W. end of trestle no. B-193.0, in S. end of first tie; driftbolt	366.34
Ojibway, near St. Louis-San Francisco R. R. station, 50 ft. S. of R. R., 25 ft. E. of post office, in field; iron post stamped "Prim Trav Sta No 18 F 1924 365"	364.819
Ojibway, 1.1 mi. E. of, along St. Louis-San Francisco R. R., 260 ft. W. of bridge no. B-191.4, 50 ft. S. of track, in root of 24-in. sugar maple tree; copper nail	359.19
Ojibway, 2 mi. E. of, along St. Louis-San Francisco R. R., in base of second telegraph pole E. of trestle no. B-190.4; spike	364.66
Chaonia, 0.8 mi. W. of, along St. Louis-San Francisco R. R., 200 ft. N. of bridge no. 189.2, 6 ft. E. of track, in ledge of rocks in cut; chiseled square	366.24
Chaonia, 60 ft. N. of St. Louis-San Francisco R. R., 50 ft. E. of post office, at SW. corner of Dr. Holt's yard; iron post stamped "Prim Trav Sta No 17 F 1924 Mo 363"	363.241
Chaonia, 0.8 mi. E. of, along St. Louis-San Francisco R. R., 40 ft. S. of track, opposite W. end of trestle no. B-187.5, in root of black gum tree; copper nail	358.37
Chaonia, 2 mi. E. of, along St. Louis-San Francisco R. R., on W. end of trestle no. B-186.4, in N. end of first tie; driftbolt	359.85
Chaonia, 2.9 mi. E. of, along St. Louis-San Francisco R. R., at N. side of bridge over St. Francis River, in concrete footing of E. abutment; chiseled square	354.66
Chaonia, 3.6 mi. E. of, 0.8 mi. E. of St. Louis-San Francisco R. R. bridge over St. Francis River, 60 ft. S. of R. R., 25 ft. E. of rd.; iron post stamped "Prim Trav Sta No 16 F 1924 Mo 352"	352.893
Wappapello, 1.6 mi. W. of, along St. Louis-San Francisco R. R., 400 ft. W. of bridge no. 183.5, 10 ft. S. of track, in post; spike	356.01
Wappapello, 0.7 mi. W. of, along St. Louis-San Francisco R. R., 80 ft. W. of rd. crossing, 50 ft. S. of track, in root of maple tree; copper nail	349.19
Wappapello, 200 ft. SW. of St. Louis-San Francisco R. R. station, 75 ft. S. of R. R., 75 ft. E. of loading pen, 25 ft. W. of rd., 3 ft. S. of telephone pole; iron post stamped "Prim Trav Sta No 15 F 1924 Mo 350"	350.281

(Continued in Puxico quadrangle; see line no. 1.)

2. FROM WAPPAPELLO EAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO EAST BORDER OF QUADRANGLE (by M. J. Harden in 1931)

Wappapello, 0.6 mi. E. of, along St. Louis-San Francisco R. R., at NE. corner of bridge no. B-181.4, in E. end of guardtimber; driftbolt	349.93
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(Continued in Puxico quadrangle; see line no. 2.)

3. FROM EAST BORDER OF QUADRANGLE SOUTHWEST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO POPLAR BLUFF

(Continued from Puxico quadrangle; see line no. 2.)

St. Louis-San Francisco R. R., at top of levee E. of St. Francis River	351.25
Dale, 0.9 mi. SW. of, along St. Louis-San Francisco R. R., at NW. corner of steel bridge no. A-183.6 across St. Francis River, in angle iron connecting NW. end post to N. end floor beam; end rivet	345.94
Rombauer, 1.8 mi. NE. of, along St. Louis-San Francisco R. R., at NW. corner of bridge no. A-184.2, in W. end of N. guardtimber; driftbolt	342.45
Rombauer, 1.2 mi. NE. of, along St. Louis-San Francisco R. R., at SW. corner of bridge no. A-184.8, in W. end of S. guardtimber; driftbolt	342.70
Rombauer, 1 mi. NE. of, 42 ft. N. of W. end of St. Louis-San Francisco R. R. bridge no. A-185.1, 15 ft. W. of gate, 1 ft. N. of fence, in concrete post; standard tablet stamped "2 H. 1931"	333.044
Reference mark, on NW. corner of bridge, in W. end of N. guardtimber; drift-bolt	340.23
Rombauer, at SE. corner of concrete walk in front of post office; chiseled square	334.34
Rombauer, 0.6 mi. SW. of, along St. Louis-San Francisco R. R., at NW. corner of bridge no. A-186.7, in W. end of N. guardtimber; driftbolt	332.30
Rombauer, 1.4 mi. SW. of, along St. Louis-San Francisco R. R., at NW. corner of bridge no. A-187.5, in W. end of N. guardtimber; driftbolt	332.53
Sawyer, 0.5 mi. E. of, 430 ft. E. of St. Louis-San Francisco R. R. bridge no. 188.4, 45 ft. N. of dim private rd. crossing, 1 ft. W. of gate post, 1 ft. inside of right-of-way fence, in concrete post; standard tablet stamped "3 H 1931"	325.364
Reference mark, at SE. corner of bridge, in E. end of S. guardtimber; drift-bolt	328.17
Sawyer, along St. Louis-San Francisco R. R., 375 ft. W. of signpost, 50 ft. S. of dim rd. crossing, in N. side of W. gatepost; spike	326.19
Sawyer, 0.5 mi. W. of, along St. Louis-San Francisco R. R., at NE. corner of bridge no. 189.3, in E. end of N. guardtimber; driftbolt	327.26
Poplar Bluff, 4.3 mi. NE. of, along St. Louis-San Francisco R. R., 70 ft. W. of rd. crossing, 30 ft. N. of track, in S. side of telephone pole; spike	327.36

Poplar Bluff, 3.6 mi. NE. of, along St. Louis-San Francisco R. R., at NW. corner of bridge no. A-191.3, in W. end of N. guardtimber; driftbolt	334.81
Poplar Bluff, 2.5 mi. NE. of, 240 ft. S. and 45 ft. W. of St. Louis-San Francisco R. R. at rd. crossing, 45 ft. W. of T-rd. E. near E. edge of levee, in concrete post; standard tablet stamped "4 H 1931"	335.081
Reference mark, on top of levee, one pole W. of milesign A-192, on N. side of track, in S. side of telephone pole; spike	343.73
Poplar Bluff, 2 mi. NE. of, along St. Louis-San Francisco R. R., at SE. corner of bridge no. A-192.8, in E. end of S. guardtimber; second driftbolt	341.71
Poplar Bluff, 1.3 mi. NE. of, along St. Louis-San Francisco R. R., 50 ft. W. of R. R. at U. S. Highway 60, in S. side of first transmission line pole W. of track; spike	336.35
Poplar Bluff, 0.6 mi. NE. of courthouse, on extreme NE. corner of St. Louis-San Francisco R. R. bridge, in E. end of N. guardtimber; driftbolt	341.97
Poplar Bluff, at S. entrance to Butler County courthouse, on top of guard of lower step, in limestone block; standard tablet stamped "9 M 1931"	363.559

4. FROM WAPPAPELLO WEST TO POINT NEAR HENDRICKSON THENCE SOUTHEAST TO POPLAR BLUFF

Wappapello, 0.6 mi. S. of, along rd. to Poplar Bluff, at SE. corner of steel bridge across St. Francis River, on top of E. end of S. floor beam; painted square	356.91
Wappapello, 1 mi. S. of, along rd. to Poplar Bluff, 35 ft. N. and 55 ft. W. of rd. corner, in root of 18-in. black oak tree; copper nail and washer	470.82
Wappapello, 1.7 mi. SW. of, along rd. to Poplar Bluff, 35 ft. S. and 15 ft. E. of T-rd. W., in root of 16-in. white oak tree; copper nail and washer	478.53
T. 26 N., R. 7 E., SE $\frac{1}{4}$ sec. 10, 65 ft. S. and 70 ft. W. of rd. corner, in root of 9-in. black oak tree; copper nail and washer	487.64
Little Brushy School, 1 mi. E. and 0.2 mi. N. of, 22 ft. W. of T-rd. E., 3 ft. inside of fence corner, in concrete post; standard tablet stamped "5 H 1931"	502.938
Reference mark, 14 ft. W. of tablet, in root of 10-in. white oak tree; copper nail and washer	501.47
T. 26 N., R. 7 E., NE $\frac{1}{4}$ sec. 16, 400 ft. W. of Little Brushy School, 60 ft. W. of T-rd. N., on S. side of rd., in root of 6-in. white oak tree; copper nail and washer	489.16
T. 26 N., R. 7 E., near quarter cor. between secs. 16 and 17, 65 ft. S. and 50 ft. W. of rd. forks, in root of 10-in. black oak tree; copper nail and washer	534.13
T. 26 N., R. 7 E., secs. 17, 18, 19, and 20, 28 ft. E. of T-rd. W. at cor. of, 3 ft. inside of fence corner, in concrete post; standard tablet stamped "6 H 1931"	492.637
Reference mark, 11 ft. W. of tablet, in root of 12-in. white oak tree; copper nail and washer	494.03
T. 26 N., R. 7 E., near quarter cor. between secs. 18 and 19, 32 ft. S. and 8 ft. E. of rd. corner, in root of 27-in. black oak tree; copper nail and washer	527.74
T. 26 N., R. 7 E., near center $\frac{1}{2}$ sec. 18, on S. side of rd., 80 ft. N. of house, near curve in rd., in root of 30-in. black oak tree; copper nail and washer	527.83
T. 26 N., R. 6 E., at quarter cor. between secs. 13 and 18, 36 ft. W. of T-rd. E., in root of 6-in. white oak tree; copper nail and washer	491.30
Smith Farm, 0.3 mi. N. of, 15 ft. E. of dim rd. forks, in root of 30-in. white oak tree; copper nail and washer	539.04
Bluewater School, 2.4 mi. E. of, 64 ft. N. and 20 ft. E. of T-rd. W., in root of 26-in. white oak tree; copper nail and washer	394.82
Bluewater School, 1.4 mi. E. of, 375 ft. E. of house, 18 ft. N. and 15 ft. E. of rd. forks, 25 ft. NE. of culvert, in concrete post; standard tablet stamped "7 H 1931"	423.301
Reference mark, 11 ft. E. of tablet, in root of 16-in. black oak tree; copper nail and washer	424.20
Bluewater School, 0.8 mi. E. of, 30 ft. N. of dim rd. forks, 30 ft. N. and 22 ft. E. of culvert, in root of 14-in. white oak tree; copper nail and washer	442.08
Bluewater School, 125 ft. E. of SE. corner of, 25 ft. N. of rd., in root of 30-in. black oak tree; copper nail and washer	551.77
T. 26 N., R. 6 E., at quarter cor. between secs. 15 and 16, 25 ft. N. and 27 ft. E. of T-rd. N., in concrete post; standard tablet stamped "8 H 1931"	579.678
Reference mark, 53 ft. E. of tablet, in root of 6-in. hickory tree; copper nail and washer	583.73
Bluewater School, 1.8 mi. W. of, at bottom of steep hill, in SW. corner of wooden culvert; copper nail and washer	493.56
Bluewater School, 2.4 mi. W. of, 15 ft. N. and 65 ft. E. of dim T-rd. N., 25 ft. W. of drain, in root of 10-in. white oak tree; copper nail and washer	447.48
Bluewater School, 3.2 mi. W. of, at top of hill, on N. side of rd., directly opposite frame house of Jim Moxly, in root of 10-in. black oak tree; copper nail and washer	453.79
Hendrickson, 2 mi. SE. of, 10 ft. S. and 50 ft. E. of T-rd. N., in root of 10-in. hard maple tree; copper nail and washer	366.90
Hendrickson, 1.5 mi. SE. of, 220 ft. N. of T-rd. E., in top at center of E. guard wall of concrete culvert; chiseled square	370.14
Hendrickson, 0.8 mi. SE. of, at top of ridge, 20 ft. W. of rd., in root of 8-in. hickory tree; copper nail and washer	439.69
Hendrickson, 180 ft. W. of W. end of Missouri Pacific R. R. depot, 25 ft. E. of rd., 3 ft. SE. of fence post at NW. corner of depot yard, in concrete post; standard tablet stamped "2 M 1931"	370.763
Wilby, 1.2 mi. N. of, 175 ft. S. of house on E. side of rd., in top of abutment, at SW. corner of concrete culvert; chiseled square	363.03
Wilby, 650 ft. N. of garage, 105 ft. N. of U. S. Highway 67 at rd. junction, 5 ft. W. of fence corner, in concrete post; standard tablet stamped "9 H 1931"	361.274
Reference mark, in NW. corner of concrete culvert at Wilby garage; chiseled square	363.02
Wilby, 1 mi. SE. of, on top of ridge, 50 ft. N. and 20 ft. E. of T-rd. N., in root of 18-in. white oak tree; copper nail and washer	419.50
Oak Hill School, 0.4 mi. N. of, 15 ft. N. and 20 ft. E. of dim T-rd. E., in root of forked elm tree; copper nail and washer	360.95
Oak Hill School, 500 ft. SW. of, 25 ft. W. of rd. forks, in root of 8-in. black oak tree; copper nail and washer	448.82

Oak Hill School, 0.5 mi. S. of, at top of ridge, on W. side of rd., in root of 10-in. black oak tree; copper nail and washer	475.40
Hilliard, 1.1 mi. N. of, 300 ft. W. of house, in top of base of S. guardrail to concrete bridge across small stream; chiseled square	349.64
Hilliard, 22 ft. E. of J. M. Sliger's grocery store, 42 ft. W. and 30 ft. S. of Missouri Pacific R. R. et rd. crossing, in concrete post; standard tablet stamped "10 H 1931"	355.216
Reference mark, 6 ft. N. and 7 ft. W. of tablet, in root of 26-in. boxelder tree; copper nail and washer	355.24
Hilliard, 0.4 mi. W. of, in SW. corner of anchorplate on top of SW. pier of steel bridge across Black River, bolt head	356.02
Hilliard, 1 mi. S. of, 60 ft. N. and 20 ft. W. of rd. forks, 20 ft. E. of gate, in root of 18-in. hickory tree; copper nail and washer	350.74
Marble Hill School, about 1 mi. NW. of, near quarter cor. between secs. 21 and 22, T. 25 N., R. 6 E., at rd. corner, in root of triple elm tree; copper nail and washer	345.85
Marble Hill School, 0.2 mi. N. of, near center S $\frac{1}{2}$ sec. 22, T. 25 N., R. 6 E., 45 ft. E. and 15 ft. N. of T-rd. S., in concrete post; standard tablet stamped "11 H 1931"	390.577
Reference mark, 60 ft. S. of tablet, 35 ft. S. and 18 ft. E. of T-rd. S., in root of 20-in. wild cherry tree; copper nail and washer	394.64
Poplar Bluff, 0.8 mi. N. of N. city limits of, in center of S $\frac{1}{2}$ sec. 27, T. 25 N., R. 6 E., 45 ft. N. and 20 ft. W. of T-rd. E., in root of 8-in. white oak tree; copper nail and washer	395.88
Poplar Bluff, in N. part of city, near center sec. 34, T. 25 N., R. 6 E., 75 ft. N. and 25 ft. E. of crossroads, 10 ft. SW. of small restaurant, in root of 14-in. black oak tree; copper nail and washer	428.89
Poplar Bluff, at intersection of U. S. Highway 67 with main street, in NW. corner of triangular lot of National Refining Company's filling station, in base of station floodlight pole; chiseled square	401.84

5. FROM WEST BORDER OF QUADRANGLE SOUTHEAST ALONG MISSOURI PACIFIC R. R. TO HENDRICKSON THENCE SOUTH AND WEST TO WEST BORDER (by George W. Moore in 1931)
(Continued from Williamsville quadrangle; see line no. 3.)

Keeners, 1 mi. SE. of, along Missouri Pacific R. R., in top of W. corner of concrete base to semaphore signal no. 1502-D; chiseled square	378.40
Keeners, 1.8 mi. SE. of, along Missouri Pacific R. R., 0.7 mi. NW. of Hendricksen, 350 ft. SE. of SE. end of wooden trestle no. 168, in top of E. corner of concrete base to semaphore signal; chiseled square	374.82
Hendricksen, 180 ft. W. of W. end of Missouri Pacific R. R. depot, 25 ft. E. of rd., 3 ft. SE. of fence post at NW. corner of depot yard, in concrete post; standard tablet stamped "2 M 1931"	370.763
Reference mark, at W. edge of rd., 9 ft. N. of N. rail of main track of Missouri Pacific R. R., in top of NE. corner of concrete base of stop signal; chiseled square	370.85
Hendricksen, 0.5 mi. S. of, 50 ft. E. of rd. fork S., in top of SE. end of SE. concrete wing wall of iron bridge over Black River; chiseled square	364.24
Hendricksen, 1.3 mi. S. of, 25 ft. N. and 30 ft. W. of rd. corner, in root on E. side of 16-in. oak tree; copper nail and washer	415.24
Hendricksen, 2.3 mi. S. of, 40 ft. E. of T-rd. E., at N. edge of rd., in root on SW. side of 9-in. walnut tree; copper nail and washer	380.93
Hendricksen, 2.8 mi. S. of, 10 ft. N. and 20 ft. W. of T-rd. E., in root on S. side of 10-in. oak tree; copper nail and washer	364.52
Hendricksen, 3.7 mi. S. of, 35 ft. S. and 40 ft. W. of rd. fork W., 12 ft. S. of fence corner, in concrete post; standard tablet stamped "3 M 1931"	404.962
Reference mark, 35 ft. N. and 14 ft. E. of tablet, in triangle of rd. forks, in root on N. side of 24-in. oak tree; copper nail and washer	404.22
Hendricksen, 3.7 mi. S. and 0.9 mi. W. of, 750 ft. E. of Harwell's house, 60 ft. N. of rd., in S. side of lone 11-in. persimmon tree; spike	431.06

(Continued in Williamsville quadrangle; see line no. 3.)

6. EAST ALONG SOUTH BORDER OF QUADRANGLE
(Continued from Harviell quadrangle; see line no. 1.)

T. 24 N., R. 5 E., SW $\frac{1}{4}$ sec. 1, directly S. of J. M. Well's house, at S. edge of rd., 35 ft. W. of creek, in root on N. side of 14-in. elm tree; copper nail and washer	369.10
T. 24 N., R. 6 E., 0.3 mi. N. of T-rd. E. at SW. cor. sec. 6, 26 ft. E. of T-rd. W., 2 ft. E. of fence, in concrete post; standard tablet stamped "7 M 1931"	465.025
Reference mark, 200 ft. S. of tablet, 90 ft. N. and 25 ft. E. of T-rd. E., in root on SE. side of 8-in. hickory tree; copper nail and washer	460.27
T. 24 N., R. 6 E., near center SE $\frac{1}{4}$ sec. 6, 23 ft. N. and 100 ft. W. of T-rd. N., 77 ft. W. of fence corner, in root on E. side of 24-in. oak tree; copper nail and washer	438.74
T. 24 N., R. 6 E., NE $\frac{1}{4}$ sec. 5, 30 ft. SE. of main rd. fork S., in root on W. side of 22-in. oak tree; copper nail and washer	371.99
T. 24 N., R. 6 E., center of NW $\frac{1}{4}$ sec. 4, 77 ft. W. and 28 ft. N. of U. S. Highway 60 at rd. W., 24 ft. W. of fence corner, in concrete post; standard tablet stamped "8 M 1931"	345.409
Reference mark, 75 ft. NE. of tablet, 120 ft. W. and 35 ft. S. of rd. fork W., in root on W. side of 28-in. oak tree; copper nail and washer	340.61
Poplar Bluff, at W. edge of, on N. side of U. S. Highway 60, in top of W. end of N. head wall of concrete culvert; chiseled square	342.22
Poplar Bluff, at junction of U. S. Highways 60 and 67, at SW. corner of Ninth and Maude Streets, in N. edge of sidewalk to W.; chiseled square	400.56
Poplar Bluff, at S. entrance to Butler County courthouse, on top of guard of lower step, in limestone block; standard tablet stamped "9 M 1931"	363.559
Reference mark, 84 ft. E. of tablet, in SE. corner of courthouse yard in limestone block on top of guard; chiseled square	364.82

Black River, center at N. side of bridge over, in top of wooden guardrail;
copper nail and washer 343.01
Poplar Bluff, 1.2 mi. NE. of, 300 ft. NE. of NE. end of St. Louis-San Francisco R. R.
wooden trestle, at NW. edge of U. S. Highway 60, in top of NE. end of NW. head
wall of concrete culvert; chiseled square (U. S. C. E. B. M.) 339.15

Note. - Elevations for balance of this line have preliminary adjustment.

Tps. 24 and 25 N., Rs. 6 and 7 E., about 0.1 mi. W. of cor. of, along U. S. Highway 60,
712 ft. W. of bridge over Levee ditch, on floor at corner of S. end of large
culvert; chiseled square 332.58
Tps. 24 and 25 N., Rs. 6 and 7 E., near cor. of, on U. S. Highway 60, at top of SW.
corner of N. parapet wall of W. abutment of bridge no. G-276 over Levee ditch;
chiseled square (U. S. C. E. B. M.) 342.03
T. 24 N., R. 7 E., near N. quarter cor. sec. 6, 20 ft. S. of U. S. Highway 60, in
top at N. end of E. head wall of concrete culvert under rd. S.; chiseled
square (U. S. C. E. B. M.) 331.10
T. 24 N., R. 7 E., secs. 5 and 6, 55 ft. W. and 37 ft. S. of U. S. Highway 60 at rd.
S. at N. cor. of, 30 ft. W. and 1 ft. S. of fence corner, 85 ft. W. of gasoline
pump, in concrete post; standard tablet stamped "10 M 1931" 328.385
Reference mark, in SE. angle of T-rd. S., in top of NW. corner of concrete foundation
for gasoline pump; chiseled square 329.54
T. 24 N., R. 7 E., in NE $\frac{1}{4}$ sec. 5, 840 ft. W. of T-rd. N., in top of E. end of S.
head wall of concrete culvert under U. S. Highway 60; chiseled square (U. S.
C. E. B. M.) 325.73
T. 24 N., R. 7 E., NE. cor. sec. 5, 390 ft. E. of T-rd. N., in top of N. end of
W. head wall of concrete culvert under T-rd. S.; chiseled square 325.35
Tps. 24 and 25 N., R. 7 E., near quarter cor. between secs. 4 and 33, at bend in U. S.
Highway 60 from W. to NE., 75 ft. W. of concrete culvert, 6 ft. S. of pavement;
iron post stamped "U S E D P B M 1 H O 6" 322.895
T. 25 N., R. 7 E., 0.2 mi. N. of S. cor. secs. 33 and 34, in SE. corner of N. parapet
wall of E. abutment of U. S. Highway 60 bridge no. G-277 over ditch no. 1;
chiseled square 323.32
Junland School, near quarter cor. between secs. 34 and 35, T. 25 N., R. 7 E., 121 ft.
SW. of SW. corner of school, 37 ft. N. and 50 ft. E. of crossroads, in concrete
post; standard tablet stamped "11 M 1931" 321.642
Reference mark, about 200 ft. E. of Junland flagstop, 0.2 mi. W. of crossroads, in
NE. corner of S. parapet wall of E. abutment of U. S. Highway 60 bridge no.
G-278 over ditch no. 10; chiseled square (U. S. C. E. B. M.) 328.08
T. 25 N., R. 7 E., in S. part of NE $\frac{1}{4}$ sec. 35, 70 ft. N. and 55 ft. E. of T-rd. S.
to Barron flagstop, in root on N. side of 14-in. oak tree; copper nail and
washer 322.06
T. 25 N., R. 7 E., about 0.1 mi. N. of quarter cor. between secs. 35 and 36, in top
of S. parapet wall of E. abutment of U. S. Highway bridge no. G-279 over ditch
no. 12; chiseled square (U. S. C. E. B. M.) 324.90

(Continued in Puxico quadrangle; see line no. 5.)

7. FROM EAST BORDER OF QUADRANGLE SOUTHWEST TO WAPPAPELLO (Continued from Puxico quadrangle; see line no. 3.)

Union School, 0.9 mi. S. of, 25 ft. S. of ford over small creek, 35 ft. E. of rd.
forks, at E. edge of rd., in root on E. side of 28-in. maple tree; copper
nail and washer 383.69
Wappapello, 1.8 mi. N. of, 1.8 mi. S. of Union School, 17 ft. SW. of farm rd. W., at
sharp turn in rd. from NE. to S., in root on NE. side of 6-in. hickory tree;
copper nail and washer 354.77
Wappapello, 0.9 mi. NE. of, 10 ft. N. and 10 ft. E. of turn in rd. from E. to S., 7 ft.
S. of fence, in root on SE. side of 17-in. wild cherry tree; copper nail and
washer 346.08

8. FROM CHAONIA NORTH TO NORTH BORDER OF QUADRANGLE

Chaonia, 0.4 mi. S. of, 60 ft. S. of SE. edge of wooden bridge over St. Francis River,
in root on NW. side of 21-in. sycamore tree with water gage attached; copper
nail and washer (U. S. C. E. B. M.) 361.06
Chaonia, W. of, across St. Francis River, 50 ft. S. of wooden bridge over creek, at
E. edge of rd., in fence corner, in root on NW. side of 26-in. black oak tree;
copper nail and washer 355.05
Chaonia, 1.9 mi. N. of, 70 ft. N. of ford across small creek, at W. edge of rd.,
in root on SE. side of 22-in. elm tree; copper nail and washer 371.19

(Continued in Greenville quadrangle; see line no. 2.)

9. IN NORTHWEST CORNER OF QUADRANGLE (Continued from Greenville quadrangle; see line no. 7.)

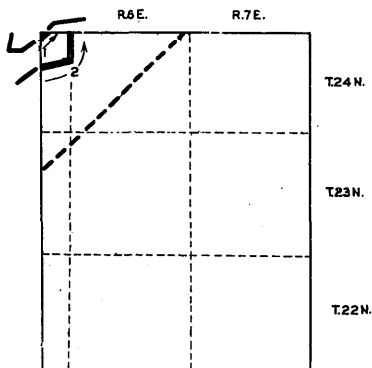
Taskee Station, 0.5 mi. N. of, 175 ft. N. and 35 ft. E. of rd. forks, in root on
NW. side of 22-in. sycamore tree; copper nail and washer 398.71

For an additional level line along St. Louis-San Francisco R. R., in southeast quarter
of quadrangle, refer to United States Coast and Geodetic Survey first-order line, Cape
Girardeau, Mo. to Hoxie, Ark. For additional lines along St. Louis-San Francisco R. R.
in north part, Missouri Pacific R. R. in southeast corner, and U. S. Highway 67 in
northwest corner of quadrangle, refer to United States Coast and Geodetic Survey
second-order lines; Mingo to Hunter, Sikeston to Poplar Bluff, and Elvins to Taskee.

SPIRIT LEVELING IN MISSOURI

HARVIELL QUADRANGLE
(Latitude $36^{\circ}30' - 36^{\circ}45'$; longitude $90^{\circ}15' - 90^{\circ}30'$)

Butler County



1. IN NORTHWEST CORNER OF QUADRANGLE (by George W. Moore in 1931)
(Continued from Acorn quadrangle; see line no. 2.)

T. 24 N., R. 5 E., near center sec. 11, 60 ft. E. of N.-S. fence, 20 ft. N. of rd.,
in root on SW. side of 20-in. oak tree; copper nail and washer Feet
338.03

(Continued in Poplar Bluff quadrangle; see line no. 6.)

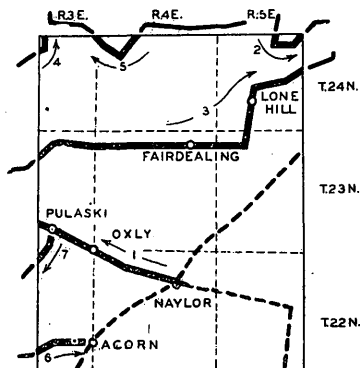
2. IN NORTHWEST CORNER OF QUADRANGLE (by B. D. Harsha in 1934)
(Continued from Acorn quadrangle; see line no. 3.)

Lone Hill, 0.5 mi. E. and 2.8 mi. NE. of, 26 ft. N. and 22 ft. E. of E. end of steel
girder span bridge over Cane Creek,, 26 ft. N. and 20 ft. W. of T-rd. N., in 327.37
root on W. side of 12-in. elm tree; copper nail and washer
Poplar Bluff, 7.2 mi. SW. of, on County Route M, 35 ft. N. and 15 ft. W. of highway
at rd. S. to Lone Hill, in root on E. side of 12-in. oak tree; copper nail and 360.75
washer
Poplar Bluff, 6.3 mi. SW. of, on County Route M, 0.2 mi. E. of Twin Springs School,
15 ft. S. of rd., in root on E. side of 30-in. oak tree; copper nail and 458.90
washer
Poplar Bluff, 5.4 mi. SW. of, on County Route M, 21 ft. S. and 40 ft. E. of crossroads,
in top of W. end of S. concrete head wall of double concrete box culvert; chisel-
ed square 372.92

For an additional level line along St. Louis-San Francisco R. R., refer to United
States Coast and Geodetic Survey first-order line, Cape Girardeau, Mo. to Hoxie, Ark.

ACORN QUADRANGLE
(Latitude $36^{\circ}30' - 36^{\circ}45'$; longitude $90^{\circ}30' - 90^{\circ}45'$)

Butler and Ripley Counties



1. FROM NAYLOR WEST ALONG MISSOURI PACIFIC R. R. TO WEST BORDER OF QUADRANGLE
(second-order line by H. P. Jones in 1933-34)

	Feet
U.S.C. & G.S. B.M. designated "V 14 1932"	304.146
Naylor, 0.9 mi. W. of, along Missouri Pacific R.R., in NW. corner of wooden trestle no. 1092; copper nail and washer	301.06
Naylor, 1.4 mi. W. of, along Missouri Pacific R.R., in NE. corner of bridge no. 1093 over Little Black River; copper nail and washer	305.36
Naylor, 2.4 mi. W. of, along Missouri Pacific R.R., 2.5 mi. E. of Oxly, 67 ft. N. and 11 ft. W. of rd. crossing, in concrete post; standard tablet stamped "4 J 1934"	310.777
Oxly, 1.4 mi. E. of, along Missouri Pacific R.R., 140 ft. W. of rd. crossing, in NE. corner of wooden trestle no. 1099; copper nail and washer	360.18
Oxly, 1.1 mi. E. of, along Missouri Pacific R.R., in NE. corner of wooden trestle no. 1100; copper nail and washer	337.22
Oxly, 45 ft. N. end 9 ft. E. from NE. corner of Missouri Pacific R.R. sta., 35 ft. S. and 31 ft. E. from T street N., in top and on SE. corner of concrete well curb; standard tablet stamped "3 J 1934 320"	319.675
Oxly, 1.2 mi. W. of, along Missouri Pacific R.R., 15 ft. S. and 50 ft. E. from rd. crossing, in top of large flint rock; chiseled square	341.68
Pulaski, 2.2 mi. E. of, along Missouri Pacific R.R., 2.2 mi. W. of Oxly, 130 ft. W. of fourth pole W. of telegraph pole marked "293/10", 65 ft. N. of track, 12 ft. N. of N. right-of-way fence, in root on S. side of 30-in. black oak tree; copper nail and washer	424.70
Pulaski, 0.9 mi. E. of, along Missouri Pacific R.R., in SW. corner of wooden trestle no. 1114; copper nail	404.20
Pulaski, 42 ft. N. and 36 ft. E. from rd. crossing Missouri Pacific R.R., E. of fence corner, in concrete post; standard tablet stamped "2 J 1934 433"	433.122

(Continued in Doniphan quadrangle; see line no. 1.)

2. SOUTH AND EAST ACROSS NORTHEAST CORNER OF QUADRANGLE (by George W. Moore in 1931)
(Continued from Williamsville quadrangle; see line no. 3.)

Bay Springs Church, in yard of, 75 ft. N. and 15 ft. E. of T-rd. N., 50 ft. W. of SW. corner of church, in root on E. side of 22-in. oak tree; copper nail and washer	516.87
Bay Springs Church, 0.9 mi. E. of, on NE. side of rd. at slight curve from NW. to SE., in top of NW. end of NE. head wall of concrete culvert; chiseled square	401.33
T. 24 N., R. 5 E., in SE $\frac{1}{4}$ sec. 10, 220 ft. N. of rd. forks, 28 ft. NW. of bend in rd. from E. to S., on E. bank of Cane Creek, opposite ford, in concrete post; standard tablet stamped "6 M 1931"	331.54C
Reference mark, 142 ft. E. of tablet, on N. side of rd., in root on SE. side of 20-in. maple tree; copper nail and washer	333.0C

(Continued in Harviell quadrangle; see line no. 1.)

3. EAST ALONG STATE HIGHWAY 14 (FORMERLY HIGHWAY 42) IN NORTH PART OF QUADRANGLE,
THENCE NORTHEAST TO EAST BORDER (by B. D. Harsha in 1934)
(Continued from Doniphan quadrangle; see line no. 6.)

Doniphan, 5 mi. E. of, along State Highway 14, 30 ft. S. and 24 ft. W. of highway at rd. S., 2 ft. S. and 8 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 62 B 1931"	476.561
Reference mark, 5 ft. N. and 35 ft. E. of tablet, in root on NW. side of 30-in. oak tree; copper nail and washer	475.11
Doniphan, 5.2 mi. E. of, along State Highway 14, top of second rivet head in outside course of rivets at N. end of W. span of steel girder bridge no. G-286 over creek; painted square	433.64
Doniphan, 6.2 mi. E. of, along State Highway 14, 12 ft. S. and 84 ft. W. of NW. corner of Bill Penrod's filling station, 30 ft. S. of highway, in root on S. side of 12-in. oak tree; copper nail and washer	542.92
Doniphan, 7.1 mi. E. of, along State Highway 14, 150 ft. E. of junction of trail N., 20 ft. N. and 42 ft. E. of highway at fence lines, in root on SW. side of 14-in. oak tree; copper nail and washer	542.30
Flatwoods, 1 mi. S. and 0.2 mi. W. of post office, 28 ft. S. and 31 ft. E. of State Highway 14 at cross rd., 14 ft. E. and 2 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 63 B 1931"	513.450
Reference mark, 60 ft. N. and 55 ft. E. of tablet, in root on SE. side of 14-in. oak tree; copper nail and washer	517.05
Fairdealing, 3.9 mi. W. of, along State Highway 14, in S. end of E. concrete abutment of steel girder bridge no. 287 over Cypress Creek; chiseled square	445.17
Fairdealing, 3.8 mi. W. of, along State Highway 14, at Ozark Store, 65 ft. S. and 50 ft. W. of highway at cross rd., in root on NW. side of 12-in. oak tree; copper nail and washer	503.98
Fairdealing, 1.8 mi. W. of, along State Highway 14, 34 ft. S. and 32 ft. E. of highway at cross rd., 12 ft. E. and 2 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 64 B 1931"	482.442
Reference mark, 20 ft. N. and 20 ft. W. of tablet, in top of W. end of concrete head wall; chiseled square	483.62
Fairdealing, 0.7 mi. W. of, along State Highway 14, 36 ft. S. and 7 ft. W. of highway at rd. N., in root on NE. side of 12-in. hickory tree; copper nail and washer	464.70
Fairdealing, 0.4 mi. W. of, along State Highway 14, in top of NE. corner of N. head wall of concrete culvert; painted square	437.45
Fairdealing, 18 ft. S. and 70 ft. W. of State Highway 14 at crossing of Old Military Road, in root on N. side of 20-in. oak tree; copper nail and washer	463.08
Fairdealing, at E. limits of, 32 ft. S. and 14 ft. W. of State Highway 14 at cross rd. S. to Naylor, in root on NW. side of 24-in. oak tree; copper nail and washer	449.33
Fairdealing, 0.9 mi. E. of, along State Highway 14, in top of E. end of N. head wall of concrete culvert; painted square	441.71
Fairdealing, 1.5 mi. E. of, along State Highway 14, about 400 ft. E. of Stroud's general store, 27 ft. S. and 25 ft. W. of highway at Butler-Ripley county line, 4 ft. W. and 2 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 65 B 1931"	436.138

Reference mark, 35 ft. S. and 105 ft. E. of tablet, in root on NW. side of 10-in. oak tree; copper nail and washer	434.16
Fairdealings, 2.5 mi. E. of, along State Highway 14, in top of S. end of E. abutment of steel girder bridge no. J-148 over Little Black River; chiseled square	325.18
Fairdealings, 3.6 mi. E. of, along State Highway 14, 24 ft. S. and 67 ft. W. of highway at rd. N., in root on E. side of 24-in. oak tree; copper nail and washer	411.65
Fairdealings, 4.6 mi. E. of, along State Highway 14, 1 mi. W. of junction of U. S. Highway 67, 30 ft. S. and 31 ft. W. of highway at cross rd., 10 ft. W. and 2 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 66 B 1931"	379.801
Reference mark, 6 ft. S. and 21 ft. W. of tablet, in root on NE. side of 30-in. oak tree; copper nail and washer	379.39
Lone Hill, 1.5 mi. S. of, along County Route F, 150 ft. S. and 20 ft. E. of highway at cross rd., in root on W. side of 20-in. oak tree; copper nail and washer	407.87
Lone Hill, 0.5 mi. S. of, along County Route F, 11 ft. N. and 15 ft. W. of highway at cross rd., in top at center of N. head wall of concrete culvert; iron pin	427.67
Lone Hill, 13 ft. S. and 55 ft. E. of crossroads, in root on N. side of 40-in. oak tree; copper nail and washer	455.27
Lone Hill, 0.5 mi. E. of, 33 ft. N. and 25 ft. E. of T-rd. N., in concrete post; standard tablet stamped "1 K 1934"	450.067
Lone Hill, 0.5 mi. E. and 0.1 mi. N. of, 21 ft. E. of rd., 18 ft. N. and 5 ft. W. of fence corner, in concrete post; standard U. S. C. & G. S. reference mark tablet stamped "Berry 1930 No. 1"	465.907
Reference mark, 200 ft. N. of tablet, 15 ft. E. of rd. corner, in root on W. side of 36-in. oak tree; copper nail and washer	468.16
Lone Hill, 0.5 mi. E. and 0.9 mi. NE. of, near R. Cox's residence, 7 ft. S. of rd., in root on N. side of 30-in. oak tree; copper nail and washer	415.49
Lone Hill, 0.5 mi. E. and 1.9 mi. NE. of, 18 ft. N. and 10 ft. W. of turn in rd. from N. to E., at abrupt drop, in root on E. side of 30-in. oak tree; copper nail and washer	385.45

(Continued in Harviell quadrangle; see line no. 2.)

4. IN NORTHWEST CORNER OF QUADRANGLE (by B. D. Harsha in 1934)
(Continued from Doniphan quadrangle; see line no. 5.)

T. 24 N., R. 3 E., near cor. secs. 9, 10, 15, and 16, 40 ft. N. of rd., in root on SE. side of 10-in. oak tree; copper nail and washer	432.18
T. 24 N., R. 3 E., near quarter cor. between secs. 9 and 10, at ford across Little Black River, on N. bank of river, 50 ft. E. of crossroads, in root on W. side of 10-in. elm tree; copper nail and washer	406.27

5. WEST ALONG CENTRAL PART OF NORTH BORDER OF QUADRANGLE (by M. G. Handy in 1934)
(Continued from Williamsville quadrangle; see line no. 6.)

Oak Stalk Store, 3 mi. W. of, E. of Butler-Ripley county line, 0.3 mi. S. of Beaver Dam Creek, 50 ft. W. of T-rd. N., 400 ft. NW. of house, in root on S. side of 36-in. oak tree; copper nail and washer	518.82
Oak Stalk Store, 3.9 mi. W. of, in sec. 9, T. 24 N., R. 4 E., 15 ft. S. of rd., in root on N. side of 12-in. oak tree; copper nail and washer	541.86
Oak Stalk Store, 4.8 mi. W. of, near N. edge of sec. 17, T. 24 N., R. 4 E., 500 ft. N. of dim crossroads, 10 ft. N. of rd., in concrete post; standard tablet	562.421
Reference mark, 25 ft. E. of tablet, 25 ft. N. of rd., in root on S. side of 30-in. oak tree; copper nail and washer	563.12
Oak Stalk Store, 5.8 mi. W. of, 20 ft. S. of rd., in root on N. side of 15-in. oak tree; copper nail and washer	601.78
Oak Stalk Store, 6.8 mi. SW. of, 250 ft. E. of drain head, 25 ft. N. of rd., in root on W. side of 36-in. oak tree; copper nail and washer	598.95

(Continued in Williamsville quadrangle; see line no. 6.)

6. IN SOUTHWEST CORNER OF QUADRANGLE (by B. A. Barnes in 1935)
(Continued from Doniphan quadrangle; see line no. 9.)

T. 22 N., R. 3 E., in SW $\frac{1}{4}$ sec. 34, 14 ft. E. of rd., in root on W. side of 20-in. gum tree; copper nail and washer	310.10
T-rd. S., 115 ft. N. of, in root on SE. side of 12-in. elm tree; crossed nails	332.50
T. 22 N., R. 3 E., near cor. secs. 26, 27, 34, and 35, 15 ft. N. and 20 ft. W. of crossroads, in root on S. side of 22-in. black oak tree; copper nail and washer	298.40
T. 22 N., R. 3 E., near cor. secs. 25, 26, 35, and 36, 25 ft. E. and 5 ft. S. of turn in rd. from W. to S., in root on W. side of 20-in. white oak tree; copper nail and washer	291.58
Telephone pole, 30 ft. N. of rd., 30 ft. W. of main line of St. Louis-San Francisco R. R. at Sinsabaugh (Acorn post office)	291.8
U. S. C. & G. S. B. M. designated "Z 14 1932"	289.468

7. FROM PULASKI SOUTH AND WEST INTO DONIPHAN QUADRANGLE

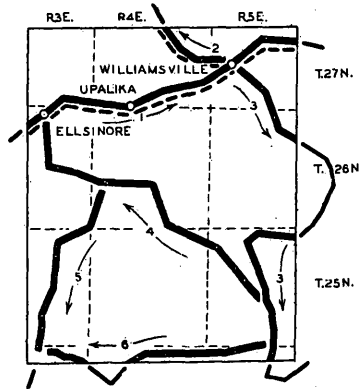
Pulaski, 0.4 mi. S. of, 27 ft. N. and 21 ft. W. of T-rd. W. at quarter cor. between secs. 28 and 33, T. 23 N., R. 3 E., in corner of fences N. and W., in concrete post; standard tablet stamped "T T 1624 E R A 1935"	432.769
Top of ridge, 90 ft. N. and 60 ft. W. of junction of dim rd. E., in root on SE. side of 10-in. white oak tree; crossed nails	507.7
T. 23 N., R. 3 E., S. quarter cor. sec. 33, 70 ft. S. and 45 ft. W. of County Route B at rd. N., in root on N. side of 32-in. black oak tree; copper nail and washer	476.70

(Continued in Doniphan quadrangle; see line no. 10.)

For additional level lines along St. Louis-San Francisco R. R. and Missouri Pacific R. R., refer to United States Coast and Geodetic Survey first-order line, Cape Girardeau, Mo. to Hoxie, Ark., and second-order line, Lilbourn to Naylor.

WILLIAMSVILLE QUADRANGLE
(Latitude 36°45'-37°; longitude 90°30'-90°45')

Butler, Carter, Ripley, and Wayne Counties.



1. EAST ALONG ST. LOUIS-SAN FRANCISCO R. R. (by E. C. Bibbee in 1914.)
(Continued from Grandin quadrangle; see line no. 2.)

	Feet
Ellsinore, 120 ft. S. and 75 ft. E. of St. Louis-San Francisco R. R. station, 20 ft. N. of rd., 30 ft. E. of N.-S. rd.; iron post stamped "Prim Trav Sta No 25 F 1924 Mo 710"	710.668
Ellsinore, 1.1 mi. E. of, along St. Louis-San Francisco R. R., in base of milepost B-215; spike	783.48
Ellsinore, 2.2 mi. E. of, along St. Louis-San Francisco R. R., 4½ telegraph poles E. of milepost B-214, 5 ft. S. of track, in ledge of rock; chiseled square	807.53
Orchard Switch, 0.4 mi. W. of, along St. Louis-San Francisco R. R., at switch, 70 ft. N. of track, in top of oak stump; copper nail	777.18
Orchard Switch, 200 ft. E. of signboard, 100 ft. S. of St. Louis-San Francisco R. R., at E. end of siding, at NE. corner of W. N. Potter's yard; iron post stamped "Prim Trav Sta No 24 F 1924 767"	767.977
Carter-Wayne county line	761.
Orchard Switch, 0.5 mi. E. of, along St. Louis-San Francisco R. R., 50 ft. W. of milepost B-212, 20 ft. N. of track, 25 ft. S. of rd., in large granite rock; chiseled square	755.31
Upalika, 2.2 mi. W. of, along St. Louis-San Francisco R. R., in base of milepost B-211; spike	750.93
Upalika, 1.3 mi. W. of, along St. Louis-San Francisco R. R., 70 ft. W. of milepost B-210, 20 ft. S. of track, on sandstone rock; highest point	742.18
Upalika, 0.4 mi. W. of, along St. Louis-San Francisco R. R., opposite second telegraph pole W. of milepost B-209, in cut, 5 ft. S. of track, in ledge; chiseled square	734.23
Upalika, across from post office, 80 ft. S. of St. Louis-San Francisco R. R., 25 ft. W. of rd., 2 ft. E. of fence; iron post stamped "Prim Trav Sta No 23 F 1924 Mo 740"	739.861
Upalika, 1 mi. E. of, along St. Louis-San Francisco R. R., opposite tenth telegraph pole E. of milepost B-208, 5 ft. N. of track, in ledge; chiseled square	668.57
Upalika, 1.9 mi. E. of, along St. Louis-San Francisco R. R., seven telegraph poles E. of milepost B-207, 60 ft. N. of track, 5 ft. W. of rd., in root of black oak tree; copper nail	605.37
Doyle switch, 30 ft. W. of milepost B-206, at E. end of frog; highest point	541.25
Williamsville, 3 mi. W. of, along St. Louis-San Francisco R. R., 950 ft. W. of milepost 205, 160 ft. E. of R. R. at rd. crossing, 60 ft. S. of track; iron post stamped "Prim Trav Sta No 22 F 1924 Mo 467"	467.466
Williamsville, 1.7 mi. W. of, along St. Louis-San Francisco R. R., in W. head of S. end of trestle no. B-204; copper nail	407.01
Williamsville, 0.7 mi. W. of, along St. Louis-San Francisco R. R., in base of first telegraph pole W. of milepost B-203; spike	385.71
Williamsville, 60 ft. SW. of St. Louis-San Francisco and Missouri Pacific R. R. crossing, in NE. corner of hotel yard; iron post stamped "Prim Trav Sta No 21 F 1924 Mo 392"	391.846
Williamsville, at St. Louis-San Francisco and Missouri Pacific R. R. crossing; top of rail	394.5
Williamsville, in front of St. Louis-San Francisco R. R. station; top of rail	394.4
Williamsville, 1.1 mi. E. of, along St. Louis-San Francisco R. R., in S. end of third bent from W. end of trestle no. B-201.3 under second-class crossing; iron pin	415.10
Williamsville, 2.3 mi. E. of, along St. Louis-San Francisco R. R., 340 ft. E. of trestle no. B-200.2, 55 ft. S. of track, near R. R. crossing, on N. side of rd., in large granite rock; chiseled square	526.94

(Continued in Poplar Bluff quadrangle; see line no. 1.)

2. FROM WILLIAMSVILLE NORTHWEST ALONG MISSOURI PACIFIC R. R. TO NORTH BORDER OF QUADRANGLE (by F. L. Whaley in 1925)

Williamsville, 60 ft. SW. of St. Louis-San Francisco and Missouri Pacific R. R. crossing, in NE. corner of hotel yard; iron post stamped "Prim Trav Sta No 21 F 1924 Mo 392"	391.846
Reference mark, 121 ft. W. of tablet, in hotel yard opposite Missouri Pacific R. R. station, in root of 10-in. maple tree; copper nail and washer	392.07
Williamsville, 0.8 mi. W. of, along Missouri Pacific R. R., S. of track, at semaphore no. 1449, in NE. corner of concrete base; chiseled square	395.07
Williamsville, 1.5 mi. NW. of, along Missouri Pacific R. R., near milepost 144, E. of track, 40 ft. NE. of rd. at private rd., at gate, in root of walnut tree; copper nail and washer	399.54
Williamsville, 2.5 mi. NW. of, along Missouri Pacific R. R., 100 ft. N. of rd. crossing, opposite T-rd. SW., in rock; standard tablet stamped "Prim Trav Sta No 52 F 1924 1925 W"	399.753
Reference mark, 232 ft. S. 60° E. of tablet, 150 ft. S. of rd. crossing, at NE. corner of concrete culvert, in top of concrete head wall; chiseled square	399.82
Williamsville, 3.3 mi. NW. of, along Missouri Pacific R. R., 10 ft. SE. of semaphore no. 1423, 30 ft. SE. of milepost 142-10, 2 ft. W. of track, in wall in top of large granite rock; chiseled square	404.65
Williamsville, 4.3 mi. NW. of, along Missouri Pacific R. R., on E. side of N. end of trestle bridge no. 148, in top of first bent; copper nail and washer	407.08

(Continued in Piedmont quadrangle; see line no. 1.)

3. FROM WILLIAMSVILLE SOUTHEAST AND SOUTH ALONG EAST BORDER OF QUADRANGLE (by George W. Moore in 1931)

Williamsville, 0.9 mi. SE. of, along Missouri Pacific R. R., on S. side of track, in top of E. end of concrete culvert; chiseled square	388.00
Williamsville, 1.8 mi. SE. of, along Missouri Pacific R. R., in top of W. end of S. head wall of concrete culvert; chiseled square	382.06
Williamsville, 3 mi. SE. of, along Missouri Pacific R. R., 1.5 mi. NW. of Keener, in top of E. end of cross brace at N. pier of wooden trestle no. 164; copper nail and washer	383.11
Williamsville, 4 mi. SE. of, along Missouri Pacific R. R., 0.4 mi. NW. of Keener, 32 ft. E. of post on Butler-Wayne county line, 50 ft. E. of NE. rail of track, 10 ft. SE. of bank of small creek, 1 ft. W. of fence, in concrete post; standard tablet stamped "1 M 1931"	378.566
Reference mark, 0.1 mi. SE. of tablet, at semaphore no. 1495, in top of E. corner of concrete base; chiseled square	384.19
Keener, 270 ft. W. of Missouri Pacific R. R. at rd. crossing, at S. side of track, 2 ft. above ground, in top of 8-in. square, concrete milepost with copperplate stamped "M P 150-7920+00", small copper bolt in chiseled square	380.12

(For balance in Poplar Bluff quadrangle, see line no. 5.)

Hendrickson, 3.7 mi. S. and 1.7 mi. W. of, 60 ft. SW. of rd. forks, 40 ft. W. of Philip Martin's house, in root on N. side of 14-in. oak tree; copper nail and washer	530.86
Hendrickson, 3.7 mi. S. and 2.7 mi. W. of, 1 mi. W. of Philip Martin's house, at NW. edge of rd., in root on E. side of 12-in. hickory tree; copper nail and washer	572.85
Cane Creek School, about 2 mi. N. of, 1.5 mi. W. of Philip Martin's house, on W. end of flat timbered ridge, 4 meters (13 ft.) SW. of Ridge rd., 7.8 meters (26 ft.) SE. of 16-in. oak tree, 7.6 meters (25 ft.) W. of 12-in. oak tree, in top of square, concrete block; U. S. C. & G. S. triangulation station tablet stamped "Martin"	572.347
Reference mark no. 1, NE. of station, 12 meters (39 ft.) E. of ridge rd., in concrete post; standard U. S. C. & G. S. reference mark tablet	567.465
Reference mark no. 2, S.-SE. of station, 16 meters (52 ft.) E. of Ridge rd., in concrete post; standard U. S. C. & G. S. reference mark tablet	566.850
Cane Creek School, 2 mi. N. of, opposite rd. NE. to Martin triangulation station, 125 ft. SE. of ford across creek, 12 ft. NW. of Burton's mail box, at NE. edge of rd., in root on NE. side of 12-in. ash tree; copper nail and washer	400.95
Cane Creek School, about 1 mi. N. of, 205 ft. S. of gate at entrance to Carl Kearbey's yard, 280 ft. N. of curve in rd. from N. to SW., 20 ft. E. of rd., opposite large barn, in root on SW. side of 18-in. oak tree; copper nail and washer	390.90
Cane Creek School, 75 ft. E. and 35 ft. N. of rd. at T-rd. E., 20 ft. S. of schoolhouse, in root on NW. side of 20-in. elm tree; copper nail and washer	371.53
Cane Creek School, 0.8 mi. S. of, 100 ft. E. of NE. corner of old Methodist Church, in top of NE. corner of NW. head wall of concrete culvert; chiseled square	380.97
Poplar Bluff, 8.5 mi. NW. of, along U. S. Highway 60, in top of SW. end of SE. concrete abutment of bridge over Cane Creek; standard tablet stamped "4 M 1931"	362.405
Reference mark no. 1, 111 ft. NW. of tablet, in top of NE. end of NW. concrete abutment of bridge over Cane Creek; chiseled square	362.21
Reference mark no. 2, 15 in. NE. of tablet, in concrete curbing of bridge; chiseled cross	362.30
Cane Creek School, 2.6 mi. S. of, 135 ft. S. of rd. fork NE. at top of hill, at W. edge of rd., in root on E. side of 12-in. oak tree; copper nail and washer	514.90
Cane Creek School, 3.5 mi. S. of, 2.9 mi. N. of Bay Springs Church, 60 ft. W. of curve in rd. from NE. to S., in root on E. side of 18-in. oak tree; copper nail and washer	385.17
Bay Springs Church, 2 mi. N. of, 0.3 mi. E. of bridge over Cane Creek, 55 ft. W. of mail boxes in triangle at rd. fork N., inside of fence at N. edge of rd., in concrete post; standard tablet stamped "5 M 1931"	339.583
Reference mark, 120 ft. E. of tablet, 65 ft. E. of mail boxes, 20 ft. N. of rd., in root on N. side of 20-in. white oak tree; copper nail and washer	337.03
Cane Creek, in floor at E. end of bridge; copper nail and washer	344.60

Bay Springs Church, 1 mi. N. of, 0.2 mi. S. of ford across creek, at curve in rd. from NE. to SE., 20 ft. E. of rd., in root on NW. side of 27-in. oak tree; copper nail and washer 396.40
 Bay Springs Church, 0.6 mi. N. of, 30 ft. NE. of rd. fork NE., at SE. edge of rd., in root on SE. side of 8-in. oak tree; copper nail and washer 504.19

(Continued in Acorn quadrangle; see line no. 2.)

4. FROM NEAR SOUTHEAST CORNER OF QUADRANGLE NORTHWEST ALONG U. S. HIGHWAY 60 TO ELLSINORE (by E. D. Harsha in 1934)

Poplar Bluff, 9.1 mi. NW. of, along U. S. Highway 60, 29 ft. N. and 27 ft. W. of T-rd. N., in root on S. side of 18-in. oak tree; copper nail and washer 490.49
 Poplar Bluff, 9.6 mi. NW. of, along U. S. Highway 60, in front of filling station at Pine Ridge Camp, 21 ft. S. and 30 ft. W. of T-rd. W., in top at N. end of concrete foundation of pump; chiseled square 496.89
 Poplar Bluff, 10.5 mi. NW. of, along U. S. Highway 60, about 1,000 ft. SE. of I. M. Kearby's house, 30 ft. S. of highway at fence S. along W. side of dim rd., in concrete post; standard tablet stamped "T T 18 B 1932 550" 548.838
 Reference mark, 35 ft. S. and 35 ft. W. of tablet, in root on N. side of 14-in. oak tree; copper nail and washer 547.88
 Poplar Bluff, 11.5 mi. NW. of, along U. S. Highway 60, 18 ft. S. and 27 ft. W. of rd. NE., in root on NE. side of 12-in. oak tree; copper nail and washer 574.49
 Ellsinore, 16.1 mi. SE. of, along U. S. Highway 60, 12.6 mi. NW. of Poplar Bluff, 34 ft. S. and 22 ft. W. of highway at rd. S., in concrete post; standard tablet stamped "T T 17 B 1932 558" 556.843
 Reference mark, 7 ft. S. and 73 ft. W. of tablet, in root on NW. side of 10-in. pine tree; copper nail and washer 554.00
 Ellsinore, 14.8 mi. SE. of, along U. S. Highway 60, 350 ft. S. of T-rd. N., in top of S. end of concrete head wall of culvert; chiseled square 595.28
 Ellsinore, 13.2 mi. SE. of, along U. S. Highway 60, 200 ft. W. of M. A. Eudaley's store, in top of E. end of concrete head wall of culvert; chiseled square 666.90
 Ellsinore, 12.7 mi. SE. of, along U. S. Highway 60, 30 ft. SW. of highway, 50 ft. N. and 70 ft. W. of NW. corner of Scott's filling station, in concrete post; standard tablet stamped "T T 16 B 1932 623" 622.018
 Reference mark, 27 ft. S. and 18 ft. W. of tablet, in root on NE. side of 30-in. oak tree; copper nail and washer 619.96
 Ellsinore, 11.6 mi. SE. of, along U. S. Highway 60, 35 ft. W. of highway at curve, in root on E. side of 30-in. oak tree; copper nail and washer 667.92
 Ellsinore, 10 mi. SE. of, along U. S. Highway 60, 0.1 mi. N. of T-rd. W., in top at S. end of W. concrete head wall of clay drain pipe; chiseled square 724.20
 Ellsinore, 9.6 mi. SE. of, along U. S. Highway 60, 40 ft. N. and 20 ft. E. of highway at junction of dim rd. N., 25 ft. N. and 70 ft. W. of NW. corner of A. B. Short's house, in concrete post; standard tablet stamped "T T 15 B 1932 723" 722.094
 Ellsinore, 8.8 mi. SE. of, along U. S. Highway 60, in top of S. end of E. head wall of clay drain pipe; chiseled square 671.18
 Ellsinore, 7.5 mi. SE. of, along U. S. Highway 60, 30 ft. N. and 70 ft. W. of highway at Butler-Carter county line, in root on S. side of 12-in. hickory tree; copper nail and washer 725.88
 Ellsinore, 6.8 mi. SE. of, along U. S. Highway 60, 28 ft. N. and 43 ft. E. of highway at junction of E. fork of County Route B, in concrete post; standard tablet stamped "T T 72 B 1931 750" 749.567
 Reference mark, 15 ft. N. and 15 ft. E. of tablet, in root on S. side of 24-in. oak tree; copper nail and washer 749.46
 Ellsinore, 5.7 mi. SE. of, along U. S. Highway 60, 25 ft. E. of highway at fences N. and S., in top of E. end of N. head wall of concrete culvert; chiseled square 676.07
 Ellsinore, 5.4 mi. SE. of, along U. S. Highway 60, 30 ft. N. and 10 ft. E. of rd. NE., in root on W. side of 16-in. oak tree; copper nail 750.61
 Ellsinore, 4.8 mi. SE. of, along U. S. Highway 60, about 0.2 mi. NW. of Poverty Ridge-Ozark Handicraft Shop, 33 ft. N. of highway, in root on SW. side of 12-in. oak tree; copper nail and washer 757.54
 Ellsinore, 3.4 mi. SE. of, along U. S. Highway 60, 27 ft. S. and 29 ft. E. of highway at rd. S., 5 ft. N. and 17 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 73 B 1931" 771.201
 Reference mark, 160 ft. W. of tablet, in root on N. side of 12-in. oak tree; copper nail and washer 777.51
 Ellsinore, 2 mi. SE. of, along U. S. Highway 60, 180 ft. N. of highway at rd. W., in top of S. end of E. head wall of concrete culvert; chiseled square 710.51
 Ellsinore, 1 mi. SE. of, along U. S. Highway 60, in top of E. end of N. head wall of concrete culvert; chiseled square 721.13

5. FROM POINT NEAR CENTER OF WEST HALF OF QUADRANGLE SOUTHWEST TO SOUTHWEST CORNER

Thompson Chapel, 5 mi. NE. of, along County Route B, 1.2 mi. S. of U. S. Highway 60, at highest point of rd., 40 ft. W. of rd. at sharp curve to SW., in root on E. side of 30-in. oak tree; copper nail and washer 765.74
 Thompson Chapel, 4.4 mi. NE. of, along County Route B, 1.9 mi. SW. of U. S. Highway 60, 21 ft. N. and 43 ft. W. of rd. W., in root on E. side of 10-in. oak tree; notch 676.76
 Thompson Chapel, 4.1 mi. NE. of, along County Route B, about 2.2 mi. SW. of U. S. Highway 60, on top of SW. corner of W. head wall of concrete culvert; painted square 587.32
 Thompson Chapel, 3.1 mi. NE. of, along County Route B, 3.1 mi. SW. of U. S. Highway 60, 33 ft. S. of rd. at crest, in root on N. side of 12-in. hickory tree; copper nail 706.27
 Thompson Chapel, 2.8 mi. NE. of, along County Route B, 3.4 mi. SW. of U. S. Highway 60, 66 ft. S. and 15 ft. E. of county rd. at rd. SW. to Florence Japlin's mail box, in root on N. side of 14-in. oak tree; copper nail and washer 705.42

Thompson Chapel, 1.3 mi. NE. of, in NE $\frac{1}{4}$ sec. 10, T. 25 N., R. 3 E., 93 ft. S. and 40 ft. W. of County Route B at cross rd., 9 ft. S. and 3 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 70 B 1931 738" 737.196
 Reference mark, 42 ft. S. and 27 ft. E. of tablet, in root on E. side of 36-in. oak tree; copper nail and washer 739.96
 Thompson Chapel, along old Doniphan-Greenville road, 1.4 mi. S. of County Route B, 98 ft. W. of SW. corner of chapel, 35 ft. E. of rd., in root on W. side of 12-in. oak tree; copper nail and washer 680.93
 Thompson Chapel, 1.1 mi. S. of, along old Doniphan-Greenville road, 2.5 mi. S. of County Route B, 20 ft. N. and 15 ft. W. of crossroads, in root on SE. side of 20-in. oak tree; copper nail and washer 694.44
 Pine Valley School, 36 ft. N. and 68 ft. W. of, in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 25 N., R. 3 E., 22 ft. E. of rd., 4 ft. S. and 3 ft. E. of NW. corner of schoolyard, in concrete post; standard tablet stamped "T T 69 B 1931" 602.230
 Reference mark, 7 ft. N. and 43 ft. W. of tablet, in root on E. side of 30-in. oak tree; copper nail and washer 600.24
 Pine Valley School, 1.1 mi. SW. of, along old Doniphan-Greenville road, 50 ft. N. and 27 ft. W. of rd. at dim trail SW., in root on SE. side of 12-in. oak tree; copper nail and washer 640.11
 Pine Valley School, 2.1 mi. SW. of, along old Doniphan-Greenville road, 25 ft. W. of rd., in root on E. side of 14-in. oak tree; copper nail and washer 473.81
 T. 24 N., R. 3 E., about 0.2 mi. S. of cor. secs. 3, 4, 9, and 10, 15 ft. S. and 25 ft. E. of rd. forks, on N. side of Little Black River Valley, inside of fence corner, in concrete post; standard tablet stamped "T T 68 B 1931 422" 420.325
 Reference mark, 21 ft. N. and 36 ft. W. of tablet, in root on W. side of 24-in. oak tree; copper nail and washer 421.77

6. WEST ALONG SOUTH BORDER OF QUADRANGLE (by M. G. Handly in 1934)

Bay Springs School, 0.8 mi. NE. of, 100 ft. N. and 40 ft. W. of rd. forks W., in root on E. side of 30-in. white oak tree; copper nail and washer 523.90
 Bay Springs School, 0.4 mi. SW. of, 25 ft. N. of rd., in root on S. side of 30-in. white oak tree; copper nail and washer 506.18
 T. 24 N., R. 3 E., near quarter cor. between secs. 6 and 7, 0.2 mi. E. of String Town, 1,000 ft. E. of Resnick's Service Station, 50 ft. W. and 25 ft. N. of County Route M at rd. N., 2 ft. N. of E.-W. fence, in concrete post; standard tablet 504.415
 Reference mark, 15 ft. N. and 50 ft. W. of tablet, in root on S. side of 18-in. white oak tree; copper nail and washer 504.47
 String Town, 0.8 mi. W. of, 200 ft. W. and 50 ft. S. of T-rd. N., in root on E. side of 28-in. oak tree; copper nail and washer 476.24
 Oak Stalk Store, 0.8 mi. W. of, 40 ft. N. of rd., in root on S. side of 24-in. white oak tree; copper nail and washer 417.22
 Oak Stalk Store, 1.8 mi. W. of, in S $\frac{1}{2}$ sec. 3, T. 24 N., R. 4 E., 400 ft. E. of T-rd. N., 1 ft. S. of E.-W. fence, in concrete post; standard tablet 436.687
 Reference mark, 80 ft. N. of tablet, in root on S. side of 36-in. black oak tree; copper nail and washer 439.28
 Oak Stalk Store, 2.4 mi. W. of, 50 ft. W. of Butler-Ripley county line, 600 ft. N. of Beaver Dam Creek, 50 ft. SW. of T-rd. S., in root on N. side of 24-in. gum tree; copper nail and washer 412.10

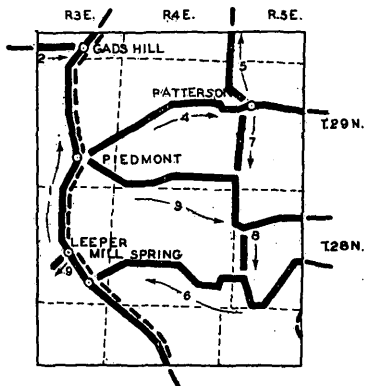
(For balance in Acorn quadrangle, see line no. 5.)

Oak Stalk Store, 7.8 mi. W. of, 5 mi. W. of Butler-Ripley county line, on ridge S. of Beaver Dam Creek, 15 ft. SE. of rd. forks, in triangle formed by dim T-rd. S., in concrete post; standard tablet 627.006
 Reference mark, 50 ft. NW. of tablet, in root on S. side of 18-in. oak tree; copper nail and washer 627.15
 T. 24 N., R. 3 E., in S $\frac{1}{2}$ sec. 2, 500 ft. E. of old house, 20 ft. N. of rd., in root on W. side of 15-in. black oak tree; copper nail and washer 610.49
 T. 24 N., R. 3 E., in SE $\frac{1}{4}$ sec. 3, 40 ft. S. of rd., in root on W. side of 30-in. oak tree; copper nail and washer 580.84

For additional level lines along St. Louis-San Francisco R. R. and Missouri Pacific R. R., refer to United States Coast and Geodetic Survey second-order lines; Mingo to Hunter and Riverside to Williamsville.

PIEDMONT QUADRANGLE
(Latitude 37°-37°15'; longitude 90°30'-90°45')

Carter, Reynolds, and Wayne Counties



1. FROM SOUTH BORDER OF QUADRANGLE NORTHWEST AND NORTH ALONG MISSOURI PACIFIC R. R. TO NORTH BORDER (by F. L. Whaley in 1925)
(Continued from Williamsville quadrangle; see line no. 2.)

	Feet
Granite Bend, 250 ft. N. of Missouri Pacific R. R. station sign, 40 ft. W. of track, 150 ft. N. of rd. crossing, in limestone ledge; standard tablet stamped "Prim Trav Sta No 53 F 1924 W 1925"	415.757
Reference mark, 92 ft. E. of tablet, 180 ft. N. of station sign, 60 ft. N. of rd. crossing, in E. end of concrete culvert; chiseled square	416.03
Mill Spring, 4.1 mi. SE. of, along Missouri Pacific R. R., 360 ft. N. of Warrens Store, in S. end of E. side of concrete bridge over Eads Creek; chiseled square	417.72
Mill Spring, 3.1 mi. SE. of, along Missouri Pacific R. R., 300 ft. N. of telegraph pole no. 136-40, in SW. end of concrete bridge over private rd.; chiseled square	422.20
Mill Spring, 2 mi. SE. of, on W. side of Missouri Pacific R. R., in S. abutment of girder bridge no. 144; standard tablet stamped "Prim Trav Sta No 54 F 1924 W 1925"	427.210
Reference mark, N. 20° E. of tablet, in E. end of N. abutment of girder bridge; chiseled square	427.28
Mill Spring, 1 mi. S. of, along Missouri Pacific R. R., 100 ft. N. of telegraph pole no. 136-5, on E. side of track, in limestone cut, 10 ft. S. of small cave opening, in top of limestone ledge 2 ft. above roadbed; chiseled square	434.06
Mill Spring, 750 ft. SE. of Missouri Pacific R. R. station, 20 ft. W. of Mill Spring, in limestone ledge; standard tablet stamped "Prim Trav Sta No 55 F 1924 W 1925"	430.575
Reference mark, 60 ft. S. 20° W. of tablet, at SW. corner of bridge, in top of concrete; chiseled square	432.39
Leeper, 0.5 mi. SE. of, 80 ft. E. of Missouri Pacific R. R., 300 ft. N. of pole no. 133-30, on rd., in S. corner of W. end of small concrete culvert; chiseled square	440.44
Leeper, 250 ft. N. of Missouri Pacific R. R., in W. side of steps to Ozark Hotel; standard tablet stamped "Prim Trav Sta No 56 F 1924 W 1925"	451.583
Reference mark, 126 ft. S. 20° E. of tablet, 200 ft. N. of R. R., 20 ft. S. of Missouri Southern R. R. office building, in root of 30-in. elm tree; copper nail and washer	443.95
Leeper, 0.6 mi. N. of, along Missouri Pacific R. R., 20 ft. N. of N. end of trestle no. 137, opposite semaphore no. 1331-D, on E. side of track, in SW. corner of concrete foundation for wire leading to semaphore; bolt	449.32
Clearwater station, 0.2 mi. N. of, along Missouri Pacific R. R., at N. end of bridge over drain and dim rd., on E. side of track, in top of first bent; copper nail and washer	449.88
Piedmont, 3.8 mi. S. of, along Missouri Pacific R. R., 200 ft. N. of private rd. crossing, 200 ft. S. of telegraph pole no. 130-25, in S. end of W. side of bridge; chiseled square	459.76
Piedmont, 3 mi. S. of, 30 ft. N. of concrete milepost no. 130, on W. side of Missouri Pacific R. R., in stone approach to bridge over McKenzie Creek; standard tablet stamped "Prim Trav Sta No 57 F 1924 W 1925"	460.734
Piedmont, 3 mi. S. of, 130 ft. N. of milepost no. 130, on W. side of above described R. R. bridge, in top of wing wall; standard tablet (set by unknown party, found in 1931)	455.861
Reference mark, 112 ft. N. of tablet 57 F 1924, 12 ft. E. of other tablet (origin unknown), in N. end of E. side of N. concrete abutment of R. R. bridge; chiseled square	460.86
Piedmont, 2.1 mi. S. of, along Missouri Pacific R. R., SW. of rd. crossing, on top of 36-in. tile culvert; painted square	463.59
Piedmont, 1 mi. S. of, along Missouri Pacific R. R. at trestle no. 133, in top of W. end of second bent from S. end of bridge; copper nail and washer	476.75
Piedmont, at NW. corner of American Hotel, in concrete porch; standard tablet stamped "Prim Trav Sta No 58 F 1924 W 1925"	501.571

Reference mark, 18 ft. SW. of tablet, in root of 10-in. elm tree; copper nail and washer	500.80
Piedmont, 1.2 mi. N. of, along Missouri Pacific R. R., on W. side of track, in SW. corner of concrete base to semaphore no. 1263-6; chiseled square	560.71
Piedmont, .2 mi. N. of, along Missouri Pacific R. R., on W. side of track, in SW. corner of concrete foundation for wire leading to semaphore no. 12400; bolt	633.02
Piedmont, 3 mi. N. of, on W. side of Missouri Pacific R. R. track, 200 ft. E. of concrete house, in W. end of S. pier of steel bridge; standard tablet stamped "Prim Trav Sta No 59 F 1924 W 1925"	634.044
Reference mark, 79 ft. N. of tablet, at N. end of bridge no. 129, in NE. corner of concrete abutment wall; chiseled square	634.05
Gads Hill, 1.8 mi. S. of, along Missouri Pacific R. R., on W. side of track, in concrete base at SW. corner of semaphore no. 1233-D; chiseled square	679.74
Gads Hill, 1.8 mi. S. of, along Missouri Pacific R. R., on E. side of right-of-way, 150 ft. S. of pole marked "121-30", in base of telegraph pole; spike	740.10
Gads Hill, 1.1 mi. S. of, along Missouri Pacific R. R., 23 ft. N. of telegraph pole no. 121-5, in S. corner of E. end of concrete bridge; chiseled square	785.09
Gads Hill, 250 ft. W. of Missouri Pacific R. R. station, 80 ft. N. of store, 3 ft. E. of fence; standard tablet stamped "Prim Trav Sta No 60 F 1924 W 1925"	844.844
Reference mark, 119 ft. N. 40° E. of tablet, at T-rd. W., 40 ft. SW. of Mr. Fitz's house, in root of 36-in. black oak tree; copper nail and washer	847.88
Gads Hill, 0.9 mi. N. of, along Missouri Pacific R. R., in SE. corner of concrete foundation to semaphore no. 1201-D; chiseled square	777.68

(Continued in Des Arc quadrangle; see line no. 1.)

2. FROM WEST BORDER OF QUADRANGLE EAST TO GADS HILL
(Continued from Ruble quadrangle; see line no. 3.)

Gads Hill, 2.5 mi. W. of, 50 ft. NW. of corner of field, 5 ft. S. of rd., in root of 18-in. shellbark hickory tree; copper nail and washer	667.99
Gads Hill, 2 mi. W. of, at top of divide, 80 ft. E. of crossroads, in root of 7-in. white oak tree; copper nail and washer	793.73
Gads Hill, 1 mi. W. of, at T-rd. W., 300 ft. N. of Beulah School, in SE. corner of concrete paved ford across small drain; chiseled square	732.29

3. FROM PIEDMONT EAST TO EAST BORDER OF QUADRANGLE (by George W. Moore in 1931)

Piedmont, in E. part of, in top of S. parapet wall of E. abutment of bridge; chiseled square	498.70
Piedmont, 1.2 mi. E. of, 200 ft. NW. of John Major's house, in top of N. head wall of concrete culvert; chiseled square	563.29
Piedmont, 1.9 mi. SE. of, in top of E. parapet wall of N. abutment; chiseled square	591.73
Piedmont, 2.7 mi. SE. of, 50 ft. E. of T-rd. S., in top of N. head wall of concrete culvert; chiseled square	639.36
Piedmont, 3 mi. SE. of, at foot of hill, 28 ft. S. of Lake Creek road, in concrete post; standard tablet stamped "69 M 1931"	673.954
Reference mark, 21 ft. N. of tablet, in top of S. head wall of concrete culvert; chiseled square	674.89
Piedmont, 3.9 mi. E. of, 18 ft. N. and 120 ft. E. of T-rd. S., in root on SW. side of 14-in. white oak tree; copper nail and washer	849.41
Piedmont, 4.7 mi. E. of, 30 ft. N. and 80 ft. E. of T-rd. SE., in root on S. side of 12-in. black oak tree; copper nail and washer	841.97
Piedmont, 5.2 mi. E. of, 440 ft. W. of T-rd. S., 25 ft. S. of rd., in root on N. side of 11-in. oak tree; copper nail and washer	773.12
Piedmont, 6.1 mi. E. of, 25 ft. S. and 50 ft. E. of rd. forks, in root on NW. side of twin oak tree; copper nail and washer	720.84
Piedmont, 6.8 mi. E. of, at S. edge of rd., opposite abandoned T-rd. NE., in root on NW. side of 24-in. oak tree; copper nail and washer	677.42
Piedmont, 7.8 mi. E. of, at N. edge of rd., in root on SE. side of 34-in. black oak tree; copper nail and washer	662.83
Patterson, 4 mi. S. of, 8 mi. E. of Piedmont, in SW $\frac{1}{4}$ sec. 36, T. 29 N., R. 4 E., N. and 25 ft. W. of T-rd. W., in concrete post; standard tablet stamped "70 M 1931"	70
Reference mark, 93 ft. N. of T-rd. W., in top of E. parapet wall of S. concrete abutment of wooden bridge; chiseled square	639.295
Patterson, 4.8 mi. S. of, 110 ft. SE. of mail boxes in triangle formed by rd. fork SW., at SW. edge of rd., in root on NE. side of 14-in. oak tree; copper nail and washer	637.48
Patterson, 5.9 mi. S. of, at SW. edge of rd., 20 ft. SW. of fence corner of Earl Kinder's farmyard, in root on SE. side of 17-in. oak tree; copper nail and washer	592.73
Patterson, 6.8 mi. S. of, at NE. edge of rd., in root on S. side of 30-in. oak tree; copper nail and washer	572.34
Patterson, 7 mi. S. of, 7 mi. W. of Greenville, 60 ft. NE. of rd. junction at ford, 6 ft. W. of fence corner, in root on N. side of 16-in. oak tree; copper nail and washer	550.65
Greenville, 6.4 mi. W. of, at top of hill, 20 ft. SE. of T-rd. NW., in root on N. side of 9-in. white oak tree; copper nail and washer	527.84
T. 28 N., R. 5 E., center sec. 8, 5.2 mi. W. of Greenville, 100 ft. N. of rd. and creek, on private rd. to W. Hughes' house, in root on SW. side of 20-in. catalpa tree; copper nail and washer	705.98
T. 28 N., R. 5 E., in W. part sec. 9, 4.7 mi. W. of Greenville, at rd. junction, 20 ft. S. and 60 ft. W. of T-rd. W., in root on N. side of 20-in. oak tree; copper nail and washer	572.34
T. 28 N., R. 5 E., in NW $\frac{1}{4}$ sec. 9, 4 mi. W. of Greenville, 375 ft. E. of T-rd. E., in fence at S. edge of rd., in root on N. side of 10-in. sycamore tree; copper nail and washer	469.61
	463.81
	410.54

(Continued in Greenville quadrangle; see line no. 5.)

4. FROM PIEDMONT NORTHEAST ALONG STATE HIGHWAY 34 TO EAST BORDER OF QUADRANGLE

Piedmont, in N. part of, at junction of State Highways 34 and 49, 40 ft. E. of T-rd. NW., in top of E. parapet wall of S. abutment of small highway bridge; chiseled square	501.91
Piedmont, 1.2 mi. NE. of, along State Highway 34, on S. side of steel bridge over Mc Kenzie Creek, in top of W. concrete pier; chiseled square	519.35
Piedmont, 2.2 mi. NE. of, along State Highway 34, in SE $\frac{1}{4}$ sec. 24, T. 29 N., R. 3 E., in top of N. head wall of concrete culvert; chiseled square	570.30
Piedmont, 3 mi. NE. of, along State Highway 34, in NW $\frac{1}{4}$ sec. 19, T. 29 N., R. 4 E., 200 ft. E. of H. S. Smith's house, in E. end of N. wing wall of concrete culvert; standard tablet stamped "P T Sta No 77 S 1926"	630.366
Reference mark, 25 ft. SE. of tablet, in top of S. head wall of concrete culvert; chiseled square	630.36
Piedmont, 3.8 mi. NE. of, at sharp curve in State Highway 34, in top of S. head wall of concrete culvert; chiseled square	618.95
Piedmont, 4.3 mi. NE. of, along State Highway 34, near center sec. 17, T. 29 N., R. 4 E., 60 ft. W. of rd. forks, in root on E. side of 19-in. walnut tree; copper nail and washer	563.68
Piedmont, 4.7 mi. NE. of, along State Highway 34, near center of E $\frac{1}{2}$ sec. 17, T. 29 N., R. 4 E., on E. abutment of small steel bridge over Clark Creek, in top of S. parapet wall; chiseled square	536.11
Piedmont, 5.6 mi. NE. of, along State Highway 34, near N. quarter cor. sec. 16, T. 29 N., R. 4 E., 15 ft. S. of rd. forks, in top of E. head wall of concrete culvert; chiseled square	512.72
Piedmont, 6.2 mi. NE. of, along State Highway 34, 500 ft. E. of S. P. Holmes' store and filling station, in W. end of S. wing wall of concrete culvert; standard tablet stamped "P T Sta No 76 S 1926"	498.801
Reference mark, 26 ft. N. and 10 ft. E. of tablet, in top of E. end of N. head wall of concrete culvert; chiseled square	498.84
Piedmont, 7 mi. NE. of, along State Highway 34, 155 ft. E. of T-rd. S., in top at E. end of N. wing wall of E. abutment of concrete bridge; chiseled square	490.90
Piedmont, 7.9 mi. NE. of, along State Highway 34, near S. quarter cor. sec. 11, T. 29 N., R. 4 E., in top at E. end of S. head wall of concrete culvert; chiseled square	507.53
Patterson, 0.5 mi. W. of, at bend in State Highway 34, in W. end of S. wing wall of concrete culvert; standard tablet stamped "P T Sta No 75 S 1926"	453.943
Reference mark, 26 ft. N. of tablet, in top of N. head wall of concrete culvert; chiseled square	453.01
Patterson, in W. part of, 80 ft. W. of T-rd. N. to Brunot, in top of S. head wall of concrete culvert; chiseled square	430.15
Patterson, 110 ft. W. of crossroads, in top of S. head wall of concrete culvert; chiseled square	424.91
Patterson, 0.8 mi. E. of, along State Highway 34, on S. abutment of large steel bridge over Clark Creek, in top of E. parapet wall; chiseled square	419.21
Patterson, 1.4 mi. E. of, along State Highway 34, 22 ft. S. and 18 ft. W. of T-rd. N. to Sam A. Baker State Park, in root on NW. side of 24-in. white oak tree; copper nail and washer	405.20
Patterson, 1.9 mi. E. of, along State Highway 34, in top of SW. head wall of concrete culvert; chiseled square	406.43
Patterson, 2.2 mi. E. of, along State Highway 34, 1 mi. W. of steel bridge over St. Francis River, 0.2 mi. W. of J. E. Black's house, at curve in rd. at entrance to steep valley, in E. end of N. wing wall of concrete culvert; standard tablet stamped "P T Sta No 74 S 1926"	396.014
Reference mark, 0.2 mi. SE. of tablet, 60 ft. E. and 18 ft. N. of T-rd. S. at SE. corner of J. E. Black's yard, in top of corner post of concrete retaining wall; chiseled square	404.08
Patterson, 3.2 mi. E. of, along State Highway 34, on W. abutment of steel girder bridge over St. Francis River, in top of S. parapet wall; chiseled square	406.69
Reference mark, 3 ft. N. of chiseled square, at SW. corner of bridge, in floor; chiseled square	411.10

(Continued in Greenville quadrangle; see line no. 4.)

5. FROM PATTERSON NORTH TO NORTH BORDER OF QUADRANGLE

Concrete paved ford; chiseled square	417.26
Patterson, 1 mi. N. or, 20 ft. W. of rd., at N. side of gate, in root on E. side of 19-in. oak tree; copper nail and washer	474.11
Patterson, 1.7 mi. N. of, in NW $\frac{1}{4}$ sec. 12, T. 29 N., R. 4 E., 550 ft. S. of crossroads, in top at N. end of W. head wall of concrete culvert; chiseled square	467.23
Patterson, 2.2 mi. N. of, near center of W $\frac{1}{2}$ sec. 1, T. 29 N., R. 4 E., 45 ft. W. of rd., in center of C. E. Gustin's farmyard, in root on NE. side of 23-in. oak tree; copper nail and washer	510.55
Patterson, 2.8 mi. N. of, in NW $\frac{1}{4}$ sec. 1, T. 29 N., R. 4 E., 620 ft. S. of T-rd. E., in top of E. head wall of concrete culvert; chiseled square	502.89
Patterson, 3.3 mi. N. of, in top at E. end of S. wing wall of W. concrete abutment of large wooden bridge over Camp Creek; chiseled square	505.08
Patterson, 4 mi. N. of, 310 ft. N. of T-rd. E., in top of W. head wall of concrete culvert; chiseled square	547.70
Patterson, 4.7 mi. N. of, at foot of pass, 20 ft. W. of rd., inside fence, in root on E. side of 14-in. oak tree; copper nail and washer	581.45

(Continued in Des Arc quadrangle; see line no. 8.)

6. FROM EAST BORDER OF QUADRANGLE WEST TO MILL SPRING

(Continued from Greenville quadrangle; see line no. 8.)

Greenville, 4.5 mi. SW. of, 75 ft. NW. of Holliday Road, 0.2 mi. NE. of rd. fork N., in S. side of 9-in. oak tree; copper nail and washer	591.70
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Greenville, 5.5 mi. SW. of, 40 ft. E. of dim rd. forks, on SE. side of Holliday Road, in root on W. side of 13-in. oak tree; copper nail and washer	570.00
Greenville, 6 mi. SW. of, 80 ft. N. of Holliday Road, at E. edge of private rd. N. over wooden bridge, in root on E. side of 12-in. white oak tree; copper nail and washer	541.93
Greenville, 7 mi. SW. of, along Holliday Road, at junction of Otter Creek road, S. of old sawmill town of Hubert, 66 ft. N. and 12 ft. E. of rd. forks, 9 ft. N. of fence corner, in concrete post; standard tablet stamped "P T Sta No 86 S 1926"	496.696
Reference mark, 105 ft. S. of tablet, in root on NW. side of 30-in. oak tree; copper nail and washer	501.28
Greenville, 7.7 mi. SW. of, on Greenville-Leeper road, near center sec. 31, T. 28 N., R. 5 E., 150 ft. S. of crossroads, at W. edge of rd. at center line of rd. W., in root on S. side of 24-in. sycamore tree; copper nail and washer	497.13
Greenville, 8.8 mi. SW. of, on Greenville-Leeper road, 25 ft. S. and 125 ft. W. of rd. NE., 25 ft. S. and 55 ft. E. of rd. S., in root on NE. side of 17-in. oak tree; copper nail and washer	526.12
Leeper, 8 mi. E. of, on Greenville-Leeper road, 45 ft. N. and 36 ft. W. of rd. forks, 150 ft. E. of J. A. Marler's house, in concrete post; standard tablet stamped "P T Sta No 87 S 1926"	528.923
Reference mark, 85 ft. SW. of tablet, 50 ft. W. of crossroads, on NW. edge of Greenville-Leeper road, in root on SE. side of 16-in. oak tree; copper nail and washer	527.58
Leeper, about 7 mi. E. of, on Greenville-Leeper road, about 1 mi. E. of Mt. Pleasant School, 22 ft. NW. of rd., in root on SE. side of 24-in. oak tree; copper nail and washer	552.66
Leeper, about 6 mi. E. of, on Greenville-Leeper road, about 0.2 mi. E. of Mt. Pleasant School, at W. edge of rd. fork S., 45 ft. N. and 20 ft. W. of fence corner, in root on NE. side of 12-in. walnut tree; copper nail and washer	560.40
Leeper, 5.5 mi. E. of, near center sec. 27, T. 28 N., R. 4 E., 350 ft. NW. of T. J. Turnbolt's house, at junction of Greenville road with rd. N. to Piedmont, 50 ft. SW. of rd. to Otter Creek, in concrete post; standard tablet stamped "P T Sta No 88 S 1926"	574.842
Reference mark, 115 ft. N. of tablet, in fence on W. edge of lane, in root on E. side of 19-in. mulberry tree; copper nail and washer	575.80
Leeper, about 5 mi. E. of, on Greenville-Leeper road, at top of hill, on W. side of rd., in root on S. side of 10-in. white oak tree; copper nail and washer	708.57
Leeper, about 4.5 mi. E. of, on Greenville-Leeper road, 140 ft. E. of rd. forks, 50 ft. NW. of old rd. forks, in root on S. side of 14-in. hickory tree; copper nail and washer	751.53
Leeper, about 3.5 mi. E. of, on Greenville-Leeper road, 28 ft. S. of rd. fork SE., in root on NW. side of 8-in. pine tree; copper nail and washer	769.72
Leeper, 3 mi. E. of, on Greenville-Leeper road, 200 ft. N. and 150 ft. W. of cor. secs. 19, 20, 29, and 30, T. 28 N., R. 4 E., 120 ft. N. of Dan Blackwell's house, in concrete post; standard tablet stamped "P T Sta No 89 S 1926"	806.529
Reference mark, 65 ft. S. of tablet, in N. corner of Dan Blackwell's yard, in root on NE. side of 20-in. silver poplar tree; copper nail and washer	808.05
Leeper, about 2.7 mi. E. of, on Greenville-Leeper road, at top of hill, 35 ft. SW. of dim rd. fork S., in root on N. side of 7-in. oak tree; copper nail and washer	821.91
Leeper, about 2 mi. E. of, on Greenville-Leeper road, at foot of hill, 11 ft. NW. of rd., in root on SE. side of 10-in. oak tree; copper nail and washer	546.43
Leeper, about 1.5 mi. E. of, on Greenville-Leeper road, near center sec. 25, T. 28 N., R. 3 E., 65 ft. N. of rd. forks, in root on E. side of 26-in. sycamore tree; copper nail and washer	466.44

7. FROM PATTERSON SOUTH ABOUT 3 MILES

Patterson, 0.8 mi. S. of, near center of NW $\frac{1}{4}$ sec. 19, T. 29 N., R. 5 E., 15 ft. N. and 25 ft. E. of T-rd. W., at T-fence E., in W. side of concrete base of corner fence post; chiseled square	440.20
Patterson, 1.3 mi. S. of, near center of W $\frac{1}{2}$ sec. 19, T. 29 N., R. 5 E., 11 ft. S. and 25 ft. E. of T-rd. W., 11 ft. W. of N.-S. fence, in center of E. head wall of concrete culvert; chiseled square	474.47
Patterson, 1.6 mi. S. of, 0.3 mi. N. of cor. secs. 19, 24, 25, and 30, T. 29 N., Rs. 4 and 5 E., 50 ft. N. and 18 ft. E. of T-rd. E., at gate, in root on NE. side of 20-in. oak tree; copper nail and washer	456.40
Patterson, 2.8 mi. S. of, near center of E $\frac{1}{2}$ sec. 25, T. 29 N., R. 4 E., at foot of hill, 35 ft. E. of rd. forks, 20 ft. S. of main rd., in root on N. side of twin birch tree; copper nail and washer	542.12

8. SHORT TIE LINE IN SOUTHEAST QUARTER OF QUADRANGLE

T. 28 N., R. 5 E., in NE $\frac{1}{4}$ sec. 19, 8.3 mi. S. of Patterson, 25 ft. S. and 25 ft. E. of T-rd. E., in corner fence post; spike	504.36
T. 28 N., R. 5 E., near SE. cor. sec. 19, 9.4 mi. S. of Patterson, 22 ft. S. and 24 ft. E. of private rd. E., at foot of hill, in root on W. side of 11-in. oak tree; copper nail and washer	547.42

9. LINE TO ESTABLISH ELEVATION ON U. S. G. S. GAGING STATION TABLET AT LEEPER (by F. C. Lentz in 1936)

U. S. C. & G. S. B. M. designated "V 116 1935"	444.215
Leeper, 0.5 mi. W. and 0.5 mi. S. of, along State Highway 34, in SE. abutment of bridge over Black River; U. S. G. S. gaging station tablet	457.421

TIE BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD-ORDER LINE
AT MILL SPRING

U. S. C. & G. S. B. M. designated "U 116 1935" 438.323
 Mill Spring, 750 ft. SE. of Missouri Pacific R. R. station, 20 ft. W. of Mill Spring,
 in limestone ledge; standard tablet stamped "Prim Trav Sta No 55 F 1924 W
 1925" 430.575

TIE AT PLATOW BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD-ORDER
LINE

U. S. C. & G. S. B. M. designated "U 139 1935" 644.566
 Piedmont, 3 mi. N. of, on W. side of Missouri Pacific R. R. track, 200 ft. E. of
 concrete house, in W. end of S. pier of steel bridge; standard tablet stamped
 "Prim Trav Sta No 59 F 1924 W 1925" 634.044

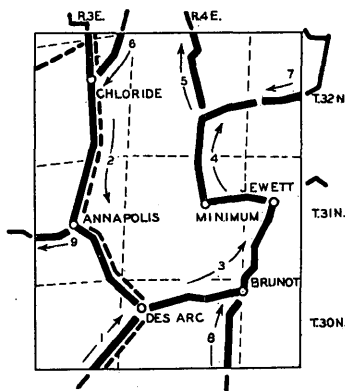
TIE AT GADS HILL BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD-
ORDER LINE

Gads Hill, 250 ft. W. of Missouri Pacific R. R. station, 80 ft. N. of store, 3 ft.
 E. of fence; standard tablet stamped "Prim Trav Sta No 60 F 1924 W 1925" 844.844
 U. S. C. & G. S. B. M. designated "R 139 1925" 839.943

For additional level lines along Missouri Pacific R. R. and U. S. Highway 67, refer to
 U. S. C. & G. S. second-order lines; Riverside to Williamsville and Elvins to Taskee.

DES ARC QUADRANGLE
(Latitude 37°15'-37°30'; longitude 90°30'-90°45')

Iron, Madison, Reynolds, and Wayne Counties



1. FROM SOUTH BORDER OF QUADRANGLE NORTH ALONG MISSOURI PACIFIC R. R. TO DES ARC (by
 F. L. Whaley in 1925)
 (Continued from Piedmont quadrangle; see line no. 1.)

Gads Hill, 1.7 mi. N. of, along Missouri Pacific R. R., on E. side of track, in Feet
 NW. corner of concrete foundation block of semaphore no. 1186; chiseled
 square 710.35
 Des Arc, 2 mi. S. of, along Missouri Pacific R. R., on E. side of S. pier of bridge
 no. 123, in top of sandstone coping; chiseled square 632.28
 Des Arc, 0.6 mi. S. of, along Missouri Pacific R. R., 30 ft. S. of private rd. cross-
 ing, in base of second telegraph pole S. of pole marked "116-25"; spike 584.82

2. FROM NORTH BORDER OF QUADRANGLE SOUTH ALONG MISSOURI PACIFIC R. R. TO CHLORIDE
 (leveled twice by W. R. Broadus and F. L. Whaley in 1925)
 (Continued from Middlebrook quadrangle; see line no. 2.)

Hogan, 1 mi. S. of, 230 ft. S. and 70 ft. W. of Missouri Pacific R. R. at rd. crossing,
 in top of E. head wall of concrete culvert under highway; chiseled square 855.18
 Glover, 0.6 mi. N. of, 150 ft. W. of Missouri Pacific R. R., 40 ft. W. of rd.,
 in ledge; standard tablet stamped "Prim Trav Sta No 67 F 1924 B 35 1925" 847.229
 Reference mark, 90 ft. N. of tablet, in top of base to railing on W. side of
 concrete bridge; chiseled square 844.68
 Glover, in front of Missouri Pacific R. R. station; top of rail 824.8
 Glover, 100 ft. SW. of Missouri Pacific R. R. station, in top of E. head wall
 of concrete culvert under highway; chiseled square 820.74
 Glover, 0.9 mi. S. of, 170 ft. SE. of Glover School, 60 ft. W. of Missouri Pacific
 R. R. at rd. crossing, in top of E. head wall of concrete culvert under highway;
 chiseled square 798.10
 Chloride, 240 ft. W. of Missouri Pacific R. R., 60 ft. W. of rd., in ledge; standard
 tablet stamped "Prim Trav Sta No 66 F 1924 B 36 1925" 777.065
 Reference mark, 88 ft. S. 50° E. of tablet, in top of W. head wall of concrete
 culvert under highway; chiseled square 773.425

FROM CHLORIDE SOUTH ALONG MISSOURI PACIFIC R. R. TO DES ARC. (by W. R. Enoedus in 1925)

(Continuation of line no. 2.)

Chloride, 0.8 mi. S. of, 260 ft. SW. of Missouri Pacific R. R. at rd. crossing, in top of N. end of E. railing of concrete highway bridge; chiseled square	767.81
Chloride, 1.4 mi. S. of, in top of W. end of S. abutment of Missouri Pacific R. R. bridge over Big Creek; chiseled square	750.64
Sabula, 1.7 mi. N. of, 80 ft. W. of Missouri Pacific R. R. at rd. crossing, in root on N. side of 15-in. sycamore tree; copper nail and washer	723.40
Sabula, C. 7 mi. N. of, NW. of Missouri Pacific R. R. at rd. crossing, in top of N. end of concrete culvert; chiseled square	711.23
Sabula, 75 ft. NW. of store and post office, 30 ft. N. and 40 ft. E. from Missouri Pacific R. R. at rd. crossing, in large rock; standard tablet stamped "Prim Trav Sta No 65 F 1924 B 37 1925"	690.467
Reference mark, 365 ft. N. of tablet, in top of W. end of S. abutment of concrete highway bridge; chiseled square	692.08
Sabula, in front of Missouri Pacific R. R. station; top of rail	689.3
Sabula, 1 mi. S. of, 0.2 mi. S. of milepost 105, 90 ft. E. of Missouri Pacific R. R. at rd. crossing, in root on NW. side of 16-in. hickory tree; copper nail and washer	666.46
Sabula, 2.3 mi. S. of, on E. side of Missouri Pacific R. R., 200 ft. S. of milepost 106.15, in top of NE. end of E. head wall of concrete culvert under R. R.; chiseled square	648.51
Sabula, 2.5 mi. S. of, 1.2 mi. N. of Annapolis, 64 ft. S. of Missouri Pacific R. R., 10 ft. S. of rd., 60 ft. N. of mill dam across Big Creek in root on N. side of 30-in. elm tree; copper nail and washer	639.50
Annapolis, in front of Missouri Pacific R. R. station; top of rail	632.6
Annapolis, at S. limits of, 220 ft. NE. of Missouri Pacific R. R. water tank, in large boulder; standard tablet stamped "Prim Trav Sta No 64 F 1924 B 38 1925"	629.065
Reference mark, 220 ft. SW. of tablet, in top of NE. corner of concrete base of R. R. water tank; chiseled square	628.99
Annapolis, 1.8 mi. SE. of, on E. side of N. end of Missouri Pacific R. R. bridge over Big Creek, in top of abutment; chiseled square	603.49
Annapolis, 2.6 mi. SE. of, 130 ft. E. and 10 ft. S. of Missouri Pacific R. R. at rd. crossing, in root on N. side of 15-in. black oak tree; copper nail and washer	581.62
Vulcan, 1.5 mi. N. of, 3.5 mi. S. of Annapolis, 60 ft. E. and 20 ft. S. of Missouri Pacific R. R. at rd. crossing, in root on NE. side of 12-in. sycamore tree; copper nail and washer	565.26
Vulcan, 150 ft. N. of Missouri Pacific R. R. station, on E. side of R. R., 30 ft. N. of rd. crossing, in large rock; standard tablet stamped "Prim Trav Sta No 63 F 1924 B 38 1925"	553.949
Reference mark, 20 ft. NE. of tablet, in root on E. side of 24-in. black oak tree; copper nail and washer	553.83
Vulcan, 1 mi. S. of, on W. side of Missouri Pacific R. R., near milepost 113.23, in top of N. side of concrete base of semaphore signal; chiseled square	549.14
Des Arc, 0.8 mi. N. of Missouri Pacific R. R. station, 25 ft. S. of rd. crossing, in top of NE. corner of concrete base of warning bell; chiseled square	534.69
Des Arc, 1 ft. from SE. corner of bank, in concrete porch; standard tablet stamped "Prim Trav Sta No 62 F 1924 W 1925"	543.483
Reference mark, 79 ft. SW. of tablet, at SE. corner of steps to A. K. Wallis' store, in concrete walk; chiseled square	545.48

3. FROM DES ARC EAST TO BRUNOT, THENCE NORTH TO JEWETT

Des Arc, 1.8 mi. E. of, 20 ft. N. of rd., at top of hill, opposite house, in root on S. side of 24-in. locust tree; copper nail and washer	574.66
Des Arc, 2.5 mi. E. of, 75 ft. W. and 30 ft. N. of rd. at junction of lane S. to Charles Clifton's house, in root on SW. side of 14-in. black oak tree; copper nail and washer	574.39
Des Arc, 3 mi. E. of, in SE. corner of concrete porch of Presbyterian Church; standard tablet stamped "Prim Trav Sta No 86 F 1924 B 39 1925"	588.895
Reference mark, 40 ft. S. 60° W. of tablet, in root on E. side of 14-in. sugar maple tree; copper nail and washer	582.76
Brunot, 2 mi. W. of, 0.8 mi. E. of church, 30 ft. S. of rd., at top of hill, in root on N. side of 10-in. black oak tree; copper nail and washer	658.99
Brunot, 0.8 mi. W. of, 540 ft. NW. of W. M. Declue's house, 50 ft. SE. of rd., 120 ft. E. of drain crossing, in root on N. side of 12-in. black gum tree; copper nail and washer	573.97
Brunot, at NW. corner of crossroads, 10 ft. E. and 3 ft. N. of corner of fence around Russell's house, in ledge; standard tablet stamped "Prim Trav Sta No 85 F 1924 B 40 1925"	514.857
Reference mark, 40 ft. SW. of tablet, in root on W. side of 7-in. locust tree; copper nail and washer	516.90
Brunot, 1.3 mi. N. of, 150 ft. NW. of Peter S. Orphan's house, 15 ft. E. of Brunot-Jewett road, in root on W. side of 24-in. post oak tree; copper nail and washer	509.88
Brunot, 2.1 mi. N. of, on W. side of Brunot-Jewett road, 12 ft. N. of rd. forks, in root on NE. side of 7-in. elm tree; copper nail and washer	549.35
Brunot, 3 mi. N. of, on W. side of Brunot-Jewett road, 100 ft. W. of old sawmill, 150 ft. N. of Alcorn's house, in boulder; standard tablet stamped "Prim Trav Sta No 84 F 1924 B 41 1925"	616.673
Reference mark, 28 ft. N. 30° W. of tablet, in root on S. side of 3-in. sycamore tree; copper nail and washer	617.84
Brunot, 3.6 mi. N. of, 17 ft. W. of Brunot-Jewett road, at top of hill, in root on E. side of 20-in. red oak tree; copper nail and washer	794.56
Jewett, 1.5 mi. S. of, 10 ft. E. of Jewett-Brunot road, at top of hill, in root on SW. side of 24-in. black oak tree; copper nail and washer	842.58
Jewett, 0.8 mi. S. of, 10 ft. W. of Jewett-Brunot road, 35 ft. N. of junction of dim rd., in root on N. side of 14-in. pine tree; copper nail and washer	637.84

Jewett, 200 ft. N. of post office, at T-rd. S., 10 ft. S. of fence, in ledge; standard tablet stamped "Prim Trav Sta No 83 F 1924 B 42 1925" 554.560
 Reference mark, 12 ft. SE. of tablet, in root on W. side of 12-in. maple tree; copper nail and washer 554.87

4. FROM JEWETT WEST TO MINIMUM, THENCE NORTH ABOUT 6 MILES AND EAST TO POINT ABOUT 4 MILES WEST OF FRENCH MILLS

Jewett, 0.5 mi. W. of post office, 25 ft. SE. of rd. forks, in root on W. side of 14-in. sugar maple tree; copper nail and washer 574.83
 Jewett, 1.6 mi. W. of post office, 350 ft. SW. of Blake's store, 20 ft. SE. of rd. corner, 4 ft. from fence corner, in ledge; standard tablet stamped "Prim Trav Sta No 82 F 1924 B 43 1925" 637.551
 Reference mark, 128 ft. W. of tablet, 10 ft. S. of rd., in root on N. side of 12-in. black oak tree; copper nail and washer 648.50
 Jewett, 2 mi. W. of, 10 ft. E. of rd., at top of hill, in root on S. side of 20-in. black oak tree; copper nail and washer 858.06
 Minimum, 2.1 mi. E. of post office, 10 ft. S. of rd., at top of ridge, in root on N. side of 18-in. leaning post oak tree; copper nail and washer 927.94
 Minimum, 1 mi. E. of post office, 400 ft. W. of rd. forks, 30 ft. W. of junction of double tracks of rd., in root on N. side of 16-in. sycamore tree; copper nail and washer 690.22
 Minimum, 60 ft. S. of post office, 40 ft. SW. of T-rd. W., in ledge; standard tablet stamped "Prim Trav Sta No 79 F 1924 B 44 1925" 615.024
 Reference mark, 35 ft. S. 15° E. of tablet, in root on N. side of 18-in. walnut tree; copper nail and washer 614.61
 Minimum, 1 mi. N. of, 100 ft. S. of lane, on W. side of rd., in root on N. side of 7-in. walnut tree; copper nail and washer 658.91
 Minimum, 2.2 mi. N. of, 90 ft. NE. of creek crossing, 27 ft. E. of rd., in root on W. side of 36-in. red oak tree; copper nail and washer 690.02
 Minimum, 3 mi. N. of, 40 ft. E. of rd., near top of ridge, in granite boulder; standard tablet stamped "Prim Trav Sta No 76 F 1924 B 45 1925" 853.244
 Reference mark, 35 ft. N. 20° E. of tablet, in root on SW. side of 16-in. post oak tree; copper nail and washer 855.57
 Minimum, 4.3 mi. N. of, 950 ft. N. of summit of ridge, 20 ft. W. of rd., in root on SE. side of 24-in. red oak tree; copper nail and washer 977.95
 Minimum, 5.5 mi. N. of, 470 ft. W. of rd. forks, 90 ft. S. of rd., 300 ft. W. of W. H. King's mail box, in limestone boulder; standard tablet stamped "Prim Trav Sta No 75 F 1924" 740.889
 Reference mark, 11 ft. S. 30° W. of tablet, in root on NW. side of 24-in. post oak tree; copper nail 741.65
 Minimum, 5.4 mi. N. and 0.8 mi. E. of, 650 ft. W. of Oscar Young's house, 120 ft. W. and 20 ft. S. of T-rd. S., in root on NE. side of 14-in. walnut tree; copper nail and washer 710.67
 Minimum, 5.4 mi. N. and 1.8 mi. E. of, 100 ft. SW. of creek crossing, 20 ft. NW. of rd., in root on SE. side of 20-in. red oak tree; copper nail and washer 667.15
 T. 32 N., R. 5 E., in NW 1/4 sec. 19, 75 ft. W. of blacksmith shop near mill dam, 80 ft. W. of T-rd. N., in ledge; standard tablet stamped "Prim Trav Sta No 77 F 1924" 673.305
 Reference mark, 55 ft. N. 75° S. of tablet, in root on S. side of 15-in. elm tree; copper nail and washer 665.37

5. FROM POINT NEAR CENTER OF NORTH HALF OF QUADRANGLE NORTH TO NORTH BORDER

Arcadia, 9.4 mi. SE. of, 100 ft. W. of Blue School, 30 ft. E. of rd., in root on W. side of 15-in. white oak tree; copper nail and washer 726.34
 Arcadia, 8.5 mi. SE. of, 80 ft. E. of rd., 238 ft. E. of house, in ledge; standard tablet stamped "Prim Trav Sta No 74 F 1924" 752.867
 Reference mark, 107 ft. W. of tablet, in root on E. side of 30-in. cottonwood tree; copper nail and washer 749.31
 Arcadia, 7.6 mi. SE. of, 1.2 mi. S. of Parker's store, 25 ft. E. of rd., at top of hill, in root on W. side of 14-in. white oak tree; copper nail and washer 905.28
 Arcadia, 6.3 mi. SE. of, 45 ft. N. of Parker's store, 15 ft. W. of rd., in root on N. side of a 24-in. walnut tree; copper nail and washer 828.50

(Continued in Middlebrook quadrangle; see line no. 3.)

6. FROM NORTH BORDER OF QUADRANGLE SOUTHWEST TO CHLORIDE

(Continued from Middlebrook quadrangle; see line no. 3.)

Chloride, 3 mi. NE. of, 40 ft. W. of rd. forks, 40 ft. E. of house, in granite boulder; standard tablet stamped "Prim Trav Sta No 71 F 1924" 962.396
 Reference mark, 46 ft. S. of tablet, in root on N. side of 20-in. red oak tree; copper nail and washer 954.83
 Chloride, 2.3 mi. NE. of, 40 ft. W. of house, 10 ft. E. of rd., in root on W. side of 7-in. plum tree; copper nail and washer 885.31
 Chloride, 1.2 mi. NE. of, 30 ft. E. of rd., 90 ft. SW. of Sutton's blacksmith shop, in root on N. side of 14-in. walnut tree; copper nail and washer 811.13

7. FROM POINT NEAR CENTER OF NORTH HALF OF EAST BORDER OF QUADRANGLE WEST ABOUT 3 MILES

(Continued from Coldwater quadrangle; see line no. 1.)

French Mills, 1 mi. SW. of post office, 300 ft. N. of Ed Barry's house, 150 ft. E. of old mill, 30 ft. N. of rd., in ledge; standard tablet stamped "P T Sta No 78 F 1924" 597.222
 Reference mark, 41 ft. N. 45° E. of tablet, in root on E. side of 16-in. red oak tree; copper nail and washer 589.79

SPIRIT LEVELING IN MISSOURI

French Mills, 2.6 mi. SW. of post office, 70 ft. SW. of rd. forks, 20 ft. W. of rd. S. up hollow, in root on E. side of 36-in. hickory tree; copper nail and washer 619.09

French Mills, 3.4 mi. SW. of post office, 0.9 mi. below George Miller's grist mill, 25 ft. S. of rd. at produced center line of lane N. to Henry Miller's house, in root on NW. side of 18-in. locust tree; copper nail and washer 623.42

8. FROM SOUTH BORDER OF QUADRANGLE NORTH TO BRUNOT (by George W. Moore in 1931)
(Continued from Piedmont quadrangle; see line no. 5.)

Patterson, 5.6 mi. N. of, 70 ft. S. of private rd. W., in top of N. end of W. head wall of concrete culvert; chiseled square 613.26

Patterson, 6.6 mi. N. of, on W. side of ravine, at W. edge of rd., in root on E. side of 9-in. oak tree; copper nail and washer 567.66

Patterson, 7.3 mi. N. of, 300 ft. NW. of rd. forks, at W. edge of rd., in root on E. side of white oak tree; copper nail and washer 479.92

Brunot, 1.8 mi. S. of, 7.8 mi. N. of Patterson, on N. concrete abutment of large wooden bridge over Big Creek, in top of W. wing wall; chiseled square 470.72

Brunot, 1.1 mi. S. of, 610 ft. S. of T-rd. E., in top at N. end of W. head wall of concrete culvert; chiseled square 515.24

Brunot, 0.4 mi. N. of crossroads at, in top of W. head wall of concrete culvert; chiseled square 518.96

9. FROM ANNAPOLIS WEST TO WEST BORDER OF QUADRANGLE (by F. C. Lentz in 1936)

Annapolis, 0.5 mi. SW. of, in top of curb rail at SW. corner of concrete bridge; chiseled square 628.17

Annapolis, 1.5 mi. SW. of, at top of hill, 100 ft. SW. of rd. forks, in root on N. side of triple white oak tree; copper nail and washer 862.74

Annapolis, 2.6 mi. SW. of, 420 ft. W. of pile of rocks at cor. secs. 20, 21, 28, and 29, T. 31 N., R. 3 E., 18 ft. S. and 30 ft. E. of T-rd. N., in concrete post; standard tablet stamped "T T 1606 E R A 1935" 681.651

Reference mark, 240 ft. NW. of tablet, in root of 14-in. sycamore tree; copper nail and washer 681.90

Annapolis, 1.5 mi. S. and 1.5 mi. W. of, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 31 N., R. 3 E., 60 ft. E. and 25 ft. N. of T-rd. N., in root on S. side of 12-in. white oak tree; copper nail and washer 971.56

(Continued in Redford quadrangle; see line no. 7.)

TIE BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. C. & G. S. THIRD-ORDER LINE AT ANNAPOLIS

U. S. C. & G. S. B. M. designated "F 139 1935" 617.387

U. S. C. & G. S. B. M. designated "Rv N 146" 611.469

Annapolis, at S. limits of, 220 ft. NE. of Missouri Pacific R. R. water tank, in large boulder; standard tablet stamped "Frim Trav Sta No 64 F 1924 B 38 1925" 629.065

Reference mark, 220 ft. SW. of tablet, in top at NE. corner of concrete base of water tank; chiseled square 628.99

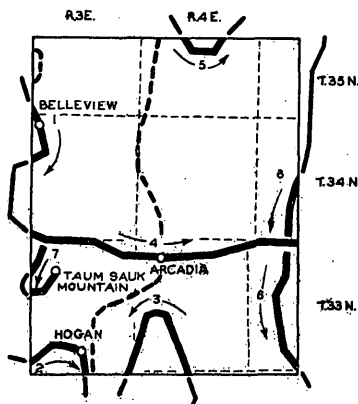
U. S. C. & G. S. B. M. designated "E 139 1935" 633.217

For additional level lines along Missouri Pacific R. R. and State Highway 21, refer to United States Coast and Geodetic Survey second-order lines; Riverside to Williamsville and Ohlman to Glover.

MIDDLEBROOK QUADRANGLE

(Latitude 37°30'-37°45'; longitude 90°30'-90°45')

Iron, Madison, St. Francois, and Washington Counties



1. SOUTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE (by M. J. Harden in 1924)

(Continued from Edgell quadrangle; see line no. 2.)

	Feet
Bellevue, 1.6 mi. N. of, 250 ft. W. of T-rd. W., on N. side of rd., at fence corner, in concrete post; standard tablet stamped "H 1924 No 988"	987.203
Reference mark, 70 ft. S. of T-rd. W., in N. end of E. head wall of concrete culvert; chiseled square	987.56
Bellevue, 1 mi. N. of, in SW. angle of T-rd. W., in S. end of W. head wall of concrete culvert; chiseled square	1,037.13
Bellevue, in front of Range's store, in top of NE. corner of concrete porch; chiseled square	1,043.06
Bellevue, 1 mi. SW. of, 200 ft. W. of farmhouse, on E. side of rd., in root of 24-in. black oak tree; copper nail and washer	1,068.67

(Continued in Edgell quadrangle; see line no. 3.)

2. FROM WEST BORDER OF QUADRANGLE EAST TO HOGAN, THENCE ALONG MISSOURI PACIFIC R. R. TO SOUTH BORDER (levelled twice by W. R. Broadus and F. L. Whaley in 1925)

(Continued from Edgell quadrangle; see line no. 5.)

Pinkley, 5 mi. E. of post office, 1.3 mi. E. of Reynolds-Iron county line, 50 ft. N. of rd., 40 ft. SW. of house, on N. bank of creek, in root on E. side of 24-in. post oak tree; copper nail and washer	996.72
Hogan, 3.3 mi. NW. of, 0.4 mi. W. of John Pinkley's house, 50 ft. W. and 15 ft. N. of crossroads, on top of hill, in root on E. side of 5-in. black oak tree; copper nail and washer	1,352.02
Hogan, 3 mi. NW. of, 500 ft. N. of John Pinkley's house, 20 ft. S. of rd. forks, in root on E. side of 14-in. post oak tree; copper nail and washer	1,268.45
Hogan, 2.5 mi. W. of, 300 ft. SE. of James Pappa's house, 70 ft. SE. of drain, 10 ft. E. of rd., in top of granite ledge; chiseled square	1,220.74
Hogan, 2 mi. W. of, 40 ft. N. of rd. forks, 20 ft. E. of rd., in granite boulder standard tablet stamped "Prim Trav Sta No 69 F 1924 B 35 1925"	1,267.463
Reference mark, 6 ft. SW. of tablet, in root on SW. side of 10-in. black oak tree; copper nail and washer	1,266.32
Hogan, 1 mi. W. of, 15 ft. N. of rd., at junction of old route, at top of hill, in root on E. side of 12-in. black oak tree; copper nail and washer	1,098.32
Hogan, 550 ft. SW. of Missouri Pacific R. R. depot, 500 ft. W. of R. R., 20 ft. S. of E.-W. rd., 5 ft. N. of fence, 170 ft. E. of State Highway 21, in ledge; standard tablet stamped "Prim Trav Sta No 68 F 1924 B 34 1925"	904.627
Reference mark, 204 ft. N. 70° W. of tablet, in top of E. head wall of concrete culvert under highway; chiseled square	904.80

(Continued in Des Arc quadrangle; see line no. 2.)

3. FROM SOUTH BORDER OF QUADRANGLE NORTHWEST TO POINT 3 MILES SOUTHEAST OF ARCADIA, THENCE SOUTHWEST TO SOUTH BORDER (by W. R. Broadus in 1925)

(Continued from Des Arc quadrangle; see line no. 5.)

Arcadia, 6 mi. S. of, in NW. corner of concrete porch of schoolhouse; standard tablet stamped "Prim Trav Sta No 73 F 1924"	851.193
Reference mark, 242 ft. S. 25° E. of tablet, 45 ft. SE. of rd. forks, in root on NW. side of 24-in. post oak tree; copper nail and washer	847.64
Arcadia, 5.3 mi. SE. of, 0.8 mi. NW. of schoolhouse, 150 ft. SW. of rd. at junction of lane to J. A. Smith's house, in root on W. side of 20-in. sugar maple tree; copper nail and washer	879.86
Arcadia, 4.2 mi. SE. of, 25 ft. N. of Marble Creek store, 90 ft. S. of rd. forks, in root on NW. side of 24-in. white oak tree; copper nail and washer	973.35
Arcadia, 3.4 mi. SE. of, 0.4 mi. SE. of schoolhouse, 10 ft. W. of rd. forks, 12 ft. S. of fence corner, in root on NE. side of 10-in. white oak tree; copper nail and washer	977.01
Arcadia, 3 mi. SE. of, 200 ft. E. of rd. forks, 4 ft. W. of NE. corner of schoolhouse, in stone foundation; standard tablet stamped "Prim Trav Sta No 72 F 1924"	1,008.550
Reference mark, 45 ft. N. 40° E. of tablet, in root on NW. side of 24-in. post oak tree; copper nail and washer	1,005.13
Arcadia, 4 mi. SW. of, 1 mi. SW. of school, 30 ft. S. of rd. forks, in root on NW. side of 8-in. tree; copper nail and washer	1,008.71
Arcadia, 4.8 mi. SW. of, 10 ft. NW. of rd. forks, in root on SW. side of 14-in. black oak tree; copper nail and washer	1,063.54
Arcadia, 5.5 mi. SW. of, 2.5 mi. SW. of school, 35 ft. W. of rd. forks, in root on N. side of 16-in. post oak tree; copper nail and washer	1,154.09
Chloride, 4 mi. NE. of, 15 ft. W. of rd., at top of hill, in root on S. side of 26-in. red oak tree; copper nail and washer	1,219.27

(Continued in Des Arc quadrangle; see line no. 6.)

4. FROM MIDDLE OF WEST BORDER OF QUADRANGLE EAST TO ARCADIA, THENCE EAST ALONG STATE HIGHWAY 70 TO EAST BORDER OF QUADRANGLE (by F. C. Lentz in 1935)

(Continued from Edgell quadrangle; see line no. 7.)

T. 34 N., R. 3 E., in SE $\frac{1}{4}$ sec. 32, at crest of hill, 10 ft. SW. of Munger-Ironton road, 9 ft. NW. of 15-in. water oak tree, in concrete post; standard tablet stamped "1 L 1935"	1,378.297
T. 33 N., R. 3 E., in NW $\frac{1}{4}$ sec. 4, 250 ft. S. of A. W. Moyer's house, 10 ft. N. of Munger-Ironton road, in root on S. side of 16-in. water oak tree; copper nail and washer	1,185.68
T. 33 N., R. 3 E., in NE $\frac{1}{4}$ sec. 4, 150 ft. N. of Alfred Fryer's house, 50 ft. S. of Stouts Creek, 25 ft. N. of Munger-Ironton road, in root on S. side of 14-in. hard maple tree; copper nail and washer	1,136.11
T. 33 N., R. 3 E., in NE $\frac{1}{4}$ sec. 3, 70 ft. S. of Munger-Ironton road, in top and 12 ft. S. of N. end of dam across Stouts Creek; standard tablet stamped "2 L 1935"	1,063.175

T. 33 N., R. 3 E., in NE $\frac{1}{4}$ sec. 2, 120 ft. SE. of Jake Spitzmiller's house, 20 ft. N. of Munger-Ironton road, 5 ft. E. of farm entrance, in root on SW. side of 14-in. white oak tree; copper nail and washer 999.08

Arcadia, 1.8 mi. W. of, in NW $\frac{1}{4}$ sec. 6, T. 33 N., R. 4 E., 35 ft. S. and 10 ft. E. of junction of Munger-Ironton and Arcadia roads, in top of E. end of N. pier of steel bridge over Stouts Creek; standard tablet stamped "3 L 1935" 941.756

U. S. C. & G. S. B. M. designated "A 130 1935" 924.365

U. S. C. & G. S. B. M. designated "Rv No 118" 926.146

Arcadia, 1 mi. E. of, along State Highway 70, 500 ft. NW. of Baptist Home, 20 ft. N. of highway, in top of N. head wall of concrete culvert; chiseled square 905.05

Arcadia, 2.5 mi. E. of, along State Highway 70, at NW. corner of concrete bridge over Stouts Creek, in top of curb rail; chiseled square 857.28

Arcadia, 3.5 mi. E. of, along State Highway 70, 175 ft. NW. of Lake Killarney, 300 ft. N. of N. end of rock guard rail, 20 ft. NW. of highway, in top of NW. head wall; chiseled square 828.94

Arcadia, 4 mi. E. of, along State Highway 70, 250 ft. N. of Arcadia Lodge dining room, 20 ft. W. of highway, in head wall of concrete culvert; standard tablet stamped "4 L 1935" 819.069

Reference mark, 200 ft. N. of tablet, in 12-in. water oak tree; copper nail and washer 820.68

Lake Killarney, 1 mi. E. of, along State Highway 70, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 36, T. 34 N., R. 4 E., 200 ft. N. of junction of rd. N., 20 ft. N. of highway, in top of concrete head wall; chiseled square 790.67

T. 34 N., R. 5 E., in SW $\frac{1}{4}$ sec. 31, 85 ft. N. and 45 ft. E. of NE. corner of Roselle School, 30 ft. S. of State Highway 70, in root on N. side of 14-in. white oak tree; copper nail and washer 841.16

T. 34 N., R. 5 E., in SE $\frac{1}{4}$ sec. 31, 60 ft. S. and 20 ft. E. of State Highway 70 at junction of rd. S., 55 ft. E. and 15 ft. N. of NE. corner of a rock store building, in NW. corner of concrete base of gasoline pump; chiseled square 806.84

Ironton, 6 mi. E. of, along State Highway 70, in NW. cor. sec. 4, T. 33 N., R. 5 E., 0.2 mi. W. of bridge over St. Francis River, 120 ft. SE. of residence of F. J. January, 42 ft. N. of highway, 5 ft. S. of wire fence, in concrete post; standard tablet stamped "P T No 7 S 1926" 793.853

Reference mark, 100 ft. W. of tablet, in 12-in. tree; copper nail and washer 788.02

(Continued in Knob Lick quadrangle; see line no. 3.)

5. NEAR CENTER OF NORTH BORDER OF QUADRANGLE

(Continued from Bonne Terre quadrangle; see line no. 6.)

Bismarck, 1.8 mi. SE. of, on Missouri Pacific R. R., 15 ft. W. of track, 45 ft. W. of telegraph pole no. 77-6, in concrete head wall; chiseled square 956.21

(Continued in Bonne Terre quadrangle; see line no. 6.)

6. FROM POINT NEAR CENTER OF EAST BORDER OF QUADRANGLE SOUTH TO SOUTHEAST CORNER

(Continued from Knob Lick quadrangle; see line no. 5.)

T. 34 N., R. 5 E., in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, 65 ft. S. of Brewers Creek School, 25 ft. NE. of rd., in root of 12-in. white oak tree; copper nail and washer 796.28

Brewers Creek, at ford; surface of water Nov. 20, 1935 at 10:30 a. m. 712.5

T. 34 N., R. 5 E., in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, 30 ft. S. of rd. forks, in 30-in. white oak tree; copper nail and washer 769.00

T. 33 N., R. 5 E., in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, 85 ft. N. and 40 ft. E. of rd. corner, in S. side of 36-in. elm tree; copper nail and washer 720.07

T. 33 N., R. 5 E., in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, 200 ft. E. of Rock Creek, 30 ft. SW. of rd., in 12-in. sycamore tree; copper nail and washer 721.88

T. 33 N., R. 5 E., in SW $\frac{1}{4}$ sec. 4, 100 ft. W. of Rock Creek, 2 ft. S. of rail fence; in SE. corner of large field, in root of 14-in. white oak tree; copper nail 769.34

T. 33 N., R. 5 E., in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, 200 ft. W. of house, 125 ft. W. of Rock Creek, 25 ft. W. of rd., 31 ft. N. of 14-in. pin oak tree, in top of granite boulder; standard tablet stamped "7 L 1935" 810.354

Reference mark, 31 ft. S. of tablet, in 14-in. pin oak tree; copper nail and washer 811.04

T. 33 N., R. 5 E., in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, 50 ft. N. and 25 ft. E. of Frank Inman's house, 65 ft. S. of rd., in root of 14-in. wild cherry tree; copper nail and washer 874.88

T. 33 N., R. 5 E., in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, 900 ft. E. of rd., 800 ft. E. of Herman Royer's house, in root of 30-in. white oak tree; copper nail and washer 924.26

T. 33 N., R. 5 E., in SE $\frac{1}{4}$ sec. 29, 50 ft. N. of Little Rock Creek, 5 ft. N. of rail fence, in root on E. side of 16-in. oak tree; copper nail and washer 874.99

T. 33 N., R. 5 E., in NE $\frac{1}{4}$ sec. 33, 5 ft. N. of Little Rock Creek, in root on E. side of 30-in. white oak tree; copper nail and washer 814.77

(Continued in Knob Lick quadrangle but next benchmark established is in Coldwater quadrangle; see line no. 6.)

7. LINE TO DETERMINE ELEVATION OF SUMMIT OF TAUM SAUK MOUNTAIN (by F. C. Lentz in 1937)

T. 33 N., R. 3 E., in NW $\frac{1}{4}$ sec. 5, 40 ft. SE. of dim rd., in root on N. side of 24-in. hickory tree; copper nail and washer 1,527.29

(For balance in Edgchill quadrangle see line no. 8)

T. 33 N., R. 3 E., in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, on low point in saddle between Wildcat and Taum Sauk Mountains, in root on S. side of 12-in. white-oak tree; copper nail and washer 1,509.81

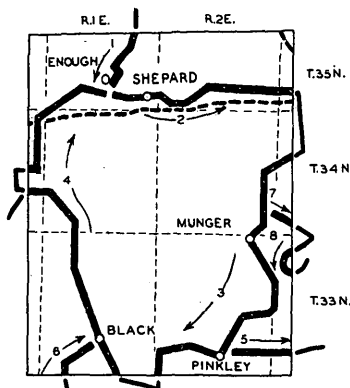
Taum Sauk Mountain, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, T. 33 N., R. 3 W., 550 ft. NW. of and 7 ft. lower than highest point, 450 ft. N. of small clearing on site of old pond or deer lick, 50 ft. E. of old N. S. trail at forks of ridge (W. fork leading to Wildcat Mountain), 30 ft. S. of 10-in. water-oak tree with painted triangle, 25 ft. N. of 8-in. white-oak tree with painted triangle, in top of granite outcrop (only permanent rock available); standard tablet stamped "2 L 1937 1765" 1,764.703

Reference mark, 40 ft. N. of tablet, on highest point of rock outcrop; painted square 1,763.36
 Taum Sauk Mountain; summit (highest point in State) 1,772
 TIE BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD-ORDER LINE AT HOGAN
 Hogan, 550 ft. SW. of Missouri Pacific R. R. depot, 500 ft. W. of R. R., 20 ft. S. of E.-W. rd., 5 ft. N. of fence, 170 ft. E. of State Highway 21, in ledge; standard tablet stamped "Prim Trav Sta No 68 F 1924 B 34 1925" 904.627
 Reference mark, 204 ft. N. 70° W. of tablet, in top of E. head wall of concrete culvert under highway; a chiseled square 904.80
 U. S. C. & G. S. B. M. designated "E 130 1935" 890.877

For additional level lines along Missouri Pacific R. R. and State Highways 21 and 32, refer to United States Coast and Geodetic Survey second-order lines; Riverside to Williamsville and Ste. Genevieve to Licking.

EDGEHILL QUADRANGLE
 (Latitude 37°30'-37°45'; longitude 90°45'-91°)

Iron, Reynolds, and Washington Counties



1. FROM NORTH BORDER OF QUADRANGLE SOUTHWEST TO POINT 2.3 MILES WEST OF SHEPARD POST OFFICE (leveled twice by M. J. Harden in 1924)
 (Continued from Potosi quadrangle; see line no. 3.)

Belgrade, about 5 mi. SW. of, 600 ft. SW. of Matt Koupal's house, 15 ft. E. of	<u>Feet</u>
Big River, in ledge; standard tablet	977.724
Belgrade, about 6 mi. SW. of, 650 ft. N. of Steven's store, in root of 30-in. gum tree; copper nail and washer	1,035.51
Belgrade, about 7.5 mi. SW. of, 70 ft. E. of farmhouse, 70 ft. W. of Big River, in root of 36-in. white oak tree; copper nail and washer	1,064.82

2. FROM POINT NEAR SHEPARD POST OFFICE EAST ALONG COUNTY ROADS AND STATE HIGHWAY 32 TO EAST BORDER OF QUADRANGLE

Belgrade, about 8.2 mi. SW. of, at junction of Big River road with Ironton-Salem road, 27 ft. E. of gate on N. side of rd., inside fence, in concrete post; standard tablet stamped "H 1924 Mo 1121"	1,119.913
Reference mark no. 1, in root of 12-in. white oak tree; copper nail and washer	1,121.20
Reference mark no. 2, in root of 8-in. white oak tree; copper nail and washer	1,122.04
Shepard, 1 mi. W. of post office, 300 ft. N. of small farmhouse, on N. side of rd., in root of 12-in. black oak tree; copper nail and washer	1,177.01
Shepard, 30 ft. E. of post office, near center of rd., in root of 10-in. cedar tree; copper nail and washer	1,179.44
Shepard, 1 mi. E. of post office, on top of hill, in NE. angle of T-rd. N., in concrete post; standard tablet stamped "H 1924 Mo 1370"	1,368.632
Reference mark no. 1, on N. side of rd., in root of 24-in. white oak tree; copper nail and washer	1,370.19
Reference mark no. 2, on N. side of rd., in root of 10-in. black oak tree; copper nail and washer	1,368.59
Shepard, 1.5 mi. E. of post office, on N. side of rd., in root of 20-in. white oak tree; copper nail and washer	1,302.66
Shepard, 2.2 mi. E. of post office, on S. side of rd., in root of 18-in. black oak tree; copper nail and washer	1,244.82
Cedar Grove School, 1.7 mi. SW. of, along State Highway 32, at top of E. end of N. guard wall of concrete culvert; chiseled square	1,016.12
Cedar Grove School, about 0.8 mi. W. of, along State Highway 32, 200 ft. W. of Cedar Creek, in NE. corner of Richard's front yard, in concrete post; standard tablet stamped "H 1924 Mo 973"	972.121

Reference mark, 50 ft. N. of tablet, in top at W. end of S. guard wall of concrete culvert; chiseled square	974.22
Cedar Grove School, 200 ft. SW. of, at NE. corner of, in top of W. end of guard wall of concrete culvert; chiseled square	964.80
Cedar Grove School, 0.5 mi. E. of, along State Highway 32, at NE. corner of rd. N., in root of 30-in. walnut tree; copper nail and washer	970.39
Cedar Grove School, 1 mi. E. of, along State Highway 32, at SE. corner of cross rd., in root of 14-in. elm tree; copper nail and washer	1,049.31
Cedar Grove School, about 2.1 mi. E. of, along State Highway 32, near rd. forks, in top of E. guard wall of concrete culvert; chiseled square	979.19

(Continued in Middlebrook quadrangle; see line no. 1.)

3. FROM EAST BORDER OF QUADRANGLE SOUTH AND SOUTHWEST TO PINKLEY AND SOUTH BORDER
(Continued from Middlebrook quadrangle; see line no. 1.)

Bellevue, 1.5 mi. SW. of, 500 ft. W. of William Moyer's farmhouse, 40 ft. N. of small branch, inside fence, in concrete post; standard tablet stamped "H 1924 Mo 1108"	1,107.360
Reference mark, 280 ft. SW. of tablet, on E. side of rd., in root of 10-in. walnut tree; copper nail and washer	1,111.46
Bellevue, 2.6 mi. SW. of, at SE. corner of rd. forks, in root of 8-in. hickory tree; copper nail and washer	1,160.02
Bellevue, 3.2 mi. SW. of, on E. side of rd. to Munger, in root of 28-in. white oak tree; copper nail and washer	1,240.90
Bellevue, about 4 mi. SW. of, on E. side of rd. to Munger, on top of hill, in root of 8-in. pine tree; copper nail and washer	1,417.68
Munger, 3.0 mi. N. of, along rd. to Bellevue, near foot of steep hill, 70 ft. N. of Mill Creek, on E. side of rd., in root of 18-in. hickory tree; copper nail and washer	1,116.54
Munger, 2.5 mi. N. of, along rd. to Bellevue, 75 ft. E. of Mill Creek, at SW. corner of dim rd. E., in concrete post; standard tablet stamped "H 1924 Mo 1087"	1,085.571
Reference mark, at SE. corner of dim rd. E., in root of 18-in. white oak stump; copper nail and washer	1,085.93
Munger, 1.2 mi. NE. of post office, near center sec. 36, T. 34 N., R. 2 E., 900 ft. SW. of Sawyer School, 50 ft. NW. of rd., 105 ft. N. of 15-in. sycamore tree, in limestone post; aluminum tablet stamped "Prim Trav Sta No 10 1907 Mo 1021"	1,019.904
Reference mark, in NE. corner of T-rd. N., in root of 20-in. post oak tree; copper nail and washer	1,022.11
Munger, 0.8 mi. NE. of, along rd. to Bellevue, at SE. corner of rd. E., in root of 10-in. maple tree; copper nail and washer	995.94
Sawyer's Mill (old site), 1.5 mi. SE. of, along rd. to Valley Sawmill, on N. side of rd., in root of 16-in. elm tree; copper nail and washer	1,033.16
Valley Sawmill, 80 ft. N. of, in root of 10-in. elm tree; copper nail and washer	1,115.80
Valley Sawmill, 1 mi. SE. of, along old log trail to Taum Sauk Creek, on N. side of trail, in root of 18-in. white oak tree; copper nail and washer	1,410.58
Valley Sawmill, 1.5 mi. SE. of, along old log trail to Taum Sauk Creek, on S. side of trail, in granite ledge; standard tablet stamped "H 1924 Mo 1469"	1,467.214
Reference mark no. 1, on S. side of trail, in granite ledge; chiseled square	1,467.36
Reference mark no. 2, on S. side of trail, in root of 8-in. hickory tree; copper nail and washer	1,468.60
Valley Sawmill, 2 mi. SE. of, along old log trail to Taum Sauk Creek, on S. side of trail, in root of 24-in. black oak tree; copper nail and washer	1,364.25
Devil's Toll Gate, 0.2 mi. NE. of, along Taum Sauk Creek road, at NE. corner of T-rd. N., in top of granite ledge; chiseled square	1,141.88
Devil's Toll Gate, 0.5 mi. SW. of, along Taum Sauk Creek road, on E. side of rd., in root of 12-in. black oak tree; copper nail and washer	1,011.50
Devil's Toll Gate, 1 mi. SW. of, along Taum Sauk road, 30 ft. S. of Tom Sauk Creek, on E. side of rd., in root of 8-in. sycamore tree; copper nail and washer	946.95
Pinkley, 4 mi. NE. of post office, along Taum Sauk Creek road, about 0.4 mi. E. of W. cor. secs. 12 and 13, T. 33 N., R. 2 E., 160 ft. S. of F. O. Barlow's house, on S. side of Taum Sauk Creek, 2 ft. above water, in limestone ledge; standard tablet stamped "H 1924 Mo 911"	909.250
Reference mark, 95 ft. SE. of house, in root of 12-in. maple tree; copper nail and washer	913.15
Pinkley, 3.2 mi. NE. of post office, along Taum Sauk Creek road, in NE $\frac{1}{4}$ sec. 14, T. 33 N., R. 2 E., at dim rd. N., on S. side of rd., in root of 14-in. hickory tree; copper nail and washer	880.40
Pinkley, 3 mi. NE. of post office, on W. bank of Taum Sauk Creek, on E. side of rd., opposite vacant farmhouse, in root of 15-in. white oak tree; copper nail and washer	847.95
Pinkley, 2 mi. NE. of post office, along Taum Sauk Creek road, near rd. forks, in root of 6-in. hickory tree; copper nail and washer	797.00
Pinkley, 0.8 mi. NE. of post office, along Taum Sauk Creek rd., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T. 33 N., R. 2 E., in SE. corner of Week's yard, in concrete post; standard tablet stamped "H 1924 Mo 960"	758.474
Reference mark, 280 ft. E. of house, on S. side of rd., in root of 16-in. walnut tree; copper nail and washer	752.57
Pinkley, 500 ft. SW. of post office, near center of NE $\frac{1}{4}$ sec. 33, T. 33 N., R. 2 E., near rd. forks, in root of 6-in. sycamore tree; copper nail and washer	726.97
T. 33 N., R. 2 E., near N. sixteenth cor. between secs. 28 and 29, at rd. forks, in root of 12-in. elm tree; copper nail and washer	742.31
T. 33 N., R. 2 E., near SW. cor. sec. 20, 2.5 mi. NW. of Pinkley, 30 ft. S. of Walker Branch, at rd. forks, in root of 6-in. sycamore tree; copper nail and washer	798.65
T. 33 N., R. 2 E., in SW $\frac{1}{4}$ sec. 30, at top of hill, on N. side of rd., in concrete post; standard tablet stamped "H 1924 Mo 997"	995.018
Reference mark, 20 ft. S. of tablet, in root of 16-in. white oak tree; copper nail and washer	995.12

(Continued in Redford quadrangle; see line no. 1.)

4. FROM SOUTH BORDER OF QUADRANGLE NORTH ALONG WEST BORDER TO ENOUGH
(Continued from Redford quadrangle; see line no. 1.)

T. 33 N., R. 1 E., near center of sec. 34, on W. bank of Long Branch, at rd. forks, in root of 30-in. elm tree; copper nail and washer	733.57
Black, 1 mi. SE. of post office, in SW $\frac{1}{4}$ sec. 27, T. 33 N., R. 1 E., at foot of hill, at rd. forks, in root of 8-in. locust tree; copper nail and washer	747.38
Black, 0.25 mi. W. of cor. secs. 21, 22, 27, and 28, T. 33 N., R. 1 E., 30 ft. W. of spring, in limestone ledge; standard tablet stamped "H 1924 Mo 764"	762.521
Reference mark, 300 ft. SE. of springhouse, in root on S. side of 40-in. burr oak tree; copper nail and washer	753.86
T. 33 N., R. 1 E., in NE $\frac{1}{4}$ sec. 21, near farmhouse, on S. side of rd., in root of 20-in. hard maple tree; copper nail and washer	781.44
T. 33 N., R. 1 E., in SW $\frac{1}{4}$ sec. 16, at SW. corner of T-rd. W., in root of 20-in. hard maple tree; copper nail and washer	825.32
T. 33 N., R. 1 E., near quarter cor. between secs. 8 and 17, near farmhouse on W. side of rd., in concrete post; standard tablet stamped "H 1924 Mo 884"	883.210
Reference mark, 60 ft. SW. of tablet, in root of 20-in. white oak tree; copper nail and washer	883.07
T. 33 N., R. 1 E., in NW $\frac{1}{4}$ sec. 8, at rd. forks, in SE. corner of farmhouse yard, in root of 12-in. white oak tree; copper nail and washer	926.20
T. 33 N., R. 1 E., near center of SW $\frac{1}{4}$ sec. 5, at top of hill, on W. side of rd., in root of 12-in. white oak tree; copper nail and washer	1,150.83
Redmondville, 2 mi. SE. of, at rd. forks, on E. side of rd., in root of 12-in. elm tree; copper nail and washer	842.38
Redmondville, 1.2 mi. SE. of, in SE $\frac{1}{4}$ sec. 32, T. 34 N., R. 1 E., at T-lane to farmhouse, 6 ft. E. of SW. corner of yard, in concrete post; standard tablet stamped "H 1924 Mo 861"	859.329
Reference mark, 35 ft. N. of tablet, in root of 36-in. hard maple tree; copper nail and washer	858.50
Redmondville, in SE $\frac{1}{4}$ sec. 3Q, T. 34 N., R. 1 E., at SW. corner of crossroads, in root of 24-in. walnut tree; copper nail and washer	891.67
Goodland, 0.5 mi. SE. of, at NW. corner of dim rd. W., in root of 8-in. hard maple tree; copper nail and washer	928.02
Goodland, at S. end of T-lane N., in top of limestone post; aluminum tablet stamped "Prim Trav Sta No 14 1907 Mo 948"	948.633
Reference mark, in root of 16-in. walnut tree; copper nail and washer	947.10

(For balance in Boss quadrangle, see line no. 1.)

Goodland, 1.8 mi. N. of, 15 ft. SW. of vacant store building, on E. side of rd., in root of 10-in. elm tree; copper nail and washer	1,027.38
Goodland, 2.5 mi. N. of, at dim rd. to house, on E. side of rd., in root of forked mulberry tree; copper nail and washer	1,055.75
Goodland, about 3.2 mi. N. of, near quarter cor. between secs. 1 and 12, T. 34 N., R. 1 W., at rd. forks, on W. side of rd., inside of fence, in concrete post; standard tablet stamped "H 1924 Mo 1093"	1,092.024
Reference mark, at rd. fork, on E. side of rd., in root of black oak tree; copper nail and washer	1,091.37
Goodland, 4.5 mi. N. of, 400 ft. N. of farmhouse, on E. side of rd., in root of 10-in. elm tree; copper nail and washer	1,179.74
Goodland, 5.5 mi. N. of, near top of hill, at rd. forks, in root of 12-in. black oak tree; copper nail and washer	1,354.15
T. 35 N., R. 1 E., in NE $\frac{1}{4}$ sec. 31, at SE. corner of rd. junction, 70 ft. S. of farmhouse, in concrete post; standard tablet stamped "H 1924 Mo 1221"	1,220.340
Reference mark, 70 ft. SW. of farmhouse, on S. side of rd., in root of 18-in. white oak tree; copper nail and washer	1,220.45
Enough, 35 ft. NE. of post office, near center of rd., in root of 8-in. hickory tree; copper nail and washer	1,188.56
Enough, 0.8 mi. E. of post office, at rd. fork SW. to Redmondville, on N. side of rd., at top of bank, in root of forked white oak tree; copper nail and washer	1,158.02

5. FROM POINT NEAR PINKLEY EAST TO EAST BORDER OF QUADRANGLE (leveled twice by W. R. Broadus and F. L. Whaley in 1925)

Pinkley, 2 mi. E. of post office, 280 ft. E. of house, 15 ft. S. of rd., in root on N. side of 30-in. black oak tree; copper nail and washer	809.84
Pinkley, 3.1 mi. E. of, 300 ft. S. of rd., 60 ft. W. of Henry Swearingin's house, in root on SW. side of 8-in. walnut tree; copper nail and washer	864.04
Lesterville, 7 mi. NE. of, near rd. forks, 40 ft. E. of Iron-Reynolds county line, 15 ft. N. of fence corner, in large granite boulder; standard tablet stamped "Prim Trav Sta No 70 F 1924 B 32 1924"	893.852
Reference mark, 39 ft. S. of tablet, in root on E. side of 12-in. black oak tree; copper nail and washer	895.04

(Continued in Middlebrook quadrangle; see line no. 2.)

6. FROM SOUTH BORDER OF QUADRANGLE NORTH TO BLACK (by George W. Moore in 1931)
(Continued from Redford quadrangle; see line no. 3.)

Black, 2.8 mi. SW. of, along old county rd., in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 33 N., R. 1 E., 40 ft. N. and 20 ft. W. of rd. forks, in root on E. side of 15-in. oak tree; copper nail and washer	908.06
Black, 1.7 mi. SW. of, along old county rd., in NW $\frac{1}{4}$ sec. 33, T. 33 N., R. 1 E., 40 ft. S. of ford, at W. end of gate, in root on NW. side of 20-in. oak tree; copper nail and washer	820.25

Black, 1 mi. SW. of, along old county rd., in SE $\frac{1}{4}$ sec. 28, T. 33 N., R. 1 E., 130 ft. SW. of ford, 20 ft. S. of rd., in root on NW. side of 22-in. oak tree; copper nail and washer 773.10
 Black, 0.6 mi. SW. of, along old county rd., in NW $\frac{1}{4}$ sec. 27, T. 33 N., R. 1 E., 40 ft. S. and 30 ft. E. of rd. forks, on W. bank of creek, in root on N. side of 26-in. oak tree; copper nail and washer 753.51

7. FROM MUNGER EAST TO EAST BORDER OF QUADRANGLE (by F. C. Lentz in 1935)

Munger, 1.2 mi. NE. of post office, near center sec. 36, T. 34 N., R. 2 E., 900 ft. SW. of Sawyer School, 50 ft. NW. of rd., 105 ft. N. of 15-in. sycamore tree; in limestone post; aluminum tablet stamped "Prim Trav Sta No 10 1907 Mo 1021" 1,019.904
 Reference mark, 900 ft. NE. of tablet, in SW. corner of second step of Sawyer School; chiseled square 1,024.80
 Munger, 2 mi. NE. of post office, in NW $\frac{1}{4}$ sec. 31, T. 34 N., R. 3 E., 40 ft. NW. of East Fork of Black River, 15 ft. S. of Munger-Graniteville road, in root on N. side of 24-in. white oak tree; copper nail and washer 1,048.86
 Munger, 3.5 mi. E. of post office, in SE $\frac{1}{4}$ sec. 31, T. 34 N., R. 3 E., 10 ft. E. of rd., in root on E. side of 14-in. hickory tree; copper nail and washer 1,127.80

(Continued in Middlebrook quadrangle; see line no. 4.)

8. LINE TO DETERMINE ELEVATION OF SUMMIT OF WILDCAT MOUNTAIN (Continued from Middlebrook quadrangle; see line no. 7.)

T. 33 N., R. 3 E., in NE $\frac{1}{4}$ sec. 6, 5 ft. W. of trail, in root on SW. side of 12-in. white oak tree; copper nail and washer 1,652.56
 T. 33 N., R. 3 E., in SE $\frac{1}{4}$ sec. 6, on highest point of Wildcat Mountain, 16 ft. N. of black oak stump, 48 ft. NE. of 15-in. white oak tree; in concrete post; standard tablet stamped "1 L 1937" 1,745.290
 Reference mark no. 1, 48 ft. SW. of tablet, in root on W. side of 15-in. white oak tree; copper nail and washer 1,744.67
 Reference mark no. 2, 22 ft. E. of tablet, on highest point of large boulder; painted square 1,757.24

(Continued in Middlebrook quadrangle; see line no. 7.)

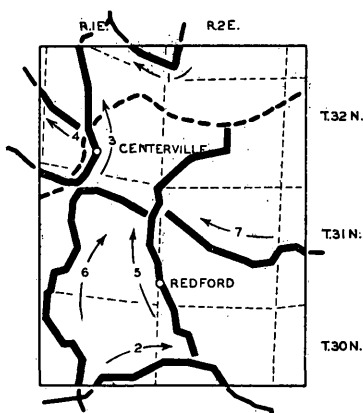
TIE AT BIXBY BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD ORDER LINE (by H. W. Gross, Jr., in 1936)

U. S. C. & G. S. B. M. designated "Z 55 1934" 1,360.286
 Maxwells Mill, 0.2 mi. SE. of, near center NE $\frac{1}{4}$ sec. 31, T. 35 N., R. 1 E., 30 ft. W. and 25 ft. S. of abandoned rd. S., in concrete post; standard tablet stamped "H 1924 Mo 1221" 1,220.340

For an additional level line along State Highways 32 and 21, refer to United States Coast and Geodetic Survey second-order line, Ste. Genevieve to Licking.

REDFORD QUADRANGLE (Latitude 37°15'-37°30'; longitude 90°45'-91°0')

Iron and Reynolds County



1. NEAR CENTER OF NORTH BORDER OF QUADRANGLE (by M. J. Harden in 1924) (Continued from Edgemoor quadrangle; see line no. 3.)

T. 32 N., R. 2 E., near center of NW $\frac{1}{4}$ sec. 31, on E. side of rd., in root of 10-in. black oak tree; copper nail and washer 859.73
 Tps. 32 and 33 N., Rs. 1 and 2 E., 800 ft. SW. of cor. of, 80 ft. NE. of T-rd., in sandstone post; aluminum tablet stamped "Prim Trav Sta No 12 1907 Mo 762 H" 760.912

Reference mark, 700 ft. SW. of tablet, 180 ft. SW. of T-rd., in root of 30-in. white oak tree; copper nail and washer 760.58
 Dobbins School, 0.3 mi. NW. of, near S. sixteenth cor. sec. 1, T. 32 N., R. 1 E., NW. of rd. forks, in root of 12-in. sycamore tree; copper nail and washer 714.77
 Dobbins School, 1.3 mi. NW. of, on top of hill, on E. side of rd., in root of 30-in. white oak tree; copper nail and washer 755.45
 T. 32 N., R. 1 E., near NE. cor. of NW $\frac{1}{4}$ sec. 2, in NE. corner of Alvin Goggins' yard, in concrete post; standard tablet stamped "H 1924 Mo 735" 733.031
 Reference mark, 40 ft. E. of tablet, in root of 12-in. walnut tree; copper nail and washer 732.18

(Continued in Edgehill quadrangle; see line no. 4.)

2. EAST ALONG SOUTH BORDER OF QUADRANGLE (by F. L. Whaley in 1925)
 (Continued from Ruble quadrangle; see line no. 2.)

Ellington, 2.5 mi. NE. of, N. of rd. at mouth of Road Hollow, 200 ft. W. of house, 5 ft. N. of fence, in limestone rock; standard tablet stamped "Prim Trav Sta No 90 F 1924" 627.804
 Reference mark, 163 ft. S. 40° E. of tablet, in root on NE. side of 18-in. post oak tree; copper nail and washer 626.66
 Ellington, 3.6 mi. NE. of, in SW. cor. sec. 23, T. 30 N., R. 1 E., on S. side of rd. at fence corner, in root of 10-in. white oak tree; copper nail and washer 707.57
 Ellington, 5.8 mi. NE. of, near NW. cor. sec. 24, T. 30 N., R. 1 E., on N. side of rd., in root of 8-in. black oak tree; copper nail and washer 811.09
 Ellington, 6.8 mi. NE. of, near E. cor. sec. 13 and 24, T. 30 N., R. 1 E., 3 ft. N. of rd., in root of 10-in. hickory tree; copper nail and washer 773.86
 Redford, 3 mi. SE. of, 30 ft. N. of rd. at mouth of Carpenter Hollow, 70 ft. W. of Sinking Creek, in ledge; standard tablet stamped "Prim Trav Sta No 89 F 1924 W 1925" (reported destroyed) 623.551
 Reference mark, 63 ft. SE. of tablet, in root of 10-in. sycamore tree; copper nail and washer 622.49
 Redford, 4 mi. SE. of, on W. side of rd., 4 ft. N. of corner of Edgar Johnson's yard, in root of 24-in. white oak tree; copper nail and washer 614.70
 Redford, 5 mi. SE. of, near center sec. 21, T. 30 N., R. 2 E., 100 ft. N. of ford, 3 ft. E. of rd., in root of 18-in. black oak tree; copper nail and washer 589.04
 Redford, 5.5 mi. SE. of, at SW. corner of rd. forks, in root of 18-in. black oak tree; copper nail and washer 575.08
 Redford, 6.2 mi. SE. of, 21 ft. NE. of rd. forks, on hillside N. of rd., 4 ft. NW. of blazed oak tree, in limestone ledge; standard tablet stamped "Prim Trav Sta No 88 F 1924 W 1925" 573.963
 Reference mark, 171 ft. S. 52° W. of tablet, at NW. corner of rd. forks, in root of 18-in. buckeye tree; copper nail and washer 566.66

(Continued in Ruble quadrangle; see line no. 3.)

3. FROM WEST BORDER OF QUADRANGLE EAST AND NORTH TO CENTERVILLE, THENCE NORTH TO NORTH BORDER (by George W. Moore in 1931)
 (Continued from Corridon quadrangle; see line no. 2.)

T. 31 N., R. 1 W., in E $\frac{1}{2}$ sec. 1, 60 ft. SW. of ford, 12 ft. NW. of rd., in root on SE. side of 30-in. oak tree; copper nail and washer 928.61
 Centerville, 1.8 mi. SW. of, along Brooks Hollow Road, near N. quarter cor. sec. 6, T. 31 N., R. 1 E., 90 ft. S. and 20 ft. W. from rd. forks, 18 ft. NE. of gate, in fence line, in root on S. side of 13-in. oak tree; copper nail and washer 859.80
 Centerville, 0.9 mi. SW. of, along Brooks Hollow Road, in NW $\frac{1}{4}$ sec. 32, T. 32 N., R. 1 E., 40 ft. NW. of rd. forks, 90 ft. NW. of gates, in root on SE. side of 20-in. oak tree; copper nail and washer 792.70
 Centerville, in courthouse yard, 90 ft. E. of E. entrance to courthouse, in SW. corner of concrete platform of well; chiseled square 742.80
 Centerville, 0.8 mi. N. of, along State Highway 21, in NE $\frac{1}{4}$ sec. 29, T. 32 N., R. 1 E., in S. abutment of concrete highway bridge over West Fork, in top of W. parapet wall; standard tablet stamped "139 M 1931" 749.119
 Reference mark, 25 ft. E. of tablet, on S. abutment of concrete bridge, in top of E. parapet wall; chiseled square 748.51
 Centerville, 1.2 mi. N. of, along State Highway 21, in SE $\frac{1}{4}$ sec. 20, T. 32 N., R. 1 E., 55 ft. N. of highway, in N. head wall of concrete culvert under rd. W.; chiseled square 754.17
 Centerville, 1.8 mi. NW. of, near center of W $\frac{1}{2}$ sec. 20, T. 32 N., R. 1 E., 30 ft. N. and 10 ft. W. from rd. forks, in E. bank of creek near ford, in root on SE. side of 15-in. sycamore tree; copper nail and washer 749.68
 Centerville, 2.5 mi. N. of, along old county rd., near center of S $\frac{1}{2}$ sec. 17, T. 32 N., R. 1 E., 5 ft. W. of rd., in root 10 ft. E. of 24-in. oak tree; copper nail and washer 794.29
 Centerville, 3.1 mi. N. of, along county rd., in NE $\frac{1}{4}$ sec. 17, T. 32 N., R. 1 E., 40 ft. NE. of rd. forks, in root on NE. side of 24-in. oak tree; copper nail and washer 835.22
 Centerville, 3.8 mi. N. of, along old county rd., near center of E $\frac{1}{2}$ sec. 8, T. 32 N., R. 1 E., 75 ft. N. of rd. forks, in root on SW. side of 15-in. oak tree; copper nail and washer 925.81
 Centerville, 4.7 mi. N. of, along old county rd., near center of S $\frac{1}{2}$ sec. 5, T. 32 N., R. 1 E., 3.8 mi. SW. of Black, on top of divide, 92 ft. E. of rd., near center of triangle formed by three blazed trees, in top of large sandstone boulder; standard tablet stamped "110 M 1930" 1,235.474
 Reference mark, 24 ft. N. and 67 ft. W. of tablet, 30 ft. E. of rd., in root on NW. side of 16-in. oak tree; copper nail and washer 1,226.90

(Continued in Edgehill quadrangle; see line no. 6.)

4. FROM POINT 2.5 MILES NORTH OF CENTERTVILLE NORTHWEST TO WEST BORDER OF QUADRANGLE
(by H. W. Gross, Jr., in 1936)

Centerville, 2.5 mi. NW. of, on rd. to West Fork, 1.3 mi. NW. of State Highway 21, 15 ft. S. and 35 ft. W. of junction of Bee Fork road, in root on W. side of 16-in. walnut tree; copper nail and washer	758.93
Top of hill, 15 ft. N. of rd., in root on S. side of 18-in. black oak tree; crossed nails	822.5
Centerville, 3.1 mi. NW. of, on rd. to West Fork, 25 ft. W. and 15 ft. S. of rd. forks, on N. bank of West Fork, near ford, in root on NE. side of twin 8-in. sycamore tree; copper nail and washer	757.51
T. 32 N., R. 1 W., in NE $\frac{1}{4}$ sec. 24, 55 ft. S. and 3 ft. W. of S. corner of J. C. Laramore's house, 10 ft. E. of rd. to West Fork, in concrete post; standard tablet stamped "T T 370 C W A 1934"	786.734
W. side of West Fork at ford, 12 ft. E. of rd., in root on E. side of 18-in. sycamore tree; crossed nails	771.7
Rd. forks, in center of triangle, in root on S. side of 11-in. sycamore tree; crossed nails	780.4

(Continued in Corridor quadrangle; see line no. 5.)

5. NORTH THROUGH CENTER OF QUADRANGLE (by F. C. Lentz in 1936)

Redford, 6 mi. SE. of, 3 mi. W. of Riverside School, 200 ft. W. of rd., in concrete post; U. S. C. E. tablet stamped "Memphis Engineering District Trav Sta No 1-13"	568.411
Redford, 5 mi. SE. of, 1.2 mi. S. of schoolhouse, 100 ft. SE. of rd. forks, 100 ft. NW. of Sinking Creek, in root on NW. side of 12-in. sycamore tree; copper nail and washer	582.33
T. 30 N., R. 2 E., in NW $\frac{1}{4}$ sec. 21, in top of S. end of first step to schoolhouse; chiseled square	610.75
T. 30 N., R. 2 E., in NE $\frac{1}{4}$ sec. 20, about 0.3 mi. N. of schoolhouse, 35 ft. NE. of farmhouse, 20 ft. W. of rd., 10 ft. N. of picket fence, in root on E. side of 36-in. white oak tree; copper nail and washer	614.70
Redford, 3 mi. SE. of, at mouth of Carpenter Hollow, 150 ft. W. of Sinking Creek, 45 ft. E. of rd., in root on N. side of twin sugar maple tree; copper nail and washer	626.05
T. 30 N., R. 2 E., near center sec. 7, 275 ft. E. of Price's house, 50 ft. W. of Sinking Creek, 10 ft. E. of rd., in root on E. side of 26-in. mulberry tree; copper nail and washer	643.52
T. 30 N., R. 2 E., in NE $\frac{1}{4}$ sec. 6, 80 ft. W. of Obe Neal's house, 20 ft. E. of rd. forks, in root on N. side of 26-in. gum tree; copper nail and washer	664.67
Low water bridge over Sinking Creek, 40 ft. N. of, in root on E. side of 10-in. maple tree; nail	662.5
Redford, 1.2 mi. E. of, 100 ft. W. of house, 25 ft. E. of rd., in root on W. side of 30-in. black oak tree; copper nail and washer	675.41
Redford, 200 ft. S. of J. H. Moffett's store, 30 ft. W. of rd., in limestone ledge; standard tablet stamped "Prim Trav Sta No 91 F 1924"	695.497
Redford, 1 mi. N. of, 450 ft. W. of Richard Barnes' house, 400 ft. W. of rd., in root on N. side of 40-in. white oak tree; copper nail and washer	749.25
Redford, 2.2 mi. N. of, 100 ft. SE. of SE. corner of Harrison Valley School, 100 ft. E. of rd., in root on S. side of 26-in. white oak tree; copper nail and washer	783.56
Redford, 3.2 mi. N. of, 0.2 mi. E. of J. C. Harrison's house, 20 ft. S. of rd., in ledge; standard tablet stamped "Prim Trav Sta No 92 F 1924"	839.189
Redford, 4.2 mi. N. of, 150 ft. N. of board fence at NE. corner of large field, 10 ft. W. of rd., in root on E. side of 13-in. white oak tree; copper nail and washer	889.35
T. 31 N., R. 1 E., in NW $\frac{1}{4}$ sec. 12, at top of ridge, 10 ft. E. of rd., in root on W. side of 36-in. white oak tree; copper nail and washer	1,022.30
T. 31 N., R. 2 E., in NW $\frac{1}{4}$ sec. 6, 500 ft. E. of Charles Reed mill place, 50 ft. S. and 25 ft. W. of T-rd. W., in root on E. side of 15-in. white oak tree; copper nail and washer	857.03
Lesterville, 5.5 mi. SW. of, 500 ft. SE. of house, 20 ft. SE. of rd., in limestone boulder; standard tablet stamped "Prim Trav Sta No 83 F 1924"	763.907
Lesterville, 4 mi. SW. of, in Paola Valley, 700 ft. W. of Paola School, 50 ft. W. of entrance to G. O. Adams' farm, 15 ft. S. of rd., in root on E. side of 48-in. elm tree; copper nail and washer	698.30
Lesterville, 3 mi. SE. of, 120 ft. W. of rd. fork up Paola Hollow, 40 ft. NW. of rd., at foot of bluff, in limestone ledge; standard tablet stamped "Prim Trav Sta No 94 F 1924"	677.376
Reference mark, 100 ft. S. of tablet, in root on N. side of 12-in. oak tree; copper nail and washer	665.63
Lesterville, 2 mi. SE. of, 40 ft. E. of entrance to Black River Lodge, in concrete wing wall of bridge over Black River; chiseled square	662.16
U. S. C. & G. S. B. M. designated "G 116 1935"	680.228
Lesterville, 1 ft. W. of W. end of step to A. G. Shry's store, in concrete porch; standard tablet stamped "Prim Trav Sta No 95 F 1924"	711.563
U. S. C. & G. S. B. M. designated "F 116 1935"	723.319

6. FROM SOUTH BORDER OF QUADRANGLE NORTH ALONG WEST BORDER TO STATE HIGHWAY 72, THENCE SOUTHEAST TO POINT NEAR CENTER

(Continued from Ruble quadrangle; see line no. 7.)

Ellington, 1.7 mi. N. of, in Dry Valley, 35 ft. SW. of rd. forks, in 12-in. white oak tree; copper nail and washer	683.32
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Ellington, 2.8 mi. N. of, in NW $\frac{1}{4}$ sec. 20, T. 30 N., R. 1 E., in Dry Valley, 15 ft. NW. of old State Highway 21, in root of 26-in. white oak tree; copper nail and washer	741.64
Ellington, about 3.6 mi. N. of, in SW $\frac{1}{4}$ sec. 17, T. 30 N., R. 1 E., in Dry Valley, 30 ft. S. of rd., in root of 24-in. hickory tree; copper nail and washer	765.90
Ellington, about 4.8 mi. N. of, in NW $\frac{1}{4}$ sec. 18, T. 30 N., R. 1 E., in Dry Valley, 50 ft. NE. of old State Highway 21, in root of 30-in. white oak tree; copper nail and washer	795.90
Ellington, about 5.5 mi. N. of, in SW $\frac{1}{4}$ sec. 7, T. 30 N., R. 1 E., 120 ft. W. of rd.; 30 ft. N. and 40 ft. E. of NW. corner of C. E. Stout's house, in sandstone post; standard tablet stamped "17 L 1936"	806.722
Ellington, 6.8 mi. N. of, in Dry Valley, 1 mi. S. of Upper Dry Valley School, 25 ft. NE. of old State Highway 21, in root of 12-in. white oak tree; copper nail and washer	844.62
Ellington, about 7.8 mi. N. of, in NE $\frac{1}{4}$ sec. 1, T. 30 N., R. 1 W., on old State Highway 21, 40 ft. S. of SE. corner of Dry Valley Church, 25 ft. W. of rd., in root of 40-in. black oak tree; copper nail and washer	867.32
Rd. fork NW., in root of 14-in. black oak tree; copper nail and washer	883.1
Ellington, 9 mi. N. of, in Dry Valley, 1 mi. N. of Upper Dry Valley School, 15 ft. NW. of rd., in root on SE. side of 14-in. white oak tree; copper nail and washer	919.09
Ellington, 8.3 mi. N. of, along State Highway 21, 15 ft. N. and 90 ft. W. of highway at rd. W., in root of 12-in. white oak tree; copper nail and washer	1,087.12
Woods rd. SE., in top of masonry head wall; chiseled square	1,054.0
Ellington, 9.2 mi. N. of, along State Highway 21, 25 ft. W. of highway, in top of head wall of concrete culvert; chiseled square	942.98
SE. corner of concrete bridge; chiseled square	837.8
T-rd. W., in top of masonry head wall; chiseled square	836.8
Ellington, 12.2 mi. N. of, along old State Highway 21, 0.7 mi. W. of new State Highway 21, 100 ft. W. of Sinking Creek, 30 ft. NW. of rd., in root of 30-in. white oak tree; copper nail and washer	822.74
T-rd. W., in root of 24-in. black oak tree; nail	839.0
Reynolds, 8.1 mi. E. and 2 mi. S. of, 2 mi. S. of State Highway 72, in Sinking Creek Valley, 15 ft. W. of rd., in 36-in. white oak tree; copper nail and washer	860.74
Reynolds, 8.1 mi. E. and 1 mi. S. of, 1 mi. S. of State Highway 21, 15 ft. E. of T-rd. W., in root on W. side of 30-in. white oak tree; copper nail and washer	900.41
Rd. fork SW., 35 ft. S. of State Highway 72, in root of 14-in. black oak tree; copper nail and washer	1,109.9
U. S. C. & G. S. B. M. designated "W 115 1935"	1,113.206
Reference mark, 540 ft. E. of tablet, in root on N. side of 14-in. black oak tree; copper nail and washer	1,109.94
U. S. C. & G. S. B. M. designated "X 115 1935"	1,138.387
Centerville, 2.8 mi. S. of, 10 ft. N. and 30 ft. E. of junction of State Highways 21 and 72, in sandstone boulder; standard tablet stamped "T 52 B 1931"	1,139.266
Reference mark, 250 ft. S. of tablet, in root of 12-in. black oak tree; copper nail and washer	1,131.36
Dm rd. SW., in root on E. side of 16-in. black oak tree; nail	1,141.6
Centerville, 3.8 mi. S. of, along State Highway 21, 30 ft. S. and 30 ft. W. of highway at rd. E., in root on E. side of 16-in. white oak tree; copper nail and washer	1,147.37
Redford, 4.6 mi. N. and 1 mi. W. of, 50 ft. N. of curve in rd., 15 ft. W. of fence corner, in fence line, in root of 12-in. black oak tree; copper nail and washer	975.81
Redford, 4.6 mi. N. of, 1.3 mi. N. of J. C. Harrison's house, 10 ft. N. of rd., in root on S. side of 15-in. black oak tree; copper nail and washer	920.61
Rd. fork NE., in root of 30-in. white oak tree; copper nail and washer	851.4
Redford, 3.2 mi. N. of, 0.2 mi. E. of J. C. Harrison's house, 20 ft. S. of rd., in ledge; standard tablet stamped "Prim Trav Sta No 92 F 1924"	839.189

7. FROM CENTER OF EAST BORDER OF QUADRANGLE WEST TO POINT NEAR MIDDLE
(Continued from Des Arc quadrangle; see line no. 9.)

Rd. forks, in root of twin, black oak tree; nail	865.2
Foot of hill, 50 ft. E. of rd., in root on S. side of 30-in. white oak tree; nail	748.8
Annapolis, 2 mi. S. and 2.5 mi. W. of, near center sec. 19, T. 31 N., R. 3 E., 50 ft. E. of a gate, 25 ft. N. of rd., in root on S. side of 14-in. white oak tree; copper nail and washer	641.59
Annapolis, 3 mi. W. and 2 mi. S. of, in SW $\frac{1}{4}$ sec. 19, T. 31 N., R. 3 E., 15 ft. S. of rd. forks, 5 ft. N. of triangular-blazed 18-in. water oak tree, in concrete post; standard tablet stamped "T T 1605 E R A 1935"	596.891
Annapolis, 4 mi. W. and 2 mi. S. of, 350 ft. W. of J. H. Ridder's house, 300 ft. N. of rd., in root on S. side of 38-in. sugar maple tree; copper nail and washer	588.57
SW. corner of large field, 100 ft. N. of river, in root on E. side of 24-in. white oak tree; copper nail and washer	594.0
Black River, at mouth of Mayberry Hollow; surface of water February 24, 1936 at 3:30 p. m.	575.9
Redford, 6 mi. E. and 2 mi. N. of, near mouth of Mayberry Hollow, 350 ft. SW. of Black River, 25 ft. N. of dm rd., in root on N. side of 12-in. sycamore tree; copper nail and washer	583.07
Redford, 5 mi. E. and 2 mi. N. of, in Mayberry Valley, 125 ft. SW. of Mayberry School, 10 ft. S. of rd., in root on S. side of 15-in. gum tree; copper nail and washer	629.19
Redford, 4 mi. E. and 2 mi. N. of, in Mayberry Valley, 1 mi. W. of Mayberry School, 15 ft. N. of rd., in root on N. side of 12-in. sycamore tree; copper nail and washer	648.39
Redford, 3.5 mi. E. and 2 mi. N. of, in NE $\frac{1}{4}$ sec. 28, T. 31 N., R. 2 E., 37 ft. S. of rd. forks, 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 1604 E R A 1935"	679.874

Reference mark, 300 ft. N. of tablet, in root of 12-in. white oak tree; copper nail and washer	682.92
Redford, 3 mi. E. and 2.5 mi. N. of, in Wet Hollow, 10 ft. SW. of rd., in root on NE. side of 24-in. black oak tree; copper nail and washer	753.66
Redford, about 2.5 mi. N. and 2.5 mi. E. of, in NE $\frac{1}{4}$ sec. 20, T. 31 N., R. 2 E., in Wet Hollow, 10 ft. NE. of rd., in root on N. side of 16-in. black oak tree; copper nail and washer	849.05
Redford, 3.2 mi. N. and 1.5 mi. E. of, in SE $\frac{1}{4}$ sec. 18, T. 31 N., R. 2 E., on top of ridge, 15 ft. W. of crossroads, 35 ft. W. of triangular-blazed 10-in. white oak tree, in concrete post; standard tablet stamped "T T 1603 E R A 1935"	1,089.983
Redford, 2.2 mi. N. and 1.5 mi. E. of, 1.5 mi. E. of Harrison Valley School, 50 ft. SW. of rd. forks, in root on S. side of 24-in. white oak tree; copper nail and washer	911.66
Redford, 2.2 mi. N. and 0.6 mi. E. of, 0.6 mi. E. of Harrison Valley School, 200 ft. NE. of W. S. Hinch's house, 30 ft. E. of rd., in root on E. side of 30-in. white oak tree; copper nail and washer	837.50

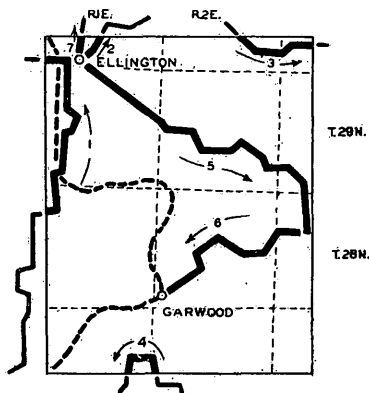
TIE BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD-ORDER LINE AT JUNCTION OF STATE HIGHWAYS 21 AND 49, THREE MILES NORTHWEST OF LESTERVILLE

T. 32 N., R. 1 E., near NE. cor. of NW $\frac{1}{4}$ sec. 2, in NE. corner of Alvin Giggins' yard, in concrete post; standard tablet stamped "H 1924 Mo 735"	733.031
Reference mark, 40 ft. E. of tablet, in root of 12-in. walnut tree; copper nail and washer	732.18
U. S. C. & G. S. B. M. designated "D 116 1935"	710.304

For an additional level line along State Highway 21, refer to United States Coast and Geodetic Survey second-order line, Ohlman to Glover.

RUBLE QUADRANGLE
(Latitude 37°-37°15'; longitude 90°45'-91°)

Carter, Reynolds, and Wayne Counties



1. FROM POINT NEAR CENTER OF WEST BORDER OF QUADRANGLE NORTH TO ELLINGTON, THENCE WEST TO WEST BORDER (by M. J. Harden in 1924).
(Continued from Cardareva quadrangle; see line no. 4.)

	Feet
Old sawmill, 800 ft. N. of, about 500 ft. S. of cemetery, 40 ft. S. of T-rd. E., in stone post; standard tablet stamped "Prim Trav Sta No 40 F 1924 Mo 635"	634.907
Reference mark, 800 ft. N. of old sawmill, at T-rd. E., in root of forked burr oak tree; copper nail and washer	633.86
Pine Valley School, 2 mi. S. of, on E. side of rd., in root of 10-in. white oak tree; copper nail and washer	699.24
Pine Valley School, 1.3 mi. S. of, at dim rd. E., 16 ft. N. of Christin's yard, in root of 14-in. persimmon tree; copper nail and washer	689.63
Pine Valley School, 800 ft. S. of, 80 ft. SW. of rd. forks, in large rock; standard tablet stamped "Prim Trav Sta No 41 F 1924 Mo 753"	752.838
Reference mark, 35 ft. SW. of tablet, in root of 12-in. white oak tree; copper nail and washer	752.43
Cyrus Smith's house, 0.6 mi. N. of, 60 ft. S. of State Highway 21 at old county rd., in root of 10-in. black oak tree; copper nail and washer	957.20
Cyrus Smith's house, 1.5 mi. N. of, SW. of dim rd. W., in root of 6-in. white oak tree; copper nail and washer	917.12
Crossroads, in root of 6-in. black oak tree; copper nail and washer	924.00
Ellington, 6 mi. S. of, 150 ft. S. of Missouri Southern R. R. at rd. crossing, in concrete culvert; standard tablet stamped "Prim Trav Sta No 42 F 1924 Mo 909"	908.705
Reference mark, 50 ft. W. of crossing, in root of 60-in. pine tree; copper nail and washer	908.96
West Doubling Spur, 100 ft. SE. of, on E. side of Missouri Southern R. R., in root of 20-in. white oak tree; copper nail and washer	945.57
West Doubling Spur, 0.4 mi. NE. of, 150 ft. SW. of Missouri Southern R. R. at rd. crossing, in root of 20-in. white oak tree; copper nail and washer	894.69

Missouri Southern R. R. at rd. crossing; top of W. rail	838.2
Ellington, 3 mi. S. of, 10 ft. N. and 20 ft. W. of Missouri Southern R. R. at rd. crossing, in concrete culvert; standard tablet stamped "Prim Trav Sta No 43 F 1924 Mo 801"	800.930
Reference mark, 4 ft. E. of R. R. track, in top of N. guard wall of concrete culvert; chiseled square	802.04
Ellington, 2 mi. S. of, 15 ft. E. of Missouri Southern R. R. at rd. crossing, in forked wild cherry tree, 12 in. above ground; copper nail and washer	763.45
Ellington, 1.1 mi. S. of, in top of abutment at NE. corner of Missouri Southern R. R. bridge; copper nail and washer	703.27
Ellington, in concrete porch of J. F. Shy's store; standard tablet stamped "Prim Trav Sta No 44 F 1924 Mo 667"	666.757
Ellington, 210 ft. S. and 600 ft. W. of Missouri Southern R. R. station, 20 ft. S. of public rd.; iron post stamped "Prim Trav Sta No 56 1913 Mo 675"	679.844
Note.—Above described monument moved 15 ft. S. of above description. Elevation as given is correct.	
Ellington, 1 mi. W. of, near rd. forks, 60 ft. S. of rd., in root of forked walnut tree; copper nail and washer	679.56
Ellington, 1.6 mi. W. of, opposite T-rd. S., in root of 14-in. white oak tree; copper nail and washer	706.33

(Continued in Cardareva quadrangle; see line no. 6.)

2. FROM ELLINGTON NORTHEAST TO NORTH BORDER OF QUADRANGLE (by W. R. Broadus in 1925)

Ellington, 1.2 mi. NE. of, 770 ft. W. of rd. junction, 10 ft. S. of rd., at mouth of ravine, on bank of creek, in root on S. side of 7-in. white oak tree; copper nail and washer	645.32
Ellington, 2.3 mi. NE. of, 90 ft. S. of H. E. Helvey's house, 20 ft. S. of rd., in root on S. side of 14-in. walnut tree; copper nail and washer	647.88

(Continued in Redford quadrangle; see line no. 2.)

3. IN NORTHEAST CORNER OF QUADRANGLE (by F. L. Whaley in 1925)

(Continued from Redford quadrangle; see line no. 2.)

Redford, 7.5 mi. SE. of, near SW. cor. sec. 26, T. 30 N., R. 2 E., about 60 ft. S. of Mr. Johnson's house, on E. side of rd., in root of 14-in. black oak tree; copper nail and washer	596.03
Riverside School, 1.7 mi. W. of, on S. side of rd. opposite T-rd. N.; on top of large limestone boulder; painted circle	542.50
Riverside School, 1 mi. SW. of, SW. of rd. forks, 6 ft. S. of rd., in root of 40-in. elm tree; copper nail and washer	523.25
Riverside School, 500 ft. N. of, 200 ft. E. of T-rd. W., 130 ft. NE. of house, in top of limestone ledge; standard tablet stamped "Prim Trav Sta No 87 F 1924 W 1925"	561.265
Reference mark, 92 ft. N. 40° W. of tablet, 3 ft. E. of rd., in root of 36-in. walnut tree; copper nail and washer	533.61
Riverside School, 1 mi. E. of, 100 ft. W. of dim rd. junction, 100 ft. E. of house, on N. side of rd., in root of forked white oak tree; copper nail and washer	573.13

(Continued in Piedmont quadrangle; see line no. 2.)

4. NEAR CENTER OF SOUTH BORDER OF QUADRANGLE (by L. V. Johnson in 1932)

(Continued from Grandin quadrangle; see line no. 6.)

U. S. Highway 60 and State Highway 21, 3.3 mi. SE. of N. junction of, 60 ft. SW. of R. B. Nelson's mail box, 15 ft. S. and 45 ft. W. of highway at junction of dim rd. E., in root on S. side of 8-in. oak tree; copper nail and washer	880.86
Van Buren, 10.6 mi. E. of, along U. S. Highway 60, 2.6 mi. S. of junction of Highway 60 and State Highway 21, 40 ft. N. and 45 ft. W. of highway at junction of rd. W., in limestone boulder; standard tablet stamped "T T 12 B 1932"	879.397
Reference mark, 80 ft. E. of tablet, 5 ft. N. and 37 ft. E. of highway at junction of rd. W., in root on SW. side of 6-in. oak tree; copper nail and washer	878.32
Chilton, 7.1 mi. N. of, along Eldridge Valley road, 1 mi. SW. of U. S. Highway 60, 6 ft. E. of rd., in root on E. side of 8-in. triangular-blazed oak tree; copper nail and washer	712.70

(Continued in Grandin quadrangle; see line no. 7.)

5. FROM ELLINGTON SOUTHEAST TO POINT NEAR CENTER OF SOUTH HALF OF EAST BORDER OF QUADRANGLE (by F. C. Lentz in 1936)

U. S. C. & G. S. B. M. designated "S 114 1935"	666.114
State Highway 21 at rd. S. near S. city limits of Ellington, in top of rock retaining wall; chiseled square	697.9
Ellington, 1.3 mi. SE. of, 40 ft. N. of State Highway 21, in root on S. side of 14-in. white oak tree; copper nail and washer	932.70
Ellington, 2.3 mi. SE. of, 30 ft. E. of State Highway 21, in root on W. side of 16-in. white oak tree; copper nail and washer	934.77
Ellington, 3 mi. SE. of, in Doe Run Valley, 30 ft. S. of rd., in root on S. side of 30-in. white oak tree; copper nail and washer	878.92
Ellington, 3.7 mi. SE. of, in Doe Run Valley, 83 ft. N. of rd., 27 ft. S. and 20 ft. E. of SE. corner of Lee Webb's house, in concrete post; standard tablet stamped "T T 5 B 1932"	822.539
Reference mark, 80 ft. SW. of tablet, in root of 38-in. black oak tree; copper nail and washer	823.44

Ellington, 5 mi. SE. of, along Piedmont road, 1 mi. W. of Upper Doe Run School, 35 ft. S. of rd., at fence corner, in root on N. side of 20-in. black oak tree; copper nail and washer 779.42

Ellington, 6 mi. SE. of, along Piedmont road, in Doe Run Valley, 125 ft. N. of Upper Doe Run School, 20 ft. N. and 45 ft. E. of rd. forks, in 38-in. black oak tree; copper nail and washer 735.29

Ellington, 7 mi. SE. of, along Piedmont road, 2.8 mi. NW. of Lower Doe Run School, 30 ft. S. and 35 ft. W. of rd. corner, 35 ft. N. and 15 ft. E. of N. corner of Z. W. Larken's house, inside yard fence, in concrete post; standard tablet stamped "T 4 B 1932" 701.492

Ellington, 8 mi. SE. of, along Piedmont road, 2 mi. NW. of Lower Doe Run School, 65 ft. W. of old barn, 50 ft. N. of rd., in root on E. side of 14-in. hickory tree; copper nail and washer 677.46

Ellington, 9 mi. SE. of, along Piedmont road, 1 mi. NW. of Lower Doe Run School, 60 ft. S. and 45 ft. W. of rd. corner, in root on E. side of 36-in. elm tree; copper nail and washer 637.06

Ellington, 10 mi. SE. of, along Piedmont road, 200 ft. SE. of rd. forks, 100 ft. SW. of Lower Doe Run School, in root on S. side of 24-in. black oak tree; copper nail and washer 617.56

Ellington, 10.5 mi. SE. of, along Piedmont road, 0.7 mi. E. of Lower Doe Run School, 20 ft. N. and 90 ft. E. of rd. forks, 20 ft. N. of rd. at curve, in concrete post; standard tablet stamped "T 3 B 1932" 748.325

Reference mark, 90 ft. NE. of tablet, in root on S. side of 30-in. white oak tree; copper nail and washer 745.95

Ellington, 11.5 mi. SE. of, 12 mi. W. of Piedmont, on Ellington-Piedmont road, 1.7 mi. E. of Lower Doe Run School, 30 ft. S. of rd., in root on N. side of 14-in. hickory tree; copper nail and washer 585.23

Ellington, 12.5 mi. SE. of, 11 mi. W. of Piedmont, on Ellington-Piedmont road, in Logan Creek Valley, 2.7 mi. E. of Lower Doe Run School, 250 ft. E. of Ed. Thurman's farmhouse, 75 ft. NE. of T-rd.; in root on W. side of 50-in. pin oak tree; copper nail and washer 495.83

Ellington, 13.5 mi. SE. of, 10 mi. W. of Piedmont, on Ellington-Piedmont road, in Logan Creek Valley, 100 ft. N. of curve in rd., in 14-in. elm tree; copper nail and washer 493.18

Piedmont, 9.1 mi. W. of, along Ellington road, in Logan Creek Valley, 30 ft. S. of rd. at junction of rd. from Logan Creek School, 25 ft. N. and 55 ft. E. of NE. corner of Carter Mill building, in concrete post; standard tablet stamped "T 2 B 1932" 483.089

Piedmont, 7.6 mi. W. of, along Ellington road, 700 ft. W. of W. end of low water bridge over Black River, 20 ft. SW. of rd., opposite fence corner, in root of 18-in. elm tree; copper nail and washer 471.34

Piedmont, 6.4 mi. W. of, 17.1 mi. SE. of Ellington, 32 ft. N. of rd., 30 ft. SE. of Zimki Clark's house, at SE. corner of yard, in concrete post; standard tablet stamped "T 1 B 1932" 476.336

Piedmont, 7 mi. SW. of, in Webb Valley, 0.8 mi. SW. of Black River, 190 ft. E. of rd., 100 ft. S. of barn, in root on W. side of 50-in. black oak tree; copper nail and washer 486.84

Piedmont, 6.4 mi. W. and 2 mi. S. of, in Webb Valley, 20 ft. N. and 10 ft. E. of T-rd. N., in root on E. side of 38-in. black oak tree; copper nail and washer 513.37

Piedmont, 6.4 mi. W. and 2 mi. S. of, in Webb Valley, 900 ft. N. of T-rd., 5 ft. W. of rd., in concrete post; U. S. C. E. tablet stamped "Memphis Engineering District Clear-Water Reservoir Trav Sta E 3" 535.825

Oakgrove School, 2.2 mi. N. of, in Webb Valley, 700 ft. S. of old barn, 20 ft. E. of rd., 5 ft. E. of board fence, in root on W. side of 40-in. black oak tree; copper nail and washer 580.34

Rd. E., in triple white oak tree; copper nail and washer 574.8

Oakgrove School, 1 mi. N. of, in Webb Valley, 600 ft. N. of Chas. Anderson's house, 10 ft. E. of rd., in fence line, in root of 24-in. black oak tree; copper nail and washer 613.03

Oakgrove School, 36 ft. S. and 63 ft. E. of State Highway 34 at cross rd., (rd. S. to Hadley), 105 ft. W. of front door of schoolhouse, in concrete post; standard tablet stamped "T 8 B 1932" 789.592

Reference mark, 55 ft. S. of tablet, in root of 24-in. white oak tree; copper nail and washer 786.96

Leeper, 6.3 mi. W. of, 75 ft. S. and 20 ft. E. of T-rd. S., in root of 12-in. white oak tree; copper nail and washer 766.90

Leeper, 5.1 mi. W. of, along State Highway 34, 30 ft. S. of highway, 20 ft. S. and 85 ft. E. of highway at junction of dim rd. SE. crossing Reynolds-Wayne county line, in concrete post; standard tablet stamped "T 7 B 1932" 755.009

6. FROM POINT 8.5 MILES WEST OF LEEPER WEST TO GARWOOD

Leeper, 8.5 mi. W. of, 1 mi. W. of Oakgrove School, 35 ft. S. of State Highway 34, in root of 12-in. black oak tree; copper nail and washer 808.37

Garwood, 3.1 mi. E. of, along State Highway 34, 35 ft. NW. of highway, 35 ft. S. and 65 ft. W. of crossroads, 10 ft. NE. of triangular-blazed oak tree; in concrete post; standard tablet stamped "T 9 B 1932" 846.930

Garwood, 2 mi. E. of, along State Highway 34, 35 ft. E. of highway, in root of 14-in. black oak tree; copper nail and washer 845.43

Garwood, 1 mi. E. of, along State Highway 34, 35 ft. S. of highway, opposite gravel stock pile, in root of 12-in. black oak tree; copper nail and washer 893.48

Garwood, 7 ft. N. and 105 ft. W. of SW. corner of Missouri Southern R. R. station, 30 ft. N. of State Highway 34, 55 ft. S. of R. R. track at switch. in concrete post; standard tablet stamped "T 10 B 1932" 898.681

U. S. C. & G. S. B. M. designated "E 114 1935" 898.725

7. FROM ELLINGTON NORTH TO NORTH BORDER OF QUADRANGLE

Bridge on State Highway 21, at NW. corner of, in top of curb; chiseled square 662.2

Ellington, 0.7 mi. N. of, in Dry Valley, 0.3 mi. W. of State Highway 21, 15 ft. N. of rd., in root on S. side of 24-in. white oak tree; copper nail and washer 662.86

(Continued in Redford quadrangle; see line no. 6.)

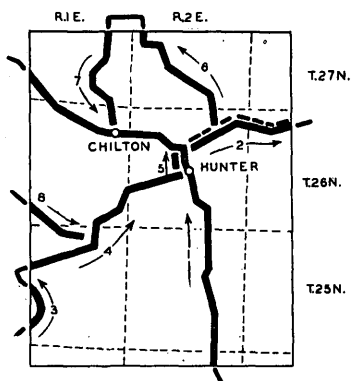
TIE BETWEEN U. S. C. & G. S. SECOND-ORDER LINE AND U. S. G. S. THIRD-ORDER LINE AT ELLINGTON

Ellington, in concrete porch of J. F. Shy's store; standard tablet stamped "Prim Trav Sta No 44 F 1924 Mo 667" 666.757
 Ellington, 210 ft. S. and 600 ft. W. of Missouri Southern R. R. station, 20 ft. S. of public rd., iron post stamped "Prim Trav Sta No 56 1913 Mo 675" 679.844
 Note.—Above described monument moved 15 ft. S. of above description. Elevation as given is correct.
 U. S. C. & G. S. B. M. designated "S 114 1935" 666.114

For an additional level line along Missouri Southern R. R. and U. S. Highway 60, refer to United States Coast and Geodetic Survey second-order line, Van Buren to Stone Hill.

GRANDIN QUADRANGLE
 (Latitude $36^{\circ}45'-37^{\circ}$; longitude $90^{\circ}45'-91^{\circ}$)

Carter and Ripley Counties



1. FROM SOUTH BORDER OF QUADRANGLE NORTH ALONG STATE HIGHWAY 21 TO HUNTER, THENCE NORTHWEST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO WEST BORDER (second-order line by H. P. Jones in 1933)

(Continued from Doniphan quadrangle; see line no. 3.)

	<u>Feet</u>
Grandin, 5.6 mi. S. of, along State Highway 21, 1.6 mi. N. of bridge over Little Black River, in W. head wall of concrete culvert; chiseled square	649.35
Grandin, 4.6 mi. S. of, along State Highway 21, 2.7 mi. N. of bridge over Little Black River, 30 ft. S. and 35 ft. W. of highway at dim cross rd., at top of hill, in root on E. side of 8-in. black oak tree; copper nail and washer	699.77
Grandin, 3.6 mi. S. of, along State Highway 21, 340 ft. N. of highway at dim rd. E., 35 ft. E. of highway, in root on W. side of 36-in. post oak tree; copper nail and washer	729.70
Grandin, 2.7 mi. S. of, along State Highway 21, 160 ft. N. of highway at timber rd. W. and lane E., 15 ft. S. of fence corner at NW. corner of field, on S. side of woods, in concrete post; standard tablet stamped "T T 57 B 1931 713"	712.929
Grandin, 1.5 mi. S. of, along State Highway 21, 12 ft. S. and 20 ft. E. of highway at cross rd., at Carter-Ripley county line, in S. head wall of concrete culvert; chiseled square	715.09
Grandin, 1.1 mi. S. of, along State Highway 21, 60 ft. S. and 50 ft. W. of highway at dim E-W. cross rd., in root on S. side of 10-in. black oak tree; copper nail and washer	771.83
Grandin, 61 ft. S. and 30 ft. W. of State Highway 21 at crossing of St. Louis-San Francisco R. R., 310 ft. S. of highway bridge over Little Black River, 65 ft. N. and 30 ft. W. of crossroads, in concrete post; standard tablet stamped "T T 56 B 1931 586"	585.536
Grandin, 1.3 mi. N. of, along State Highway 21, 160 ft. S. of highway at rd. W., near center of E. head wall of concrete culvert; chiseled square	648.59
Hunter, 2.1 mi. S. of, along State Highway 21, at foot of hill, 51 ft. N. and 37 ft. W. of highway at E-W. cross rd., 9 ft. N. and 2 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 55 B 1931 649"	648.701
Hunter, 0.7 mi. S. of, along State Highway 21, 60 ft. S. and 55 ft. E. of highway at rd. SE., in top of large flint rock; chiseled square	765.19
Hunter, at E. edge of, along State Highway 21, in E. end of S. abutment of concrete bridge over Little Black River; chiseled square	697.26
Hunter, 0.5 mi. N. of, 100 ft. W. of St. Louis-San Francisco R. R., 30 ft. W. of gate, 2 ft. S. of N. line of public rd.; iron post stamped "Prim Trav Sta No 28 F 1924 735"	734.920
Hunter, 1.8 mi. W. of, along St. Louis-San Francisco R. R., 30 ft. W. of second telegraph pole W. of pole no. 367-10, 13 ft. S. of rail, on large flint rock; highest point	640.05

Hunter, 2.8 mi. W. of, along St. Louis-San Francisco R. R., directly opposite telegraph pole no. 366-10, in cut, 8 ft. S. of track, in ledge of rock; chiseled square	542.94
Chilton, 3 mi. E. of, 350 ft. E. of St. Louis-San Francisco R. R. at rd. crossing, 11 ft. N. of track, 100 ft. N. of rd., at E. end of R. R. cut, in ledge; standard tablet stamped "Prim Trav Sta No 29 F 1924 471"	470.831
Chilton, 2.4 mi. E. of, along St. Louis-San Francisco R. R., at SE. corner of wooden trestle no. 364-8, in wooden bulkhead; copper nail and washer	448.76
Chilton, 2.3 mi. E. of, along St. Louis-San Francisco R. R., 35 ft. W. of telegraph pole no. 364-25, 65 ft. S. of track, in root of 30-in. black oak tree; copper nail and washer	439.81
Chilton, 1.1 mi. E. of, along St. Louis-San Francisco R. R., opposite second telegraph pole E. of pole no. 363-15, 8 ft. N. of track, in sandstone ledge; chiseled square	434.65
Chilton, 13 ft. S. of SW. corner of post office, 55 ft. N. of St. Louis-San Francisco R. R., in concrete post; standard tablet stamped "19 J 1932"	431.450
Chilton, 0.9 mi. W. of, along St. Louis-San Francisco R. R., in SE. corner of wooden trestle no. 361.6; copper nail and washer	437.14
Chilton, 1.7 mi. W. of, along St. Louis-San Francisco R. R., 400 ft. E. of trestle no. 360.7, 10 ft. S. of track, in large sandstone rock; chiseled square	443.23
Short, 1.1 mi. E. of, along St. Louis-San Francisco R. R., 120 ft. E. of telegraph pole no. 359-25, at E. end of cut, 8 ft. S. of track, in large flint rock; chiseled square	448.30
Short, 1 mi. E. of, along St. Louis-San Francisco R. R., 60 ft. W. of second telegraph pole W. of pole no. 359-25, 11 ft. S. of S. rail, on large rock; highest point	446.68
Short, 0.2 mi. E. of, in S. end of W. stone abutment of bridge no. 358.7; chiseled square	450.95
Short, 0.2 mi. W. of St. Louis-San Francisco R. R. station, near rd. crossing, 50 ft. S. of track, 1 ft. N. of fence; iron post stamped "Prim Trav Sta 31 F 1924 Mo 459"	459.071
Chicopee, 3.1 mi. SE. of, along St. Louis-San Francisco R. R., directly opposite milepost no. 358, 5 ft. N. of track, in ledge of rock; chiseled square	456.68
Big Spring, at, about 3.6 mi. SE. of Chicopee, about 4 ft. above water, in limestone ledge; standard tablet stamped "12 J 1933 473"	437.020
Chicopee, 2.7 mi. SE. of, along St. Louis-San Francisco R. R., in NW. corner of bridge no. 357.6 over Current River; copper nail and washer	457.74
Chicopee, 1.9 mi. SE. of, along St. Louis-San Francisco R. R., 70 ft. W. of milepost no. 356-25, 8 ft. S. of track, in sandstone ledge; chiseled square	461.43

(Continued in Van Buren quadrangle; see line no. 1.)

2. FROM HUNTER EAST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO EAST BORDER OF QUADRANGLE (by E. C. Bibbee in 1914)

(West part of line was duplicated and is included in second-order line by H. P. Jones in 1933)

Hunter, 0.9 mi. E. of, along St. Louis-San Francisco R. R. at E. end of trestle no. 223.6, in N. end of first tie; spike	771.04
Hunter, 1.8 mi. E. of, along St. Louis-San Francisco R. R., 8 ft. N. of track, in SE. corner of foundation of water tank; copper nail	802.67
Grandin Junction, 0.4 mi. W. of, opposite point where old Grandin Tramroad crosses St. Louis-San Francisco R. R., in base of telegraph brace; spike	868.65
Grandin Junction, 140 ft. SE. of St. Louis-San Francisco R. R. station sign, 80 ft. E. of track, 3 ft. from SW. corner of grocery store; iron post stamped "Prim Trav Sta No 27 F 1924 Mo 876"	875.840
Grandin Junction, 0.9 mi. E. of, along St. Louis-San Francisco R. R., 12 ft. N. of track, at E. end of large pond, in large granite rock; chiseled square	873.05
Grandin Junction, 2.3 mi. E. of, along St. Louis-San Francisco R. R., 80 ft. N. of track, 25 ft. N. of rd., in root of black oak tree; copper nail and washer	831.28
Ellisnore, 1.8 mi. W. of, 120 ft. S. of St. Louis-San Francisco R. R., on W. side of Military Road, 45 ft. S. and 10 ft. W. of fence corner at rd. crossing; iron post stamped "Prim Trav Sta No 26 F 1924 Mo 779"	779.391
Ellisnore, 0.6 mi. S. of, along St. Louis-San Francisco R. R., in NE. corner of small trestle; first driftbolt	734.41

(Continued in Williamsville quadrangle; see line no. 1.)

3. NEAR SOUTHWEST CORNER OF QUADRANGLE (leveled twice by W. R. Broadbuss in 1925-26)

(Continued from Van Buren quadrangle; see line no. 3.)

Short, 0.3 mi. S. of, near center sec. 30, T. 25 N., R. 1 E., 55 ft. W. of rd., on S. side of large spring, in ledge; standard tablet stamped "B 82 1925"	437.639
Reference mark, 67 ft. S. 35 degrees E. of tablet, in root on W. side of 20-in. white oak tree; copper nail and washer	431.10

(Continued in Van Buren quadrangle; see line no. 3.)

4. FROM WEST BORDER OF QUADRANGLE NORTHEAST TO HUNTER

(Continued from Van Buren quadrangle; see line no. 3.)

Short, 2.5 mi. N. and 2.3 mi. E. of post office, on top of ridge, 30 ft. E. of rd. junction, in root on N. side of 20-in. red oak tree; copper nail and washer	775.70
Hunter, 9.5 mi. SW. of, 1.4 mi. W. of Jed Smith School, 370 ft. E. of junction of dim rd., 10 ft. S. of Hunter-Short road, in root on N. side of 12-in. hickory tree; copper nail and washer	556.18
Jed Smith School, 44 ft. N. and 210 ft. W. of, 7.2 mi. SW. of Hunter, 50 ft. W. of Hunter-Short road, in limestone rock; standard tablet stamped "B 84 1925"	564.572

Reference mark, 22 ft. N. of tablet, in root on E. side of 18-in. post oak tree; copper nail and washer	564.48
Hunter, 6.6 mi. SW. of, 160 ft. SE. of W. W. Shockley's house, 80 ft. E. and 30 ft. N. of rd. corner, in root on W. side of 18-in. hickory tree; copper nail and washer	431.98
Hunter, 5.6 mi. SW. of, on W. side of Current River Valley, on E. side of creek, at foot of bluff, 70 ft. N. of corner of rock fence, in root on E. side of 24-in. maple tree; iron nail and copper washer	400.33
Hunter, 4.6 mi. SW. of, 0.8 mi. S. of Hunter Ferry, 780 ft. S. of rd. junction, S. of creek crossing, 30 ft. W. of and 10 ft. above rd., in limestone ledge; standard tablet stamped "B 85 1925"	90 ft. 419.483
Reference mark, 60 ft. SE. of tablet, on E. side of rd., in root on W. side of large ash tree; copper nail and washer	410.90
Hunter, 3.8 mi. W. of, on S. side of W. landing of Hunter Ferry, 9 ft. above water, in root on S. side of 14-in. elm tree; copper nail and washer	411.24
Hunter, 2.6 mi. W. of, in line with dim rd. S., 20 ft. N. of ferry rd., in root on SW. side of large stump; copper nail and washer	436.64
Hunter, 1.7 mi. W. of, 17 ft. N. and 10 ft. above rd., in line with E. side of J. H. Bacon's house, in limestone ledge; standard tablet stamped "B 86 1925"	559.241
Reference mark, 245 ft. N. 60° E. of tablet, 45 ft. N. of rd., in root on W. side of 20-in. post oak tree; copper nail and washer	555.69
Hunter, 0.5 mi. W. of, 40 ft. N. and 25 ft. W. of T-rd. N., in root on W. side of 12-in. pine tree; copper nail and washer	796.28

5. FROM HUNTER NORTH 2 MILES

Hunter, 1.7 mi. N. of, 50 ft. SW. of St. Louis-San Francisco R. R., opposite telegraph pole no. 367-10, on SE. side of ravine, in root on N. side of 18-in. white oak tree; copper nail and washer	649.23
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6. FROM JUNCTION NORTHWEST ALONG U. S. HIGHWAY 60 TO NORTH BORDER OF QUADRANGLE (by L. V. Johnson in 1932)

U. S. C. & G. S. Tri. Sta. and B. M. designated "Junction 1930"	894.601
U. S. Highway 60 and State Highway 21, 0.8 mi. NW. of S. junction of, 90 ft. N. and 36 ft. W. of Highway 60 at junction of rd. N., in root on SE. side of 8-in. pine tree; copper nail and washer	861.48
U. S. Highway 60 and State Highway 21, 1.7 mi. NW. of S. junction of, 80 ft. S. of SW. corner of Crites' place, 18 ft. SE. of SE. corner of blacksmith shop, 40 ft. W. of Highway 60, in root on N. side of 12-in. oak tree; copper nail and washer	883.21
U. S. Highway 60 and State Highway 21, 2.7 mi. NW. of S. junction of, 55 ft. N. and 50 ft. W. of Highway 60 at cross rd., in root on W. side of 10-in. oak tree; copper nail and washer	891.45
U. S. Highway 60 and State Highway 21, 3.3 mi. NW. of S. junction of, on top of hill, 115 ft. E. of crossroads, 35 ft. N. of Highway 60, in concrete post; standard tablet stamped "T T 14 B 1932"	867.252
Reference mark, 75 ft. E. of tablet, 55 ft. N. and 33 ft. E. of crossroads, in root on SW. side of 15-in. oak tree; copper nail and washer	861.49
U. S. Highway 60 and State Highway 21, 4.4 mi. NW. of S. junction of, 55 ft. N. of Highway 60, about 1,000 ft. E. of curve in highway from W. to NW., in root on S. side of triangular-blazed 18-in. oak tree; copper nail and washer	872.43
U. S. Highway 60 and State Highway 21, 5.4 mi. NW. of S. junction of, 50 ft. W. and 5 ft. S. of Highway 60 at junction of dim rd. W., 10 ft. S. and 3 ft. W. of corner of fences N. and W., in root on N. side of small oak tree; copper nail and washer	866.71
U. S. Highway 60 and State Highway 21, 6.1 mi. NW. of S. junction of, 0.6 mi. SE. of C. E. Hedgepeth's general store, 75 ft. E. of Highway 60 at junction of dim rd. M., in N. head wall of concrete culvert; chiseled square	858.79
U. S. Highway 60 and State Highway 21, 6.7 mi. NW. of S. junction of, 30 ft. N. of Highway 60, 65 ft. S. and 15 ft. W. of SW. corner of C. E. Hedgepeth's general store, in concrete post; standard tablet stamped "T T 13 B 1932"	861.802
Reference mark, 45 ft. E. of tablet, in root on E. side of 15-in. oak tree; copper nail and washer	861.54
U. S. Highway 60 and State Highway 21, 4.6 mi. SE. of N. junction of, 0.7 mi. NW. of O. E. Hedgepeth's general store, 85 ft. E. and 45 ft. S. of Highway 60 at private rd. N., in root on NE. side of triangular-blazed 12-in. oak tree; copper nail and washer	889.26
Chilton, about 6 mi. NE. of, 4 mi. SE. of N. junction of U. S. Highway 60 and State Highway 21, 120 ft. S. (? E.) and 25 ft. S. of Highway 60 at junction of rda. NE. and SW., in root on E. side of 12-in. oak tree; copper nail and washer	869.93

(Continued in Ruble quadrangle; see line no. 4.)

7. FROM NORTH BORDER OF QUADRANGLE SOUTH TO CHILTON
(Continued from Ruble quadrangle; see line no. 4.)

Chilton, 6.3 mi. N. of, along Eldridge Valley road, 12 ft. E. and 5 ft. N. of rd., at gate to Ray Daniels' farm, in root on N. side of 20-in. oak tree; copper nail and washer	672.32
Chilton, 5.4 mi. N. of, along Eldridge Valley road, 0.8 mi. N. of Eldridge Valley School, 2.7 mi. SW. of junction of U. S. Highway 60, 70 ft. W. and 12 ft. S. of SW. corner of Bentley Bone's house, 17 ft. E. of rd., 7 ft. S. of gate, in granite rock; standard tablet stamped "17 J 1932"	647.398
Chilton, 4.6 mi. N. of, along Eldridge Valley road, 65 ft. E. and 20 ft. S. of SE. corner of Eldridge Valley School, 15 ft. W. of rd., in root on W. side of 12-in. hickory tree; copper nail and washer	605.30
Chilton, 3.6 mi. N. of, along Eldridge Valley road, 1 mi. S. of Eldridge Valley School, about 160 ft. SE. of John Pitman's house, 5 ft. W. of rd., in root on E. side of large oak tree; copper nail and washer	567.58

- Chilton, 2.7 mi. NW. of, along Eldrich Valley road, 10 ft. S. of NE. corner of L. E. Jordin's farmyard, 48 ft. W. of rd., in concrete post; standard tablet stamped "18 J 1932" 531.937
- Reference mark, 20 ft. E. of tablet, in root on SE. side of 30-in. oak tree; copper nail and washer 530.07
- Chilton, 1.7 mi. N. of, along Eldrich Valley road, 0.4 mi. NW. of junction of rd. NE. to U. S. Highway 60, 50 ft. E. and 30 ft. S. of junction of private rd. W. through gate, 6 ft. S. of rd., in root on NW. side of triple sycamore tree; copper nail and washer 493.68
- Chilton, 1.3 mi. N. of, 45 ft. N. and 10 ft. W. of junction of Eldrich Valley road and rd. NE. to U. S. Highway 60, in root on S. side of 12-in. oak tree; copper nail and washer 480.50

(Balance of line is included in second-order line by H. P. Jones)

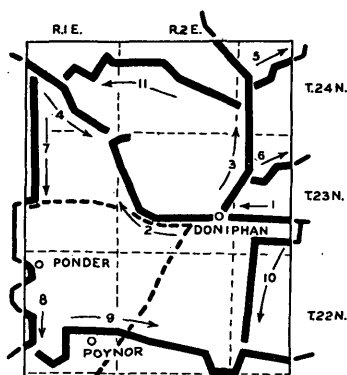
- B. FROM MIDDLE OF WEST BORDER OF QUADRANGLE SOUTHEAST TO POINT 7.2 MILES SOUTHWEST OF HUNTER (by B. A. Barnes in 1936)
(Continued from Van Buren quadrangle; see line no. 6.)

- Eastwood, 4.6 mi. SE. of, along Eastwood-Hunter road, in SW. cor. sec. 31, T. 25 N., R. 1 E., 14 ft. S. of rd., in root on N. side of triangular-blazed, 14-in. black oak tree; copper nail and washer 570.95
- Eastwood, 5.5 mi. SE. of, along Eastwood-Hunter road, 1.4 mi. NW. of Jed Smith School, in front of house, 25 ft. S. of rd., in root on NE. side of 22-in. black oak tree; copper nail and washer 544.45
- Jed Smith School, 0.6 mi. NW. of, near center of sec. 4, T. 25 N., R. 1 E., at top of ridge, 16 ft. S. of Hunter-Eastwood road, in root on NE. side of 16-in. white oak tree; copper nail and washer 673.71

For an additional level line along St. Louis-San Francisco R. R., refer to United States Coast and Geodetic Survey second-order line, Mingo to Hunter.

DONIPHAN QUADRANGLE
(Latitude $36^{\circ}30' - 36^{\circ}45'$; longitude $90^{\circ}45' - 91^{\circ}$)

Ripley County



1. FROM EAST BORDER OF QUADRANGLE WEST ALONG MISSOURI PACIFIC R. R. TO DONIPHAN
(second-order line by H. P. Jones in 1933-34)
(Continued from Acorn quadrangle; see line no. 1.)

- | | <u>Feet</u> |
|--|-------------|
| Doniphan, 3.8 mi. E. of, along Missouri Pacific R. R., 255 ft. E. of rd. crossing, in SW. corner of wooden trestle no. 1120; copper nail and washer | 460.78 |
| Doniphan, about 2.7 mi. E. of, at Owenmont, along Missouri Pacific R. R., 50 ft. N. and 36 ft. E. of rd. crossing, 11 ft. E. of fence corner, in concrete post; standard tablet stamped "1 J 1934 504" | 503.582 |
| Doniphan, 1.9 mi. E. of, along Missouri Pacific R. R., in SW. corner of wooden trestle no. 1124; copper nail and washer | 448.52 |
| Doniphan, 0.9 mi. E. of, along Missouri Pacific R. R., 50 ft. S. and 90 ft. E. of rd. crossing, 25 ft. N. of rd., in root on SW. side of 36-in. sycamore tree; copper nail and washer | 383.03 |
| Doniphan, at Missouri Pacific R. R. station, at E. end of entrance to waiting room, in top of concrete step; chiseled square | 342.47 |
| Doniphan, in top of N. end of concrete abutment, at W. end of bridge on State Highways 14 and 21 over Current River; standard U. S. G. S. gaging station tablet | 363.210 |

2. FROM DONIPHAN WEST 3.7 MILES, ALONG STATE HIGHWAY 14, THENCE NORTH TO HARGUS EDDY DAM SITE (second-order line by H. P. Jones in 1933)

- Doniphan, 0.7 mi. W. of, along State Highway 14, from Current River bridge, 20 ft. N. and 45 ft. E. of junction of State Highways 14 and 21, in E. end of N. head wall of concrete culvert; chiseled square 430.12

- Doniphan, 1.7 mi. W. of, along State Highway 14, from Current River bridge, 25 ft. E. of highway, about 65 ft. W. of NW. corner of house, in root on N. side of 20-in. post oak tree; copper nail and washer 459.52
- Doniphan, 2.7 mi. W. of, along State Highway 42, from Current River bridge, 25 ft. S. and 25 ft. E. of highway at rd. N., in top of S. head wall of concrete culvert; standard tablet stamped "13 J 1933 455" 455.121
- T. 23 N., R. 2 E., near center sec. 17, 1 mi. N. of State Highway 14, on old Bennett-Doniphan road, 11 ft. W. of rd., in root on E. side of 36-in. post oak tree; copper nail and washer 551.26
- T. 23 N., R. 2 E., in NE $\frac{1}{4}$ sec. 18, 1.8 mi. N. of State Highway 14, on old Bennett-Doniphan road, 30 ft. S. of iron culvert, 13 ft. E. of rd., in root on E. side of 12-in. white oak tree; copper nail and washer 465.56
- T. 23 N., R. 2 E., in SW $\frac{1}{4}$ sec. 7, 2.5 mi. NW. of State Highway 14, on old Bennett-Doniphan road, 55 ft. N. and 45 ft. W. of crossroads, 18 ft. E. of rd., in sandstone rock; standard tablet stamped "14 J 1933 579" 578.937
- T. 23 N., R. 1 E., in NE $\frac{1}{4}$ sec. 12, 3.4 mi. NW. of State Highway 14, on old Bennett-Doniphan road, 25 ft. E. of dim rd. fork SW., 12 ft. N. of rd., in root on W. side of 24-in. elm tree; copper nail and washer 415.23
- T. 23 N., R. 1 E., in SE $\frac{1}{4}$ sec. 1, 4.0 mi. NW. of State Highway 14, on old Bennett-Doniphan road, 75 ft. N. of T-rd. E., 30 ft. E. of rd., in root on N. side of 12-in. hickory tree; copper nail and washer 549.16
- T. 23 N., R. 2 E., in SE $\frac{1}{4}$ sec. 6, on Wells Creek road, 95 ft. E. of ford across Wells Creek, 12 ft. E. of rd., in root on W. side of 12-in. walnut tree; copper nail and washer 366.95
- T. 23 N., R. 2 E., in NW $\frac{1}{4}$ sec. 5, 7 mi. NW. of Doniphan, 0.8 mi. N. of mouth of Wells Creek, on W. bluff of Current River, 120 ft. above water, in large granite boulder; standard tablet stamped "5 B 1925" 462.320
- T. 23 N., R. 2 E., in NW $\frac{1}{4}$ sec. 5, at Hargus Eddy dam site, 0.8 mi. N. of mouth of Wells Creek, 43 ft. W. of bank of Current River, about 100 ft. S. of trail at foot of bluff, in sandstone outcrop; standard tablet stamped "15 J 1933" 355.618

3. FROM DONIPHAN NORTHEAST AND NORTH, ALONG STATE HIGHWAY 21, TO NORTH BORDER OF QUADRANGLE

- Doniphan, at N. limits of, 30 ft. N. and 20 ft. E. of junction of State Highways 14 and 21 with County Route B, in W. end of N. head wall of concrete culvert; chiseled square 466.98
- Doniphan, 0.8 mi. E. of, 1.3 mi. W. of junction of State Highways 14 and 21, 50 ft. SE. of highway at tile culvert, in root on N. side of 10-in. black oak tree; copper nail and washer 568.11
- Doniphan, 2 mi. NE. of, 25 ft. N. and 65 ft. E. of junction of State Highways 14 and 21, 7 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 61 B 1931 558" 557.710
- Doniphan, 2.7 mi. NE. of, along State Highway 21, 0.7 mi. N. of junction of State Highway 14, in W. head wall of concrete culvert; chiseled square 541.68
- Doniphan, 3.8 mi. NE. of, along State Highway 21, 50 ft. W. of SW. corner of Oak Grove School, 150 ft. N. of junction of rd. E., 35 ft. E. of highway, in root on SW. side of 24-in. post oak tree; copper nail and washer 581.62
- Doniphan, 4.5 mi. NE. of, along State Highway 21, 0.7 mi. N. of Oak Grove School, about 80 ft. S. of Emmon's store, 31 ft. S. and 34 ft. E. of highway at rd. E., in concrete post; standard tablet stamped "T T 60 B 1931 559" 558.254
- Doniphan, 5.4 mi. NE. of, along State Highway 21, 0.8 mi. N. of Emmon's store, 15 ft. N. and 20 ft. W. of highway at cross rd., in N. head wall of concrete culvert; chiseled square 623.62
- Doniphan, 6.9 mi. NE. of, along State Highway 21, 35 ft. S. and 35 ft. E. of highway at cross rd. in Otto Poke's front yard, in concrete post; standard tablet stamped "T T 59 B 1931" 617.971
- Doniphan, 7.8 mi. N. of, along State Highway 21, 1.7 mi. S. of highway bridge over Little Black River, 375 ft. SE. of crossing of E.-W. rd., in W. head wall of concrete culvert; chiseled square 584.78
- Doniphan, 8.6 mi. N. of, along State Highway 21, 0.9 mi. S. of highway bridge over Little Black River, in W. head wall of concrete culvert; chiseled square 630.10
- Doniphan, 9.5 mi. N. of, along State Highway 21, in W. end of N. abutment of highway bridge over Little Black River; chiseled square 503.47
- Doniphan, 10.1 mi. N. of, 0.4 mi. NW. of State Highway 21 bridge over Little Black River, 68 ft. W. of highway, 90 ft. N. of John Grove's house, 7 ft. E. of 20-in. oak tree; in concrete post; standard tablet stamped "T T 58 B 1931 634" 633.300

(Continued in Grandin quadrangle; see line no. 1.)

4. FROM BENNETT SOUTHEAST ABOUT 11 MILES TO HARGUS EDDY DAM SITE (by W. R. Broadus in 1925-26)

- Bennett, 1 mi. SE. of, 170 ft. E. of Jenk Mount's house, 10 ft. N. of rd., in root on S. side of 30-in. white oak tree; copper nail and washer 439.29
- Bennett, 2.2 mi. SE. of, 50 ft. W. of rd. junction, on S. bank of Buffalo Creek, 12 ft. N. of fence, in rock ledge; standard tablet stamped "2 B 1926" 413.961
- Reference mark, 90 ft. SE. of tablet, 30 ft. E. of rd., in root on N. side of 24-in. sycamore tree; copper nail and washer 403.70
- Bennett, 4.5 mi. SE. of, 1 mi. E. of Buffalo School, on S. side of Buffalo Creek Valley, at junction of hollow, 10 ft. S. of rd. junction, in root on N. side of 18-in. white oak tree; copper nail and washer 385.08
- Bennett, 5.5 mi. SE. of, 0.4 mi. S. of Buffalo Creek at ford, 80 ft. E. of rd. at ravine junction, at foot of hill, in top of boulder; standard tablet stamped "3 B 1925" 412.762
- Bennett, 6.1 mi. SE. of, 1 mi. S. of Buffalo Creek, on top of divide between Buffalo and Compton Creeks, on W. side of rd., in root on SE. side of 12-in. hickory tree; copper nail and washer 710.64
- Bennett, 7.3 mi. SE. of, 300 ft. W. of G. W. Farmer's house, on S. bank of Compton Creek, 10 ft. NW. of rd., in root on N. side of 20-in. sycamore tree; copper nail and washer 422.24

Bennett, 8.3 mi. SE. of, 0.2 mi. SE. of point where rd. crosses summit of divide between Compton and Wells Creeks, 55 ft. S. and 22 ft. E. of rd. forks, 15 ft. W. of rd. SE., in top of boulder; standard tablet stamped "4 B 1926"	580.826
Reference mark, 87 ft. N. 30° W. of tablet, 20 ft. W. of rd. junction, in root on E. side of 14-in. post oak tree; copper nail and washer	583.31
Bennett, 9.4 mi. SE. of, in Wells Creek Valley, 15 ft. N. of rd. opposite Rufus McManus' house, in root on N. side of 20-in. post oak tree; copper nail and washer	423.57
Bennett, 10.6 mi. SE. of, 0.8 mi. E. of Wells Creek School, 175 ft. S. of rd., on N. side of creek, in root on SW. side of forked red oak tree; copper nail and washer	362.29

5. IN NORTHEAST CORNER OF QUADRANGLE (by B. D. Harsha in 1934)

T. 24 N., Rs. 2 and 3 E., cor. secs. 19, 24, 25, and 30, 34 ft. S. and 37 ft. E. of T-rd. S., in root on E. side of 18-in. black oak tree; copper nail and washer	599.33
T. 24 N., R. 3 E., near quarter cor. between secs. 19 and 30, 7 ft. W. and 35 ft. S. of rd. at fence S., 6 ft. N. and 6 ft. W. of fence corner, in root on E. side of 14-in. elm tree; copper nail and washer	538.01
T. 24 N., R. 3 E., in NW. cor. sec. 29, 50 ft. S. and 15 ft. E. of crossroads, in root on N. side of 22-in. oak tree; copper nail and washer	565.10
T. 24 N., R. 3 E., in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, 25 ft. S. of SE. corner of Elizabeth M. E. Church, 25 ft. N. and 21 ft. W. of crossroads, in root on E. side of 36-in. oak tree; copper nail and washer	536.34
T. 24 N., R. 3 E., near quarter cor. between secs. 17 and 20, 9.6 mi. NE. of Doniphan, on old Greenville road, 30 ft. W. of rd., 6 ft. N. of line of N. face of Bellview Baptist Church, 9 ft. N. of center of gate to cemetery, 9 ft. N. of black oak tree; in concrete post; standard tablet stamped "T T 67 B 1931"	557.753
Reference mark, 63 ft. N. and 55 ft. E. of tablet, in root on N. side of 18-in. oak tree; copper nail and washer	555.33
T. 24 N., R. 3 E., about 0.2 mi. N. of cor. secs. 16, 17, 20, and 21, 55 ft. N. and 16 ft. E. of rd. forks, in root on E. side of 12-in. oak tree; copper nail and washer	492.93
T. 24 N., R. 3 E., 0.2 mi. W. of center sec. 16, 35 ft. N. and 16 ft. W. of crossroads, in root on W. side of 10-in. oak tree; copper nail and washer	475.48

(Continued in Acorn quadrangle; see line no. 4.)

6. FROM POINT 2 MILES NORTHEAST OF DONIPHAN, NORTHEAST TO EAST BORDER OF QUADRANGLE

Doniphan, 2.7 mi. NE. of, along State Highway 14, 0.7 mi. E. of junction with State Highway 21, 40 ft. E. of highway at rd. S., on top of W. end of S. concrete head wall; painted square	513.39
Doniphan, 3.2 mi. NE. of, along State Highway 14, 55 ft. S. and 150 ft. W. of highway at cross rd., in top of E. end of S. concrete head wall; chiseled square	484.32
Doniphan, 4 mi. NE. of, along State Highway 14, in top of S. end of E. abutment of concrete bridge no. F-700; chiseled square	466.09

(Continued in Acorn quadrangle; see line no. 3.)

7. SOUTH ALONG NORTH PART OF WEST BORDER OF QUADRANGLE (by B. A. Barnes in 1935)

T-rd. E., on W. side of, in root of 30-in. oak tree; iron nail	513.8
T. 24 N., R. 1 E., in NW $\frac{1}{4}$ sec. 28, 30 ft. N. of rd. fork NE., 21 ft. E. of Bennett-Doniphan road, in root of 18-in. black oak tree; copper nail and washer	460.67
Rd. forks, in root on SE. side of 8-in. oak tree; iron nail	460.2
T. 24 N., R. 1 E., in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, 22 ft. W. of Bennett-Doniphan road, at bottom of steep hill, in root of 16-in. black oak tree; copper nail and washer	505.81
Rd. forks, in root of 8-in. pine tree; iron nail	676.3
Rd. fork NE., in root of 15-in. oak tree; iron nail	702.1
T. 23 N., R. 1 E., in NW $\frac{1}{4}$ sec. 4, 2.9 mi. N. of State Highway 14, along Briar Creek-Bennett road, in triangle formed by junction of rd. W., 33 ft. W. of rd., 35 ft. N. of small creek, in concrete post; standard tablet stamped "T T 1622 E R A 1935"	639.501
T-rd. E., in root of 24-in. white oak tree; crossed iron nails	702.5
T. 23 N., R. 1 E., in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, on top of hill, 40 ft. W. of rd., in root on SE. side of 24-in. white oak tree; copper nail and washer	763.74
T-rd. E., in root on NW. side of 26-in. black oak tree; crossed iron nails	792.3
T-rd. E., 40 ft. S. and 70 ft. E. of, in root of 14-in. black oak tree; crossed iron nails	745.6
T. 23 N., R. 1 E., in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, 0.3 mi. W. of Briar Creek post office, 25 ft. E. and 30 ft. N. of junction of State Highway 14 and Briar Creek-Bennett road, in root on NE. side of 16-in. black oak tree; copper nail and washer	688.28
U. S. C. & G. S. B. M. designated "X 67 1934"	666.163
State Highway 14 at rd. N., 50 ft. E. of, in top at center of N. head wall of concrete culvert; chiseled square	700.9
T. 23 N., R. 1 E., in NE $\frac{1}{4}$ sec. 18, 20 ft. N. and 45 ft. E. of State Highway 14 at cross rd., in root on SE. side of 30-in. black oak tree; copper nail and washer	746.46

(Continued in Gatewood quadrangle see line no. 4.)

8. SOUTH ALONG SOUTH PART OF WEST BORDER OF QUADRANGLE

(Continued from Gatewood quadrangle; see line no. 4.)

T. 22 N., R. 1 E., near quarter cor. between secs. 5 and 6, 60 ft. E. of rd. corner from E. to S., 15 ft. N. of dim lane E., at top of ridge, in root of 28-in. black oak tree; copper nail and washer	542.40
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Ponder, 0.3 mi. W. of, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, T. 22 N., R. 1 E., 110 ft. W. of junction of Bardley-Ponder and Gatewood-Ponder roads, 200 ft. E. of church, in concrete post; standard tablet stamped "T T 1629 E R A 1935" 556.231

(For balance in Gatewood quadrangle, see line no. 4.)

Ponder, 1 mi. W. and 2 mi. S. of, along Gatewood-Ponder and Bell View wagon roads, in sec. 17, T. 22 N., R. 1 E., 30 ft. N. of rd., 33 ft. S. and 35 ft. W. of SW corner of schoolhouse, in concrete post; standard tablet stamped "T T 1630 E R A 1935" 616.867

Top of steep hill, 40 ft. E. of rd., in root on NW. side of 26-in. black oak tree; crossed iron nails 567.2

T. 22 N., R. 1 E., in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, 120 ft. S. and 50 ft. E. of ford, in root on W. side of 24-in. sycamore tree; copper nail and washer 404.42

Crossroads, 60 ft. N. and 30 ft. E. of, in root on W. side of 22-in. elm tree; crossed iron nails 444.4

Rd. forks, 60 ft. W. of, on E. side of 18-in. white oak tree; crossed iron nails 537.7

Ponder, 5.8 mi. SW. of, along Gatewood-Ponder and Bell View wagon roads, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, T. 22 N., R. 1 E., near E.-W. sec. line, 23 ft. N. and 26 ft. E. of crossroads, in concrete post; standard tablet stamped "T T 1632 E R A 1935" 478.576

Reference mark, 90 ft. S. of tablet, 30 ft. E. of rd., in root on NW. side of 20-in. white oak tree; copper nail and washer 478.01

(Continued in Gatewood quadrangle; see line no. 6.)

9. EAST ALONG SOUTH BORDER OF QUADRANGLE INCLUDING THAT PART OF THE LINE IN REYNO QUADRANGLE (ARK.-MO.)

Top of hill, 15 ft. W. of rd. forks, in root on N. side of 30-in. black oak tree; crossed iron nails 557.0

T. 22 N., R. 1 E., in SW $\frac{1}{4}$ sec. 28, 15 ft. N. of rd., in root on S. side of triangular-blazed 24-in. white oak tree; copper nail and washer 501.33

T-rd. W., 120 ft. N. and 20 ft. W. of, in root on W. side of 16-in. black oak tree; crossed iron nails 440.0

T. 22 N., R. 1 E., in NW $\frac{1}{4}$ sec. 33, 50 ft. S. and 40 ft. W. of crossroads, in root on S. side of 22-in. white oak tree; copper nail and washer 507.14

Rd. forks, 30 ft. W. of, in root on S. side of 10-in. elm tree; crossed iron nails 470.5

T. 22 N., R. 1 E., near center of SW $\frac{1}{4}$ sec. 34, 10 ft. N. of T-rd. S., in root on N. side of 22-in. black oak tree; copper nail and washer 457.68

Top of ridge, 10 ft. S. of rd., in root on NE. side of 16-in. white oak tree; crossed iron nails 419.5

T. 22 N., R. 1 E., in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, 220 ft. E. and 50 ft. N. of ford across Fourche Creek, 110 ft. W. and 30 ft. S. of SW. corner of Sugar Tree School, in root on S. side of 24-in. black oak tree; copper nail and washer 350.12

T-rd. W., in triangle at, in root on SE. side of 22-in. white oak tree; crossed iron nails 460.9

T. 22 N., R. 1 E., in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, 65 ft. E. and 10 ft. S. of rd. at junction of lane E., in root on W. side of 10-in. black oak tree; copper nail and washer 461.85

T-rd. S., 20 ft. N. and 15 ft. E. of, in root on S. side of 10-in. black oak tree; crossed iron nails 445.2

Poynor, 0.8 mi. N. and 2.5 mi. W. of, in SE $\frac{1}{4}$ sec. 22, T. 22 N., R. 1 E., 25 ft. N. and 15 ft. E. of T-rd. E., near E.-W. sec. line, in concrete post; standard tablet stamped "T T 1633 E R A 1935" 426.335

T-rd. N., 50 ft. S. of, at top of hill, in root on NE. side of 32-in. black oak tree; crossed iron nails 499.4

T. 22 N., R. 1 E., cor. secs. 23, 24, 25, and 26, 85 ft. E. and 50 ft. N. of crossroads, in root on SE. side of 20-in. black oak tree; copper nail and washer 511.77

Crossroads, 18 ft. S. and 12 ft. E. of, in root on N. side of 12-in. hickory tree; crossed iron nails 479.9

T. 22 N., Rs. 1 and 2 E., cor. secs. 19, 24, 25, and 30, 85 ft. E. and 21 ft. S. of junction of rd. E. from crossroads, in root on NE. side of 20-in. black oak tree; copper nail and washer 461.86

State Highway 21 at cross rd., 60 ft. W. and 20 ft. N. of, in root on S. side of 20-in. black oak tree; crossed iron nails 440.5

U. S. C. & G. S. B. M. designated "L 67 1934" 428.145

Top of ridge, 30 ft. N. of rd., in root on N. side of 14-in. black oak tree; crossed iron nails 494.6

T. 22 N., R. 2 E., quarter cor. between secs. 29 and 30, 25 ft. E. and 40 ft. S. of rd. at N.-S. fences, in root on N. side of 12-in. white oak tree; copper nail and washer 416.54

T-rd. S., 30 ft. S. and 10 ft. E. of, at top of hill, in root on NW. side of 24-in. black oak tree; crossed iron nails 479.9

T. 22 N., R. 2 E., quarter cor. between secs. 28 and 29, 40 ft. E. and 30 ft. S. of T-rd. W., at entrance to Dismang School, in NE. corner of bottom step; chiseled square 362.11

Poynor, 2 mi. E. and 0.5 mi. S. of, in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 22 N., R. 2 E., 25 ft. E. of N.-S. rd., 81 ft. S. of fence E., N. of old church, in concrete post; standard tablet stamped "T T 1623 E R A 1935" 382.413

In valley, 33 ft. E. and 40 ft. S. of fence corner, 30 ft. S. of abandoned rd., in root on NW. side of 12-in. black oak tree; crossed iron nails 401.1

T. 22 N., R. 2 E., cor. secs. 27, 28, 33, and 34, 45 ft. N. and 60 ft. E. of crossroads, in root on W. side of 10-in. hickory tree; copper nail and washer 385.58

Top of hill, 15 ft. S. of rd., in root on W. side of 12-in. oak tree, in fence corner; crossed iron nails 367.2

T. 22 N., R. 2 E., cor. secs. 26, 27, 34, and 35, 36 ft. N. and 33 ft. E. of County Route A at cross rd., in root on SW. side of 24-in. black oak tree; copper nail and washer 361.91

T. 22 N., R. 2 E., secs. 26 and 35, 124 ft. W. and 20 ft. S. of T-rd. W. at E. sixteenth cor. between, in concrete post; standard tablet stamped "T T 1634 E R A 1935" 325.901

T. 22 N., R. 2 E., in NE $\frac{1}{4}$ sec. 36, 60 ft. W. of Current River, on right bank opposite lower point of island, in root on NW. side of 8-in. ash tree; copper nail and washer	297.60
Current River, on left bank of, opposite above described benchmark, in root on NE. side of 24-in. elm tree; crossed iron nails	295.7
House, in front of, 10 ft. S. of rd., in root on N. side of 12-in. hickory tree; crossed iron nails	371.2
T. 22 N., R. 3 E., near center of NW $\frac{1}{4}$ sec. 31, 65 ft. E. and 15 ft. S. of rd. corner from E. to N., in front of house, in root on NW. side of 16-in. hickory tree; copper nail and washer	372.34
Doniphan, 9.7 mi. SE. of, along County Routes B and E, near center NW $\frac{1}{4}$ sec. 32, T. 22 N., R. 3 E., 146 ft. S. and 24 ft. E. of Route E at rd. W., in concrete post; standard tablet stamped "T T 1627 E R A 1935"	385.911
Reference mark, 215 ft. S. of tablet, in root on E. side of 28-in. black oak tree; copper nail and washer	380.78
Current View, 0.2 mi. S. of, along County Route E, at Mo.-Ark. State line, 27 ft. S. and 12 ft. E. of cross rd., in center of E. head wall of concrete culvert; chiseled square	326.65
Rd., 15 ft. S. of, 6 ft. NE. of NE. corner of garage, in root on N. side of 12-in. walnut tree; crossed iron nails	335.7
Current View, 0.2 mi. S. and 0.8 mi. E. of, 70 ft. S. and 40 ft. W. of T-rd. W., in root on NE. side of 14-in. black oak tree; copper nail and washer	336.93
T. 22 N., R. 3 E., near quarter cor. between secs. 32 and 33, 33 ft. N. and 30 ft. E. of T-rd. E., in root on SE. side of 10-in. black oak tree; copper nail and washer	336.72
T. 22 N., R. 3 E., quarter cor. between secs. 33 and 34, 60 ft. N. and 40 ft. W. of crossroads, in root on E. side of twin 8-in. white oak tree; copper nail and washer	345.34

(Continued in Acorn quadrangle; see line no. 6.)

10. SOUTH ALONG SOUTH PART OF EAST BORDER OF QUADRANGLE
(Continued from Acorn quadrangle; see line no. 7.)

Top of ridge, 75 ft. W. and 35 ft. S. of County Route B at dim cross rd., in root on NE. side of 24-in. post oak tree; crossed iron nails	542.5
Doniphan, 4 mi. E. of, along County Route B, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 23 N., R. 3 E., 32 ft. N. and 216 ft. E. of Route B at fence S. at N. cor. secs. 5 and 6, T. 22 N., R. 3 E., 32 ft. N. of junction of Routes B and E, in concrete post; standard tablet stamped "T T 1625 E R A 1935"	502.241
In valley, in S. end of E. head wall of concrete culvert; chiseled square	450.8
T. 22 N., R. 3 E., in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 5, 50 ft. W. and 20 ft. S. of County Route E at lane W., on top of hill, in root on S. side of 30-in. black oak tree; copper nail and washer	498.67
T-rd. W., 35 ft. N. and 50 ft. W. of, in root on SE. side of 8-in. black oak tree; crossed iron nails	489.7
Top of ridge, 35 ft. E. and 55 ft. N. of County Route E at lane E., in root on SW. side of 10-in. hickory tree; crossed iron nails	498.1
Doniphan, 6.8 mi. SE. of, along County Routes B and E, 29 ft. W. of Route E at rd. E. at center sec. 17, T. 22 N., R. 3 E., in concrete post; standard tablet stamped "T T 1626 E R A 1935"	482.317
County Route E at rd. W., 75 ft. S. and 25 ft. W. of, in root on NE. side of 12-in. black oak tree; crossed iron nails	462.2
T. 22 N., R. 3 E., in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, 40 ft. S. and 40 ft. E. of County Route E at dim cross rd., in root on NE. side of 12-in. black oak tree; copper nail and washer	428.58
County Route E at rd. E., 120 ft. S. and 36 ft. W. of, in root on E. side of 8-in. black oak tree; crossed iron nails	452.2
T. 22 N., R. 3 E., near center sec. 29, 40 ft. N. and 90 ft. W. of junction of County Routes E and N, in root on E. side of 24-in. white oak tree; copper nail and washer	423.00

11. WEST THROUGH NORTH PART OF QUADRANGLE

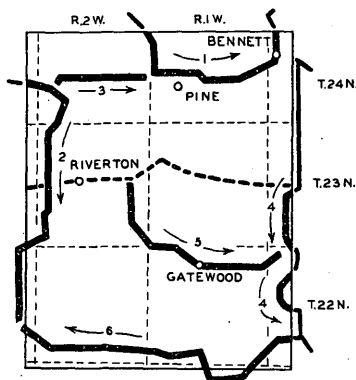
Top of ridge, 40 ft. S. of rd., in root on N. side of 8-in. post oak tree; crossed iron nails	658.9
T. 24 N., R. 2 E., near center sec. 23, 24 ft. S. and 30 ft. E. of junction of State Highway 21 and E.-W. rd., in root on N. side of 12-in. black oak tree; copper nail and washer	651.10
T. 24 N., R. 2 E., quarter cor. between secs. 22 and 23, 45 ft. W. and 28 ft. S. of crossroads, in root on N. side of 36-in. black oak tree; copper nail and washer	647.14
Doniphan, 10.5 mi. N. of, by rd., in SW $\frac{1}{4}$ sec. 22, T. 24 N., R. 2 W., 0.8 mi. W. of John E. Brooks' house, 72 ft. S. of rd. at blazed tree and point where rd. descends slightly to NW., in concrete post; standard U. S. C. & G. S. triangulation station tablet designated "Brooks 1930"	694.410
Reference mark no. 1, 33 ft. NE. of rd., 112 ft. S. of station, in concrete; standard U. S. C. & G. S. reference mark tablet	691.014
Reference mark no. 2, 10 ft. N. of rd. at curve, 120 ft. W. of station, in concrete post; standard U. S. C. & G. S. reference mark tablet	694.215
Slope, about half way down, in root on N. side of triangular-blazed 12-in. oak tree; crossed iron nails	665.5
T. 24 N., R. 2 E., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, 105 ft. SW. of rd. forks, 35 ft. W. of rd., in root on NE. side of 12-in. white oak tree; copper nail and washer	647.58
Rd. forks, 15 ft. S. of, in root on NW. side of 12-in. oak tree; crossed iron nails	662.3
T. 24 N., R. 2 E., in SE $\frac{1}{4}$ sec. 17, 52 ft. SW. of junction of rd. from SE. to SW. and rd. E., in root on NE. side of 14-in. black oak tree; copper nail and washer	689.66
Junction of rds. N., W., and S., 20 ft. N. and 10 ft. W. of, in root on W. side of 10-in. black oak tree; crossed iron nails	658.7

- T. 24 N., R. 2 E., in SE $\frac{1}{4}$ sec. 18, 40 ft. NE. and 15 ft. N. of rd. fork NE., in root on S. side of 22-in. black oak tree; copper nail and washer 492.28
Spring branch, 45 ft. SE. of, 15 ft. S. of rd., in root on NE. side of 10-in. post oak tree; crossed iron nails 454.8
T. 24 N., R. 2 E., in NW $\frac{1}{4}$ sec. 19, on top of ridge, 145 ft. S. of trail, in root on SW. side of 20-in. white oak tree; copper nail and washer 623.31
T. 24 N., R. 1 E., sec. 24, about 0.2 mi. W. and 270 ft. S. of NE. cor. of, about 200 ft. S. of ridge rd. at saddle between two prominent hills, 47 ft. W. of rd., 7 ft. W. of triangular-blazed 24-in. post oak tree, 8 ft. S. of 10-in. pine tree, in top of 18-in. square sandstone; standard tablet stamped "T 1 G 1936" 549.092
T. 24 N., R. 1 E., in NE. cor. sec. 24, 25 ft. S. and 30 ft. E. of trail at junction of drain from NE. with N.-S. hollow, in root of 14-in. white oak tree; crossed iron nails 414.1
T. 24 N., R. 1 E., in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, on top of ridge, 10 ft. S. of rd. N., 125 ft. N. of rd. NE., in root on SE. side of 20-in. white oak tree; copper nail and washer 520.66
T. 24 N., R. 1 E., in NE $\frac{1}{4}$ sec. 23, 35 ft. E. of left bank of Current River, in root on NW. side of leaning 22-in. cottonwood tree; copper nail and washer 360.27
Opposite above described benchmark, on right bank of Current River, in root on SW. side of 30-in. elm tree; crossed iron nails 360.1
T. 24 N., R. 1 E., in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, 40 ft. N. of T-rd. S., in root on SE. side of 18-in. white oak tree; copper nail and washer 376.58

For additional level lines along State Highways 21 and 14, refer to United States Coast and Geodetic Survey second-order lines; Pocahontas, Ark. to Doniphan, Mo., and Doniphan to Alton.

GATEWOOD QUADRANGLE
(Latitude 36°30'-36°45'; longitude 91°-91°15')

Oregon and Ripley Counties



1. FROM NORTH BORDER OF QUADRANGLE SOUTH AND EAST TO BENNETT, THENCE NORTH TO NORTH BORDER (by W. R. Broadus in 1925)
(Continued from Van Buren quadrangle; see line no. 2.)

- Pine, 1.4 mi. W. and 1.7 mi. N. of, 6.5 mi. SE. of Wilderness, 90 ft. S. and 20 ft. W. of rd. junction, near Oregon-Ripley county line, in root on S. side of 6-in. black oak tree; iron nail and copper washer 808.05
Pine, 1.4 mi. W. and 0.8 mi. N. of, 800 ft. S. of T-rd. W., 15 ft. W. of rd., in root on NE. side of 12-in. red oak tree; iron nail and copper washer 803.39
Pine, 1.4 mi. W. of, on Oregon-Ripley county line, 20 ft. N. and 17 ft. W. of T-rd. E., 173 ft. N. and 17 ft. W. of T-rd. W., in stone post; standard tablet stamped "77 B 1925" 758.076
Reference mark, 141 ft. S. of tablet, in root on SW. side of 24-in. pine tree; copper nail and washer 758.63
Pine, 1,000 ft. W. of post office, 15 ft. S. and 15 ft. W. of rd. junction, on top of hill, in root on N. side of large forked black oak tree; copper nail and washer 729.28
Pine, 0.4 mi. E. of post office, opposite Albert Wilson's house, 15 ft. N. of rd., in root on S. side of 24-in. red oak tree; iron nail and copper washer 723.07
Pine, 0.7 mi. E. and 0.3 mi. S. of post office, 250 ft. N. and 365 ft. W. of T-rd. E., 32 ft. N. and 22 ft. E. of A. L. Sprigg's barn, in rock outcrop; standard tablet stamped "78 B 1925" 744.146
Reference mark, 375 ft. E. and 245 ft. S. of tablet, 12 ft. E. and 8 ft. N. of T-rd. E., in root on SW. side of 12-in. oak tree; iron nail and copper washer 751.52
Pine, 1.5 mi. E. and 0.2 mi. S. of, 15 ft. N. of Bennett-Pine road at junction of rd. NW., in root on SW. side of 30-in. post oak tree; copper nail and washer 739.82
Pine, 2.2 mi. E. and 0.2 mi. S. of, 15 ft. S. and 40 ft. W. of Bennett-Pine road at forks, in root on NW. side of 15-in. blackjack oak tree; iron nail and copper washer 734.76
Pine, 3 mi. E. of, 600 ft. E. of point where Bennett-Pine road leaves creek valley, 240 ft. SW. of creek crossing, 34 ft. S. of rd., in top of granite boulder; standard tablet stamped "79 B 1925" 577.994

Reference mark, 48 ft. N. of tablet, in root on S. side of triangular-blazed 18-in. post oak tree; iron nail and washer	572.45
Bennett, 2.6 mi. W. of, 4.1 mi. E. of Pine, 200 ft. S. of creek crossing, 10 ft. W. of Bennett-Pine road, at bend in creek valley from W. to S., in root on NE. side of 24-in. white oak tree; copper nail and washer	528.36
Bennett, 1.1 mi. W. of, 80 ft. W. of rd. forks, in root on N. side of forked post oak tree; iron nail and copper washer	482.28
Bennett, in concrete porch in front of W. O. Robert's general store; standard tablet stamped "80 B 1925"	451.606
Reference mark, 140 ft. W. of tablet, in concrete steps of Baptist Church; chiseled square	450.16
Bennett, 0.8 mi. N. of, 10 ft. N. of rd. junction on top of ridge, in root on W. side of forked red oak tree; copper nail and washer	705.75
Bennett, 1.8 mi. NW. of, on top of ridge, 10 ft. NE. of rd., in root on SW. side of 30-in. post oak tree; iron nail and copper washer	748.86

(Continued in Van Buren quadrangle; see line no. 3.)

2. SOUTH ALONG WEST BORDER OF QUADRANGLE INCLUDING THAT PART OF THE LINE IN COUCH QUADRANGLE (by C. E. Reick in 1932)

T. 24 N., R. 3 W., 230 ft. W. of E. line of sec. 26, on S. side of rd., in root of 30-in. white oak tree; copper nail and washer	779.74
T. 24 N., R. 2 W., in sec. 30, 80 ft. NW. of crossroads, in root of 20-in. oak tree; copper nail	736.93
T. 24 N., R. 2 W., about 700 ft. E. of W. cor. secs. 30 and 31, 27 ft. N. and 31 ft. E. of rd. corner, 4 ft. W. of triangular-blazed pine tree, in concrete post; standard tablet stamped "T T 88 B 1932"	694.134
Reference mark, 350 ft. N. of tablet, on W. side of rd., in ledge; chiseled square	712.57
T. 24 N., R. 2 W., in sec. 31, on W. side of rd., at W. M. Farris' mail box, in root of 20-in. oak tree; copper nail	713.96
Morgan School, near center of S $\frac{1}{2}$ sec. 6, T. 23 N., R. 2 W., 6 ft. W. of W. door of schoolhouse, in concrete porch; standard tablet stamped "T T 89 B 1932"	669.199
Reference mark, 60 ft. W. of tablet, in root of 18-in. oak tree; copper nail	665.27
T. 23 N., R. 3 W., in NE $\frac{1}{4}$ sec. 12, 80 ft. N. of rd. forks, on W. side of rd., in root of 24-in. oak tree; copper nail	762.24
T. 23 N., R. 3 W., in sec. 12, at stream crossing, on W. side of rd., in root of 20-in. oak tree; copper nail	642.63
T. 23 N., R. 3 W., in sec. 13, 40 ft. SE. of rd. forks, in root of 24-in. oak tree; copper nail	744.47
T. 23 N., R. 3 W., in NE $\frac{1}{4}$ sec. 24, 1 mi. E. of Dry Creek, 38 ft. N. and 31 ft. W. of State Highway 42 at cross rd., in concrete post; standard tablet stamped "T T 90 B 1932"	737.212
Reference mark, 80 ft. S. of tablet, in root of 30-in. oak tree; copper nail	730.51
Jobe, 3.9 mi. N. of, 50 ft. W. of rd., on summit of ridge, in root of 36-in. oak tree; copper nail	731.38
Jobe, 2.9 mi. N. of, in sec. 25, T. 23 N., R. 3 W., 10 ft. E. of rd., 200 ft. S. of T-rd. E., in root of 24-in. oak tree; copper nail	666.97
Jobe, 1.3 mi. N. of, near S. quarter cor. sec. 36, T. 23 N., R. 3 W., 400 ft. N. of Dry Creek fork, 25 ft. N. and 30 ft. E. of junction of rd. E., 7 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 91 B 1932"	489.337
Reference mark, 110 ft. S. of tablet, in root of 20-in. oak tree; copper nail	478.87
Jobe, 0.6 mi. N. of, on summit, 30 ft. E. of rd., 100 ft. SW. of house, in root of 24-in. oak tree; copper nail	581.81
Jobe, 75 ft. NE. of crossroads, in root of 20-in. elm tree; copper nail	460.67
Jobe, 1 mi. S. of, 500 ft. N. of ford, on W. side of rd., in root of 24-in. oak tree; copper nail	476.60
Jobe, 2 mi. S. of, 31 ft. S. and 22 ft. W. of crossroads at cor. secs. 13, 14, 23, and 24, T. 22 N., R. 3 W., 20 ft. S. of fence corner, in concrete post; standard tablet stamped "T T 92 B 1932"	559.139
Reference mark, 490 ft. S. of tablet, in root of 20-in. oak tree; copper nail	558.68
T. 22 N., R. 3 W., in SW $\frac{1}{4}$ sec. 22, 40 ft. SE. of crossroads, in root of 15-in. oak tree; copper nail	632.24
T. 22 N., R. 3 W., in sec. 25, on summit, 100 ft. NE. of rd. fork W., in root of 15-in. oak tree; copper nail	634.00
Myrtle, 1 mi. NE. of, 442 ft. N. and 40 ft. E. of quarter cor. between secs. 35 and 36, T. 22 N., R. 3 W., 25 ft. N. and 40 ft. E. of T-rd. N., in concrete post; standard tablet stamped "T T 93 B 1932"	543.372
Reference mark, 330 ft. SW. of tablet, in root of 18-in. oak tree; nail	545.29
Myrtle, in front porch of John M. Crass' general store, W. of front door; standard tablet stamped "T T 94 B 1932"	566.377
Reference mark, 240 ft. W. of tablet, in concrete base of tank; chiseled square	560.70

3. FROM POINT NEAR WEST BORDER OF QUADRANGLE EAST TO POINT NEAR PINE

T. 24 N., R. 2 W., 900 ft. SE. of NW. cor. sec. 29, 0.8 mi. W. of Eleven Point River, on S. side of old Alton-Bardley road, in root of 15-in. oak tree; copper nail	743.30
T. 24 N., R. 2 W., in NW $\frac{1}{4}$ sec. 29, on E. bank of Eleven Point River, at boat landing near old ford, in root of 15-in. sycamore tree; copper nail	446.42
Eleven Point River, at old ford; surface of water April 25, 1932	443.9
T. 24 N., R. 2 W., in NE $\frac{1}{4}$ sec. 29, at top of steep grade W. to river ford on E. side of rd., in root of 20-in. hickory tree; copper nail	699.02
T. 24 N., R. 2 W., 500 ft. SE. of cor. secs. 20, 21, 28, and 29, 70 ft. S. of rd., in ledge; standard tablet stamped "10 R 1932"	738.785
Reference mark, 50 ft. NE. of tablet, in boulder; chiseled square	737.92
T. 24 N., R. 2 W., in NW $\frac{1}{4}$ sec. 27, on S. side of old Alton-Bardley road, in root of 30-in. oak tree; copper nail	763.72

T. 24 N., R. 2 W., in NW $\frac{1}{4}$ sec. 25, 100 ft. N. of school, on S. edge of rd., in root of 15-in. oak tree; copper nail 773.94

4. SOUTH ALONG EAST BORDER OF QUADRANGLE (by B. A. Barnes in 1935)
(Continued from Doniphan quadrangle; see line no. 7.)

Rd. forks, 15 ft. E. of, 130 ft. S. of creek, in root on N. side of 16-in. black oak tree; crossed iron nails 671.4
T-rd. W., 30 ft. W. and 10 ft. S. of, in root on E. side of 24-in. black oak tree; crossed iron nails 651.6
Briar Creek, 1.8 mi. W. of, along State Highway 14 and 1 mi. S. of, along graded rd., in SE $\frac{1}{4}$ sec. 19, T. 23 N., R. 1 E., 30 ft. S. of S. side of Billey McKinney's house, 12 ft. W. of rd., 2 ft. E. of fence, in concrete post; standard tablet stamped "T T 1628 E R A 1935" 614.077
Rd. forks, 40 ft. N. of, 30 ft. S. of creek branch, in root on W. side of 26-in. black oak tree; crossed iron nails 585.5
T. 23 N., R. 1 E., in NW $\frac{1}{4}$ sec. 31, 15 ft. E. of rd. forks, on top of ridge, in root on SW. side of 26-in. black oak tree; copper nail and washer 688.60
Fence corner, in root on SE. side of 10-in. white oak tree; crossed iron nails 628.2
T. 23 N., R. 1 E., near center sec. 31, 90 ft. N. and 45 ft. E. of Bardley-Ponder road, at junction of rd. N., 60 ft. W. of house, 15 ft. E. of rd., in root on W. side of 22-in. white oak tree; copper nail and washer 553.58
West Fork Fourche Creek, 120 ft. S. and 70 ft. W. of ford across, in root on E. side of 30-in. cottonwood tree; crossed iron nails 456.8

(For balance in Doniphan quadrangle, see line no. 8.)

T-rd. S., 50 ft. S. and 130 ft. E. of, in root on N. side of 28-in. black oak tree; crossed iron nails 616.3
T. 22 N., R. 1 E., in NE $\frac{1}{4}$ sec. 7, 35 ft. W. of rd., in root on SE. side of 8-in. twin black oak tree; copper nail and washer 612.34
T-rd. W., 30 ft. W. and 20 ft. S. of, in root on SE. side of 32-in. black oak tree; crossed iron nails 594.7
T. 22 N., R. 1 E., near center of NE $\frac{1}{4}$ sec. 18, 130 ft. S. and 35 ft. W. of rd. fork W., in root on NE. side of 28-in. black oak tree; copper nail and washer 616.52

(Continued in Doniphan quadrangle; see line no. 8.)

5. FROM POINT NEAR CENTER OF QUADRANGLE SOUTH AND EAST TO EAST BORDER (by B. A. Barnes in 1936)

U. S. C. & G. S. B. M. designated "D 68 1934" 709.169
U. S. C. & G. S. B. M. designated "E 68 1934" 660.812
In valley, 35 ft. W. and 50 ft. S. of rd. at lane SE., in root on E. side of 28-in. black oak tree; crossed iron nails 544.8
Gatewood, 7.4 mi. NW. of, along Gatewood-Riverton road, in NE $\frac{1}{4}$ sec. 23, T. 23 N., R. 2 W., 24 ft. W. of rd. at lane E., 8 ft. E. of fence, in root on E. side of 26-in. black oak tree; copper nail and washer 503.91
Gatewood, 6.4 mi. NW. of, along Gatewood-Riverton road, in SE $\frac{1}{4}$ sec. 23, T. 23 N., R. 2 W., 12 ft. E. and 50 ft. N. of rd. at dim lane E., in root on W. side of triangular-blazed 20-in. black oak tree; copper nail and washer 653.37
Top of ridge, 25 ft. N. of rd., 10 ft. S. of fence, in root on S. side of 22-in. black oak tree; crossed iron nails 647.7
Gatewood, 5.4 mi. NW. of, along Gatewood-Riverton road, 370 ft. S. and 45 ft. W. of stone at E. sixteenth cor. between secs. 26 and 35, T. 23 N., R. 2 W., 35 ft. W. of rd., 68 ft. S. and 33 ft. E. of house on Brook ranch, known as Boyd's, 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 3 G 1936" 559.889
Hurricane Creek, 75 ft. N. of right bank of, 70 ft. W. of rd., in root on S. side of 16-in. black oak tree; crossed iron nails 448.7
Gatewood, 4.5 mi. NW. of, along Gatewood-Riverton road, 30 ft. S. and 100 ft. E. of junction of lane E., in root on N. side of triangular-blazed 18-in. black oak tree; copper nail and washer 585.23
Gatewood, 3.9 mi. NW. of, along Gatewood-Riverton road, 15 ft. W. and 35 ft. N. of junction E. of triangle formed by rds. E., S., and NW., in root on S. side of triangular-blazed 30-in. black oak tree; copper nail and washer 622.58
Oregon-Ripley county line, 10 ft. N. of rd., in root on S. side of 14-in. black oak tree; crossed iron nails 628.8
Gatewood, 2.4 mi. NW. of, in NW $\frac{1}{4}$ sec. 6, T. 22 N., R. 1 W., on SW. slope of prominent ridge and about 300 ft. from summit, 66 ft. N. of rd. in front of triangular-blazed 18-in. black oak tree, in top of large boulder; standard tablet stamped "T T 2 G 1936" 717.467
Opposite house, 40 ft. W. of rd., in root on E. side of 28-in. black oak tree; crossed iron nails 651.9
Gatewood, 1.2 mi. NW. of, 40 ft. NE. of rd. at spring branch, in root on SW. side of 18-in. white oak tree; copper nail and washer 623.27
Rd. fork N., 30 ft. E. of junction of, in root on NW. side of twin 8-in. black oak tree; crossed iron nails 608.3
Gatewood, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 22 N., R. 1 W., 80 ft. S. and 90 ft. W. of SW. corner of main part of post office building, 25 ft. S. and 15 ft. E. of rd. forks, in concrete post; standard tablet stamped "T T 1636 E R A 1935" 543.128
Top of ridge, 40 ft. N. and 130 ft. E. of T-rd. S., in root on SE. side of 30-in. black oak tree; crossed iron nails 624.4
Gatewood, 1.3 mi. E. of, 35 ft. N. and 85 ft. E. of small wooden bridge, in root on SW. side of 26-in. white oak tree; copper nail and washer 536.64
T-rd. S., 35 ft. N. and 9 ft. E. of, in root on NW. side of 28-in. white oak tree; crossed iron nails 617.6
Gatewood, 2.4 mi. E. of, 35 ft. N. of rd., 130 ft. SW. of SW. corner of house, in root on NW. side of 24-in. white oak tree; copper nail and washer 536.32

Gatewood, 3.8 mi. E. of, along Gatewood-Ponder road, 125 ft. N. and 235 ft. W. of iron pipe at quarter cor. between secs. 2 and 11, T. 22 N., R. 1 W., 50 ft. N. and 10 ft. W. of T-rd. S., 1 ft. S. of fence, in concrete post; standard tablet stamped "T T 1635 E R A 1935" 539.779

Rd. fork S., 35 ft. E. and 20 ft. S. of, in root on S. side of leaning 14-in. white oak tree; crossed iron nails 608.4

Gatewood, 5.2 mi. E. of, 1.9 mi. W. of Ponder, 20 ft. S. of rd., 30 ft. W. of lane S., in root on N. side of 16-in. black oak tree; copper nail and washer 639.48

6. WEST ALONG SOUTH BORDER INCLUDING THAT PART OF THE LINE IN ELM STORE QUADRANGLE (MO.-ARK.) (Continued from Doniphan quadrangle; see line no. 8.)

T. 22 N., R. 1 E., W. sixteenth cor. between secs. 30 and 31, 120 ft. W. and 36 ft. N. of rd. fork N., in root on SE. side of 10-in. black oak tree; copper nail and washer 505.03

T-rd. W., 12 ft. S. and 18 ft. E. of, at gate post, in root on E. side of 12-in. white oak tree; crossed iron nails 439.5

T. 22 N., R. 1 W., in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, on ridge, 40 ft. NW. of rd. fork NE., in root on E. side of 26-in. black oak tree; copper nail and washer 595.12

Rd. fork NW., 60 ft. W. and 18 ft. N. of, in root on SW. side of 14-in. black oak tree; crossed iron nails 608.7

T. 21 N., R. 1 W., in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, 110 ft. NE. of ford across spring branch, 15 ft. NW. of rd., in root on S. side of 12-in. elm tree; copper nail and washer 512.02

Warm Springs, Ark., about 1 mi. N. of, 12 ft. E. of picket fence corner at W. sixteenth cor. sec. 2, T. 21 N., R. 1 W., 26 ft. E. of rd., 16 ft. E. of iron pin on Mo.-Ark. State line, in concrete post; standard tablet stamped "T T 4 G 1936" 569.728

Mo.-Ark. State line, 14 ft. N. of fence, 300 ft. W. of lane through field, in root on SW. side of 12-in. post oak tree; crossed iron nails 509.5

T. 21 N., R. 1 W., in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, 24 ft. N. and 20 ft. W. of rd. junction, 210 ft. N. of J. G. Landry's house, in root on N. side of 28-in. black oak tree; copper nail and washer 535.33

T. 21 N., R. 1 W., in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, 32 ft. SW. of rd. fork W., 8 ft. N. of main rd., in root on S. side of triangular-blazed 13-in. white oak tree; copper nail and washer 526.63

Tucker, 4.2 mi. SW. of, by rd., 51 ft. W. of iron pin on Mo.-Ark. State line at E. sixteenth cor. sec. 5, T. 21 N., R. 1 W., 11 ft. N. and 25 ft. W. of NW. corner of Amen Yarger's house, in concrete post; standard tablet stamped "T T 5 G 1936" 563.834

T. 21 N., R. 1 W., in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, 9 ft. S. of rd. W., 20 ft. W. of main N.-S. rd., in root on E. side of triangular-blazed 21-in. black oak tree; copper nail and washer 632.53

T. 22 N., R. 1 W., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, 15 ft. S. and 42 ft. W. of T-rd. S., in root on N. side of 14-in. black oak tree; copper nail and washer 621.96

Rd. forks, 70 ft. SE. of, 40 ft. E. of spring branch, 12 ft. N. of rd., in root on SW. side of 12-in. white oak tree; crossed iron nails 539.5

T. 22 N., R. 1 W., in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, 30 ft. SW. of rd. forks, 16 ft. N. of rd., in root on S. side of 14-in. black oak tree; copper nail and washer 498.11

T. 22 N., R. 2 W., 437 ft. N. and 420 ft. W. of iron pin at S. sixteenth cor. on E. side of sec. 36, 22 ft. N. and 420 ft. W. of rd. corner from S. to W., 105 ft. S. of SE. corner of L. A. Reed's house; in limestone ledge; standard tablet stamped "T T 6 G 1936" 518.055

Top of ridge, at hill crest, 10 ft. N. of rd., in root on S. side of 30-in. white oak tree; crossed iron nails 511.8

T. 22 N., R. 2 W., in SW. cor. sec. 36, 23 ft. W. of NW. corner of Griswold store, 56 ft. S. and 170 ft. E. of T-rd. E., in root on N. side of 15-in. walnut tree; copper nail and washer 420.77

Top of ridge, 15 ft. S. of rd., in root on N. side of 32-in. black oak tree; crossed iron nails 477.1

T. 22 N., R. 2 W., in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, 108 ft. E. and 45 ft. S. of T-rd. S., in root on NW. side of 36-in. elm tree; copper nail and washer 383.19

Myrtle, 5.9 mi. E. of, by rd., at Stubblefield Ferry, in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 22 N., R. 2 W., 33 ft. N. of E. landing of ferry across Eleven Point River, 167 ft. S. and 29 ft. W. of S. L. Huddleston's house, in concrete post; U. S. C. E. tablet stamped "Memphis Engineer District W V 15 1935" 399.194

Reference mark, 42 ft. S. of tablet, in root on N. side of blazed 27-in. white oak tree; copper nail and washer 396.18

T. 22 N., R. 2 W., in SE $\frac{1}{4}$ sec. 34, 27 ft. S. of rd., 171 ft. W. of W. landing of ferry across Eleven Point River, in root on SE. side of 36-in. black oak tree; copper nail and washer 370.76

T. 22 N., R. 2 W., S. sixteenth cor. between secs. 33 and 34, 70 ft. E. and 21 ft. N. of T-rd. S., in root on S. side of 14-in. black oak tree; copper nail and washer 422.57

T. 22 N., R. 2 W., in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, 165 ft. E. and 60 ft. N. of crossroads, in Peace Valley schoolyard, in root on NE. side of 34-in. black oak tree; copper nail and washer 493.57

Myrtle, 3 mi. E. of, along County Route H, 26 ft. N. and 42 ft. W. of highway on curve at rd. E. and fence N., 0.2 mi. N. of S. cor. secs. 31 and 32, T. 22 N., R. 2 W., 2 ft. S. and 26 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 7 G 1936" 469.551

Schoolhouse, 126 ft. N. of NW. corner of, 51 ft. S. of rd., in root on N. side of 24-in. white oak tree; crossed iron nails 504.7

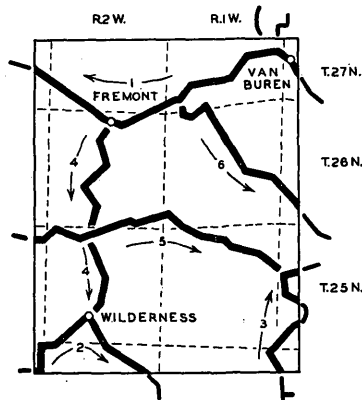
T. 21 N., R. 2 and 3 W., S. sixteenth cor. between secs. 31 and 36, 14 ft. E. and 42 ft. N. of County Route H at junction of rd. NE., in root on SW. side of 16-in. walnut tree; copper nail and washer 534.03

Top of ridge, in front of house, in root on S. side of 12-in. white oak tree; crossed iron nails 552.8

For an additional level line along State Highway 14, refer to United States Coast and Geodetic Survey second-order line, Doniphan to Alton.

VAN BUREN QUADRANGLE
(Latitude 36°45'-37°; longitude 91°-91°15')

Carter, Oregon, Ripley, and Shannon Counties



1. FROM EAST BORDER OF QUADRANGLE WEST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO WEST BORDER (second-order line by H. P. Jones in 1933)
(Continued from Grandin quadrangle; see line no. 1.)

	Feet
Chicopee, 0.6 mi. SE. of, along St. Louis-San Francisco R. R., in SW. corner of wooden trestle no. 355.4; copper nail and washer	459.20
Chicopee, 215 ft. S. of St. Louis-San Francisco R. R. station, 40 ft. N. and 45 ft. W. of rd. crossing, in root on E. side of 36-in. black oak tree; copper nail and washer	474.43
Van Buren, in SW. corner of courthouse yard; iron post stamped "Prim Trav Sta No 32 F 1924 Mo 475"	474.851
Van Buren, at S. limits of, on U. S. Highway 60, on E. end of S. abutment of bridge; standard U. S. G. S. gaging station tablet	491.365
Van Buren, 1.3 mi. W. of, along St. Louis-San Francisco R. R., in SE. corner of wooden trestle no. 353.2; copper nail and washer	472.31
Van Buren, 1.9 mi. W. of, 3 mi. E. of Cummings, 250 ft. W. of St. Louis-San Francisco R. R., 78 ft. S. 15° E. of rd. forks; iron post stamped "Prim Trav Sta No 33 F 1924 Mo 470" (Description and elevation of new location established November 27, 1933)	467.558
Cummings, 2.1 mi. E. of, along St. Louis-San Francisco R. R., 100 ft. W. of milepost no. 352, 55 ft. N. of track, 10 ft. N. of rd., in root of elm tree; copper nail and washer	482.52
Cummings, 1.3 mi. E. of, along St. Louis-San Francisco R. R., in S. end of W. header of trestle no. 351.2; copper nail and washer	495.72
Cummings, 90 ft. N. of St. Louis-San Francisco R. R., 100 ft. E. of abandoned store building, 7 ft. E. of SE. corner of ice house, in limestone ledge; standard tablet stamped "Prim Trav Sta No 34 F 1924 Mo 520"	520.495
Cummings, 0.8 mi. W. of, along St. Louis-San Francisco R. R., 60 ft. W. of track, 100 ft. SW. of rd. crossing, 5 ft. S. of right-of-way, in root of hickory tree; copper nail and washer	537.70
Cummings, 1.4 mi. W. of, along St. Louis-San Francisco R. R., 75 ft. N. of rd., at W. end of large cut, 8 ft. N. of track, in limestone ledge; chiseled square	572.28
Cummings, 2.5 mi. W. of, 25 ft. N. of rd., 70 ft. SW. of George Whittiger's house; iron post stamped "Prim Trav Sta No 35 F 1924 Mo 562"	562.399
Fremont, 3.4 mi. E. of, along St. Louis-San Francisco R. R., in S. end of W. header of wooden trestle no. 347.2; copper nail and washer	559.02
Fremont, 2.6 mi. E. of, along St. Louis-San Francisco R. R., in S. end of W. header of wooden trestle no. 346.4; copper nail and washer	569.00
Fremont, 1.6 mi. E. of, along St. Louis-San Francisco R. R., 100 ft. S. and 30 ft. E. of rd. crossing, 55 ft. N. and 30 ft. W. of T-rd. N., in N. head wall of concrete culvert; chiseled square	580.54
Fremont, 0.9 mi. E. of, along St. Louis-San Francisco R. R., 70 ft. N. and 30 ft. E. of rd. crossing, 50 ft. S. and 30 ft. E. of T-rd. S., in root on SW. side of 12-in. hackberry tree; copper nail and washer	594.64
Fremont, in E. end of doorsill at entrance to Fremont State Bank; standard tablet stamped "Prim Trav Sta No 36 F 1924 Mo 621"	621.388
Reference mark, at SW. corner of State Bank Building, in concrete sidewalk; chiseled square	620.93
Fremont, 0.8 mi. W. of, along St. Louis-San Francisco R. R., 200 ft. E. of milepost no. 343, in NE. corner of N. end of stone box culvert; chiseled square	669.47
Fremont, 1.9 mi. W. of, along St. Louis-San Francisco R. R., 8 ft. N. of rail opposite third telegraph pole E. of pole no. 342, large flint rock; highest point	755.32
Fremont, 2.9 mi. W. of, 4 mi. E. of Low Wossie, 300 ft. W. of T-rd. N., 60 ft. W. of milepost no. 341, 40 ft. N. of St. Louis-San Francisco R. R. at public rd. crossing; iron post stamped "Prim Trav Sta No 37 F 1924 Mo 735"	735.673
Low Wossie, 2.2 mi. E. of, along St. Louis-San Francisco R. R., in S. end of W. header of wooden trestle no. 359.7; copper nail and washer	743.56
Low Wossie, 1.9 mi. E. of, along St. Louis-San Francisco R. R., in S. end of W. header of trestle no. 358.8; copper nail and washer	758.40
Low Wossie, 1 mi. E. of, along St. Louis-San Francisco R. R., 90 ft. N. of track, directly opposite rd. crossing under trestle, on N. property line of rd., in root of black oak tree; copper nail and washer	782.24

2. FROM WEST BORDER OF QUADRANGLE EAST TO WILDERNESS, THENCE SOUTHEAST TO SOUTH BORDER INCLUDING PART OF THE LINE IN BANDYVILLE QUADRANGLE (by W. R. Broadus in 1925)

Turners Mill, 0.3 mi. E. of, 5 mi. W. of Wilderness, 150 ft. NW. of Surprise School, at foot of N. bluff of Eleven Point River Valley, 20 ft. N. and 10 ft. above rd., in top of limestone ledge, 5 in. N. of face, standard tablet stamped "72 B 1925"	516.305
Reference mark, 175 ft. S. 70° E. of tablet, 22 ft. N. and 8 ft. E. of schoolhouse, in root on S. side of 8-in. red oak tree; copper nail and washer	515.46
Turners Mill, 1 mi. NE. of, at sawmill camp, 40 ft. N. of rd., at foot of hill, in root on SE. side of 15-in. red oak tree; copper nail and washer	517.78
Wilderness, 3.4 mi. W. of, at top of River Hill, 15 ft. SW. of Surprise-Wilderness road, in root on NW. side of 20-in. black oak tree; copper nail and washer	813.95
Wilderness, 2.9 mi. W. of, 67 ft. SW. of junction of Surprise-Wilderness and Alton roads, 22 ft. NW. of rd. to Surprise, in top of boulder; standard tablet stamped "73 B 1925"	829.889
Reference mark, 50 ft. N. 70° E. of tablet, 15 ft. W. of rd. forks, in root on S. side of 20-in. red oak tree; copper nail and washer	828.50
Wilderness, 1.8 mi. W. of, 15 ft. S. of rd., opposite G. W. Loue's house, in root on E. side of 24-in. post oak tree; copper nail and washer	853.61
Wilderness, 1.1 mi. W. of, 17 ft. W. and 13 ft. N. of T-rd., in root on SE. side of 14-in. black oak tree; copper nail and washer	908.49
Wilderness, 0.4 mi. W. of, 20 ft. N. of T-rd. S., in root on S. side of 15-in. red oak tree; copper nail and washer	842.07
Wilderness, 0.2 mi. E. of post office, 20 ft. S. and 10 ft. W. of junction of Alton-Fremont and Pine roads, in concrete post; standard tablet stamped "74 B 1925"	843.429
Reference mark, 105 ft. E. of tablet, in root on N. side of 15-in. hickory tree; copper nail and washer	840.20
Wilderness, 1.4 mi. SE. of post office, on S. side of Pine-Wilderness road, 40 ft. SE. of drain crossing, in root on W. side and 18 in. from 20-in. white oak tree; copper nail and washer	720.76
Wilderness, 2.2 mi. SE. of post office, 7 ft. N. of Pine-Wilderness road, at rd. junction, on top of ridge, in root of 4-in. post oak tree; copper nail and washer	862.89
Wilderness, 3.1 mi. SE. of post office, 125 ft. NW. of Pine-Wilderness road at small creek crossing, 55 ft. NW. of old tramway, 11 ft. S. of triangular-blazed 7-in. red oak tree, 4 ft. S. of large triangular-shaped boulder, in rock outcrop; standard tablet stamped "75 B 1925"	795.709
Reference mark, 49 ft. S. 25° E. of tablet, in root on W. side of 24-in. black oak tree; copper nail and washer	791.78
Wilderness, 4 mi. SE. of, 0.6 mi. NW. of old site of Camp Five, 40 ft. E. of rd. forks, in root on SW. side of 12-in. post oak tree; iron nail and copper washer	909.88
Wilderness, 5 mi. SE. of, 0.5 mi. S. of old site of Camp Five, 20 ft. N. of Pine-Wilderness road, at rd. junction, in root on S. side of 24-in. black oak tree; iron nail and copper washer	846.28
Wilderness, 5.6 mi. SE. of, 1.4 mi. W. and 2.5 mi. N. of Pine, 258 ft. NW. of junction of Pine-Wilderness and Handy roads, 8 ft. W. of Pine-Wilderness road, in top of large boulder; standard tablet stamped "B 76 1925"	776.439
(Given elevation is doubtful since tablet was replaced by another stamped "1 C 1933")	
Reference mark, 188 ft. S. 20° E. of tablet, in root of 12-in. black oak tree; iron nail and copper washer	774.05

(Continued in Gatewood quadrangle; see line no. 1.)

3. NORTH ALONG SOUTH PART OF EAST BORDER OF QUADRANGLE (leveled twice)

(Continued from Gatewood quadrangle; see line no. 1.)

Bennett, 2.5 mi. NW. of, in NE¼ sec. 12, T. 24 N., R. 1 W., on top of divide between Buffalo and Little Barren Creeks, 190 ft. S. of rd. forks, 45 ft. W. of rd. SE., in top of granite boulder; standard tablet stamped "81 B 1925"	756.653
Reference mark, 168 ft. N. 30° W. of tablet, 60 ft. SW. of rd. forks, in root on E. side of 16-in. post oak tree; iron nail and copper washer	759.50
Bennett, 3.1 mi. N. of, 0.7 mi. S. of Little Barren Creek, on N. side of rd., 430 ft. above field, in root on S. side of 20-in. post oak tree; iron nail and copper washer	560.77
Bennett, 3.8 mi. N. of, 120 ft. E. of rd. forks, 150 ft. E. of crossing of Little Barren Creek, 10 ft. S. of rd., in root on N. side of 12-in. red oak tree; iron nail and copper washer	556.44
Bennett, 4.8 mi. N. of, on top of divide between Little and Big Barren Creeks, 1 mi. N. of crossing of Little Barren Creek, 100 ft. N. of rd. forks, 10 ft. W. of rd., in root on W. side of 20-in. red oak tree; copper nail and washer	738.75

(For balance in Grandin quadrangle, see line no. 3.)

Short, 0.9 mi. N. of post office, 10 ft. W. of rd. junction W., in root on E. side of 8-in. hickory tree; copper nail and washer	457.80
Short, 1.8 mi. N. of post office, in Big Barren Creek Valley, 50 ft. S. of junction of timber rd. E., 500 ft. N. of Carter-Ripley county line, in root on N. side of large forked red oak tree; copper nail and washer	460.08
Short, 2.5 mi. N. of post office, 0.9 mi. N. of Carter-Ripley county line, 330 ft. E. of rd. junction, 60 ft. N. of rd., on E. bank of Big Barren Creek, at foot of hill, 5 ft. W. of large boulder, in limestone ledge; standard tablet stamped "83 B 1925"	478.589
Reference mark, 42 ft. S. 60° W. of tablet, 25 ft. N. of rd., in bench on N. side of 12-in. hickory tree; copper nail and washer	477.94
Short, 2.5 mi. N. and 1 mi. E. of post office, 20 ft. S. of rd., on top of ridge, in root on N. side of 20-in. red oak tree; copper nail and washer	794.67

(Continued in Grandin quadrangle; see line no. 4.)

4. FROM FREMONT SOUTH TO WILDERNESS

Fremont, 0.6 mi. SW. of, 10 ft. E. of Fremont-Wilderness road, 100 ft. S. of rd. forks, in root on W. side of 30-in. post oak tree; copper nail and washer	633.94
Fremont, 2 mi. SW. of, 20 ft. W. of Fremont-Wilderness road, 70 ft. S. of lane W. to farmhouse, in root on E. side of 24-in. oak tree; copper nail and washer	703.19
Fremont, 2.8 mi. SW. of, 0.5 mi. S. of house, 25 ft. W. of Fremont-Wilderness road at dim rd. junction, 10 ft. S. of rail fence at upper end of field, in concrete post; standard tablet stamped "89 B 1925"	762.709
Reference mark, 120 ft. S. 30° E. of tablet, 20 ft. W. of rd., in root on E. side of tree; copper nail and washer	764.54
Fremont, 3.7 mi. S. of, 20 ft. W. of Fremont-Wilderness road, 450 ft. S. of top of ridge, in root on E. side of 24-in. red oak tree; copper nail and washer	933.37
Fremont, 4.8 mi. S. of, on N. side of Fremont-Wilderness road, on top of ridge, in root on S. side of 24-in. black oak tree; copper nail and washer	983.20
Fremont, 5.5 mi. S. of, 410 ft. S. of junction of rd. W., 8 ft. W. of Fremont-Wilderness road, on top of ridge, in concrete post; standard tablet stamped "90 B 1925"	1,001.984
Reference mark, 30 ft. N. 70° E. of tablet, in root on W. side of 16-in. black oak tree; copper nail and washer	1,000.93
Fremont, 6.6 mi. S. of, 30 ft. W. of Fremont-Wilderness road, 850 ft. N. of rd. junction on top of ridge, in root on E. side of 20-in. red oak tree; copper nail and washer	931.28
Fremont, 7.5 mi. S. of, on W. side of Fremont-Wilderness road, 50 ft. N. of rd. leading to Abrams' sawmill, in Cotton Pond Hollow, 0.5 mi. S. of crossing of Big Barren Creek, in root on W. side of 18-in. post oak tree; copper nail and washer	811.49
Fremont, 8.4 mi. S. of, about 5 mi. N. of Wilderness, 1.4 mi. S. of crossing of Big Barren Creek, 15 ft. W. of Fremont-Wilderness road, at junction of rd. SW., in concrete post; standard tablet stamped "91 B 1925"	855.187
Reference mark, 12 ft. S. 45° W. of tablet, in root on N. side of 8-in. white oak tree; copper nail and washer	855.26
Fremont, 9.5 mi. S. of, 40 ft. E. of Fremont-Wilderness road, at junction of rd. NE., in root on N. side of 16-in. post oak tree; copper nail and washer	966.48
Fremont, 10.6 mi. S. of, 20 ft. E. of Fremont-Wilderness road, 320 ft. S. of point where rd. leaves old tramway roadbed, 100 ft. S. of junction of dim rd., in root on W. side of 24-in. black oak tree; copper nail and washer	979.65
Wilderness, 1.8 mi. N. of, 115 ft. W. of rd. N. from crossroads, 45 ft. S. of E.-W. rd., in concrete post; standard tablet stamped "1 B 1926"	928.932
Reference mark, 63 ft. E. of tablet, in root on NW. side of 15-in. black oak tree; copper nail and washer	926.06
Wilderness, 0.5 mi. N. of, 15 ft. W. and 10 ft. S. of T-rd. S., in root on E. side of 16-in. red oak tree; copper nail and washer	805.07

5. EAST THROUGH CENTER OF QUADRANGLE (by B. A. Barnes in 1935)

T. 25 N., R. 3 W., in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, 31 ft. N. and 147 ft. E. of junction of trail N., in root on SW. side of 14-in. black oak tree; copper nail and washer	975.73
Rd. fork S., 27 ft. E. and 32 ft. N. of, in root on N. side of 10-in. black oak tree; crossed iron nails	1,004.1
T. 25 N., R. 3 W., near center sec. 1, 11 mi. SW. of Fremont, by rd., 0.6 mi. W. of old tramroad, on timbered hill, 330 ft. W. of rd. forks, 40 ft. S. of rd., in concrete post; standard U. S. C. & G. S. triangulation station tablet designated "Tram 1930"	1,032.127
Reference mark no. 1, 89 ft. N. of station, in concrete post; standard U. S. C. & G. S. reference mark tablet	1,030.306
Reference mark no. 2, 88 ft. NE. of station, in concrete post; standard U. S. C. & G. S. reference mark tablet	1,026.370
T. 25 N., R. 2 W., in NW $\frac{1}{4}$ sec. 6, 40 ft. N. and 280 ft. W. of T-rd. W., in root on S. side of 40-in. black oak tree; copper nail and washer	1,006.69
T-rd. S., 27 ft. W. and 30 ft. N. of, in root on SE. side of 14-in. pine tree; crossed iron nails	996.9
T. 25 N., R. 2 W., in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, 1 mi. W. of C. C. C. Camp no. F-2, 84 ft. E. and 30 ft. N. of rd. fork S., in root on SE. side of 16-in. black oak tree; copper nail and washer	995.25
Rd. fork S., 30 ft. S. and 30 ft. W. of, in root on N. side of 12-in. hickory tree; crossed iron nails	956.3
In center of W. head wall of concrete culvert; chiseled square	817.7
T. 25 N., R. 2 W., in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, 15 ft. N. and 48 ft. E. of T-rd. E., in root on S. side of 14-in. black oak tree; copper nail and washer	824.91
Center of rd., 31 ft. S. of, in root on NE. side of 22-in. black oak tree; crossed iron nails	787.5
T. 25 N., R. 2 W., in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, 0.3 mi. E. of Pine Grove School, on top of ridge, 14 ft. S. of rd., in root on N. side of 18-in. post oak tree; copper nail and washer	838.40
Hill, in front yard of house, 32 ft. S. of rd., in root on N. side of 16-in. black oak tree; crossed iron nails	800.2
T. 26 N., R. 2 W., S. sixteenth cor. between secs. 34 and 35, 38 ft. N. and 28 ft. W. of T-rd. S., 44 ft. N. of rail fence, in concrete post; standard tablet stamped "T T 1619 E R A 1935"	735.005
Top of ridge, 12 ft. W. and 21 ft. S. of rd. fork S., in root on NE. side of 8-in. white oak tree; crossed iron nails	789.1
T. 25 N., R. 2 W., in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, 110 ft. NE. of ford across dry branch, 40 ft. E. of rd., in root on S. side of 10-in. white oak tree; copper nail and washer	688.42
T. 25 N., R. 2 W., in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, 72 ft. SW. of rd. fork N., 6 ft. S. of main rd., in root on SW. side of leaning 20-in. white oak tree; copper nail and washer	665.22
T. 25 N., R. 2 W., in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, 75 ft. W. of rd. corner from NW. to E., about 350 ft. N. of Albert Brawley's house, 14 ft. N. and 2 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 1620 E R A 1935"	661.615
Junction of E.-W. rd. and new C. C. rd., 76 ft. W. and 9 ft. S. of, in root on NE. side of 14-in. hickory tree; crossed iron nails	630.4

T. 25 N., R. 2 W., in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, 141 ft. NW. of ford across Big Barren Creek, 15 ft. N. of rd., in root on W. side of 20-in. white oak tree; copper nail and washer	616.14
Big Barren Creek, 100 ft. S. of ford across, 24 ft. E. of rd., in triangle formed by T-rd. E., in root on NE. side of 21-in. white oak tree; crossed iron nails	611.4
T. 25 N., R. 1 W., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, 57 ft. S. of rd., on NW. corner of concrete well block in schoolyard, 6 ft. N. and 6 ft. E. of NE. corner of schoolhouse; chiseled square	648.65
T. 25 N., R. 1 W., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, 20 ft. N. and $\frac{1}{2}$ ft. W. of rd. corner from W. to S., 2 ft. S. and 18 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 1621 E R A 1935"	591.373
T. 25 N., R. 1 W., in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, 155 ft. E. and 17 ft. N. of crossroads, in root on S. side of 20-in. white oak tree; copper nail and washer	567.86
T. 25 N., R. 1 W., in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 4, 45 ft. W. of ford across Big Barren Creek, 17 ft. S. of rd., in root on SE. side of 10-in. white oak tree; copper nail and washer	540.26
T. 25 N., R. 1 W., about 0.1 mi. S. of quarter cor. between secs. 9 and 10, 27 ft. S. and 24 ft. W. of T-rd. N., in root on SW. side of 12-in. black oak tree; copper nail and washer	530.24
T. 25 N., R. 1 W., in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, 66 ft. S. of SW. corner of house, 30 ft. N. of rd., in root on SE. side of 20-in. black oak tree; copper nail and washer	511.90
Hickory Grove School. in SW $\frac{1}{4}$ sec. 11, T. 25 N., R. 1 W., 243 ft. N. and 60 ft. W. of rd. forks, $\frac{1}{6}$ ft. S. and 27 ft. E. of SE. corner of schoolhouse, in concrete post; standard tablet stamped "T T 1631 E R A 1935"	506.721
Rd. fork SW., 40 ft. W. and 24 ft. S. of, in root on NE. side of 18-in. black oak tree; crossed iron nails	490.4

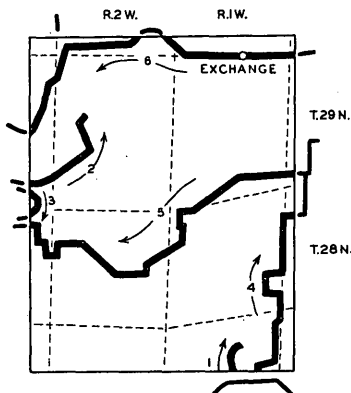
6. IN NORTHEAST QUARTER OF QUADRANGLE

Van Buren, 5.3 mi. W. of, along U. S. Highway 60, in NE $\frac{1}{4}$ sec. 5, T. 26 N., R. 1 W., 95 ft. S. and 60 ft. W. of junction of highway and rd. S. to Lewis Cave, 95 ft. S. of W. end of highway bridge, in concrete post; standard tablet stamped "T T 1615 E R A 1935"	534.647
Rd. fork W., 72 ft. W. and 12 ft. N. of, in root on SW. side of 8-in. pine tree; crossed iron nails	624.2
T. 26 N., R. 1 W., in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, 1 mi. S. of junction of U. S. Highway 60 and County Route C, at hill top, 44 ft. W. of highway, about 250 ft. NW. of junction of trail S., in root on NE. side of 22-in. white oak tree; copper nail and washer	753.37
Top of ridge, 45 ft. S. of County Route C, in root on NE. side of 12-in. black oak tree; crossed iron nails	622.6
T. 26 N., R. 1 W., in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, 2 mi. S. of junction of U. S. Highway 60 and County Route C, at top of ridge, 72 ft. E. and 52 ft. N. of highway at junction of rd. N., in root on S. side of 14-in. black oak tree; copper nail and washer	699.27
Top of hill, 44 ft. N. and 21 ft. E. of County Route C at junction of dim trail N., in root on SW. side of 22-in. white oak tree; crossed iron nails	927.9
T. 26 N., R. 1 W., in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, 3 mi. S. of junction of U. S. Highway 60 and County Route C, 65 ft. E. and 72 ft. N. of highway at junction of rd. E., in root on W. side of 26-in. white oak tree; copper nail and washer	903.95
Rd. at curve, 55 ft. E. of, in root on W. side of 16-in. black oak tree; crossed iron nails	900.4
T. 26 N., R. 1 W., in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, 4.5 mi. S. of junction of U. S. Highway 60 and County Route C, 45 ft. E. of rd., in root on W. side of 14-in. black oak tree; copper nail and washer	927.34
Eastwood, 2.3 mi. W. of, along old rd., 4.8 mi. S. of junction of U. S. Highway 60 and County Route C, in SE $\frac{1}{4}$ sec. 21, T. 26 N., R. 1 W., 25 ft. N. and 75 ft. E. of junction of County Route C and old Eastwood road, 15 ft. W. of triangular-blazed 14-in. white oak tree; in concrete post; standard tablet stamped "T T 1616 E R A 1935"	938.393
Rd. fork SE., 12 ft. S. and 6 ft. W. of, in root on NE. side of 8-in. black oak tree; crossed iron nails	909.9
Eastwood, 1.3 mi. W. of, along old rd., 14 ft. S. of rd., 36 ft. E. of rd. corner, in root on N. side of 10-in. black oak tree, in fence corner, copper nail and washer	925.72
Crossroads, 16 ft. E. and 21 ft. S. of, in root on NW. side of 20-in. white oak tree; crossed iron nails	907.2
Eastwood, 0.5 mi. S. and 0.5 mi. E. of, cor. secs. 23, 24, 25, and 26, T. 26 N., R. 1 W., 28 ft. N. and 9 ft. E. of crossroads, in root on SW. side of 22-in. white oak tree; copper nail and washer	927.25
Crossroads, 45 ft. S. and 12 ft. W. of, in root on SE. side of 20-in. black oak tree; crossed iron nails	917.6
Eastwood, 1.9 mi. SE. of, 18 ft. N. of rd., at top of hill, in root on N. side of 10-in. black oak tree; copper nail and washer	959.50
Saddle of ridge, 20 ft. E. of rd., in root on E. side of 10-in. black oak tree; crossed iron nails	848.8
Eastwood, 3.2 mi. SE. of, at top of long hill, 28 ft. W. of rd. at sharp curve, in root on E. side of 12-in. black oak tree; copper nail and washer	819.21
Eastwood, 3.5 mi. SE. of, in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 26 N., R. 1 E., 12 ft. N. (? S.) and 44 ft. W. of Barren Creek road and dim cross rd., at foot of long hill, in concrete post; standard tablet stamped "T T 1617 E R A 1935"	644.889

(Continued in Grandin quadrangle; see line no. 8.)

CARDAREVA QUADRANGLE
(Latitude 37° - $37^{\circ}15'$; longitude 91° - $91^{\circ}15'$)

Carter, Reynolds, and Shannon Counties



1. FROM SOUTH BORDER OF QUADRANGLE NORTH AND EAST TO CURRENT RIVER (second-order line by H. P. Jones in 1933)

	<u>Feet</u>
T. 27 N., R. 1 W., in NW $\frac{1}{4}$ sec. 22, about 1 mi. N. of St. Louis-San Francisco R. R., along rd. to House Creek, 7 ft. E. of rd., in root on NW. side of 22-in. post oak tree; copper nail and washer	623.60
T. 27 N., R. 1 W., in SE $\frac{1}{4}$ sec. 16, along rd. to House Creek, 135 ft. W. of dim rd. fork N., 10 ft. N. of rd., in root on E. side of 15-in. post oak tree; copper nail and washer	784.98
T. 27 N., R. 1 W., in NE $\frac{1}{4}$ sec. 16, 43 ft. E. of rd. crossing, at House Creek, in E. end of large sandstone rock; standard tablet stamped "10 J 1933"	589.668
T. 27 N., R. 1 W., in SE $\frac{1}{4}$ sec. 9, 15 ft. N. end 20 ft. W. of rd. forks, 85 ft. SW. of SW. corner of H. F. Sanders' house, in root on NE. side of twin oak tree; copper nail and washer	712.07
T. 27 N., R. 1 W., in SE $\frac{1}{4}$ sec. 4, 63 ft. E. (downstream) of mouth of spring branch, on W. bank of Current River, at foot of bluff below mouth of Mill Creek, in rock ledge; standard tablet stamped "11 J 1933"	470.678
2. FROM POINT NEAR CENTER OF WEST BORDER OF QUADRANGLE EAST AND NORTH TO BLAIR CREEK DAM SITE

T. 29 N., R. 3 W., in NW $\frac{1}{4}$ sec. 35, 8 mi. E. of Eminence, 5 mi. W. of Powder Mill ford, along County Route C, 58 ft. E. of highway at rd. S., in root on W. side of 11-in. oak tree; copper nail and washer	986.81
T. 29 N., R. 3 W., in SW $\frac{1}{4}$ sec. 25, 4.5 mi. W. of Powder Mill ford, along County Route C, about 200 ft. E. of top of hill, 40 ft. N. of highway, in root on S. side of 18-in. oak tree; copper nail and washer	1,083.57
T. 29 N., R. 3 W., in SE $\frac{1}{4}$ sec. 25, 4 mi. SW. of Powder Mill ford, along County Route C, 36 ft. N. 45 $^{\circ}$ W. of highway at rd. N., 10 ft. N. of mail box, in limestone post; standard tablet stamped "7 J 1933 987"	986.837
T. 29 N., R. 2 W., near line between secs. 19 and 30, about 2.5 mi. SW. of Powder Mill ford, along County Route C, 95 ft. W. of highway, at iron pipe culvert, in root on N. side of 14-in. hickory tree; copper nail and washer	965.87
Powder Mill ford, 1.5 mi. SW. of, along County Route C, in NW $\frac{1}{4}$ sec. 20, T. 29 N., R. 2 W., 40 ft. W. of highway at rd. N., in root on S. side of 16-in. oak tree; copper nail and washer	923.46
Powder Mill ford, 0.8 mi. SW. of, along County Route C, in NE $\frac{1}{4}$ sec. 20, T. 29 N., R. 2 W., on N. side of highway at top of steep hill, 21 ft. N. of triangular-blazed 12-in. oak tree, in limestone post set flush with ground; standard tablet stamped "8 J 1933 898"	897.566
Powder Mill ford, about 0.5 mi. W. of, along rd. to Williams ford, in SE $\frac{1}{4}$ sec. 17, T. 29 N., R. 2 W., 15 ft. S. of rd. forks, in root on N. side of 20-in. oak tree; copper nail and washer	615.00
T. 29 N., R. 2 W., in NW $\frac{1}{4}$ sec. 17, 26 ft. N. and 35 ft. W. of rd. at lane N., in top of limestone boulder; chiseled square	617.87
T. 29 N., R. 2 W., near center sec. 18, 700 ft. NE. (downstream) of mouth of Blair Creek, 47 ft. N. of E. bank of Current River, 11 ft. S. of rd., 4 ft. NE. of triangular-blazed 20-in. oak tree; in top of granite boulder buried flush with ground; standard tablet stamped "9 J 1933 570"	569.609
3. NEAR CENTER OF WEST BORDER OF QUADRANGLE (by E. C. Bibbee in 1914)

Shawnee, 1 mi. SE. of, 100 ft. S. of Reed School, in root of black oak tree; copper nail	814.62
Flip, 0.8 mi. N. of post office, 200 ft. S. of divide on hill, 20 ft. W. of rd., in root of black oak tree; copper nail	924.20
Flip post office, in foundation at the SW. corner of building, standard tablet stamped "Mo 860"	859.576

4. NORTH ALONG SOUTH HALF OF EAST BORDER OF QUADRANGLE (by M. J. Harden in 1924)

Van Buren, 0.8 mi. N. of, at rd. forks, in fence line on W. side of rd., in root of 6-in. hickory tree; copper nail and washer	488.93
Van Buren, 2 mi. N. of, on W. side of rd., in root of 20-in. gum tree; copper nail and washer	619.72
Van Buren, 2.5 mi. N. of, 340 ft. S. of rd. forks, 100 ft. E. of rd., on top of large rock; standard tablet stamped "Prim Trav Sta No 38 F 1924 790"	789.865
Reference mark, 39 ft. W. of tablet, 60 ft. E. of rd., in root of 10-in. black oak tree; copper nail and washer	786.88
Van Buren, 3.8 mi. N. of, 150 ft. N. of rd. forks, on E. side of rd., in root of 12-in. white oak tree; copper nail and washer	710.53
Van Buren, 4.7 mi. N. of, on SE. side of junction of dim rd. E., in root of 10-in. black oak tree; copper nail and washer	597.51
Clear Spring School, 280 ft. S. of, 100 ft. W. of rd., 30 ft. N. of Chilton's yard fence, in limestone ledge; standard tablet stamped "Prim Trav Sta No. 39 F 1924 Mo 555"	555.487
Reference mark, 37 ft. N. of tablet, 240 ft. S. of Clear Spring School, 100 ft. W. of rd., in root of 20-in. locust tree; copper nail and washer	555.60
Clear Spring School, 0.9 mi. N. of, at junction of dim rd. E., 150 ft. SW. of small house on hillside, in fence line, in root of 24-in. white oak tree; copper nail and washer	571.13
Clear Spring School, 2 mi. N. of, on E. side of rd., 150 ft. S. of barn, in root of 12-in. walnut tree; copper nail and washer	596.64
Clear Spring School, 3 mi. N. of, on W. side of rd., 80 ft. SE. of house, in root of 12-in. white oak tree; copper nail and washer	625.66

(Continued in Ruble quadrangle; see line no. 1.)

5. WEST THROUGH CENTER OF QUADRANGLE

Pine Valley School, 0.6 mi. W. of, at rd. forks, in root of 10-in. white oak tree; copper nail and washer	756.01
Pine Valley School, 1.3 mi. W. of, at rd. forks, in root of 16-in. white oak tree; copper nail and washer	829.11
T. 28 N., R. 1 W., in NW $\frac{1}{4}$ sec. 1, 1.5 mi. W. of Pine Valley School, on top of divide between Pine Valley and Little Paint Rock Creek, 30 ft. W. of rd. crossing, in large rock; standard tablet stamped "Prim Trav Sta No 45 F 1924 Mo 892"	892.074
Reference mark, in NE. angle of crossroads, in root of 10-in. white oak tree; copper nail and washer	891.69
Pine Valley School, 2 mi. W. of, on N. side of rd., 35 ft. NE. of blacksmith shop, in root of 10-in. white oak tree; copper nail and washer	709.35
Pine Valley School, 2.6 mi. W. of, at rd. forks, on W. side of rd., in root of 8-in. white oak tree; copper nail and washer	662.29
Pine Valley School, 3.2 mi. W. of, at rd. forks, on N. side of rd., in root of 12-in. hickory tree; copper nail and washer	593.31
Paint Rock School, 0.2 mi. E. of, at rd. forks, on N. side of rd., in root of 12-in. white oak tree; copper nail and washer	542.87
Paint Rock Creek, at edge of, near rd. forks, in root of 6-in. walnut tree; copper nail and washer	524.56
Paint Rock School, 0.6 mi. W. of, near rd. forks, in root of 8-in. elm tree; copper nail and washer	512.25
T. 28 N., R. 1 W., in NW $\frac{1}{4}$ sec. 4, 200 ft. N. of mouth of Paint Rock Creek, 10 ft. N. of rd., in limestone ledge; standard tablet stamped "Prim Trav Sta No 46 F 1924 Mo 532"	531.675
Reference mark, 300 ft. N. of mouth of Paint Rock Creek, on N. side of rd., in root of 14-in. hickory tree; copper nail and washer	531.98
Mouth of Paint Rock Creek, 0.4 mi. W. of, opposite house, in root of 10-in. hard maple tree; copper nail and washer	517.72
Mouth of Paint Rock Creek, 1.2 mi. W. of, 10 ft. W. of gate, in root of 6-in. black oak tree; copper nail and washer	538.12
Beal, 1.2 mi. NE. of, on N. side of rd., on top of ridge, in root of 6-in. elm tree; copper nail and washer	701.85
Beal, 1 mi. NE. of, at rd. forks, on N. side of rd., in root of 14-in. elm tree; copper nail and washer	512.76
Beal, 0.5 mi. N. of on N. side of rd. forks, in root of 8-in. black oak tree; copper nail and washer	533.63
Beal, 200 ft. SW. of post office, 30 ft. S. of picket fence, in large boulder; standard tablet stamped "Prim Trav Sta No 47 F 1924 Mo 559"	559.089
Reference mark, 200 ft. SW. of post office, in root of 36-in. white oak tree; copper nail and washer	564.60
Beal, 0.8 mi. SE. of, on top of ridge, on W. side of rd., in root of 12-in. white oak tree; copper nail and washer	875.25
Beal, 0.9 mi. SE. of, at rd. forks, in root of 12-in. white oak tree; copper nail and washer	898.44
Beal, 1.5 mi. SE. of on top of ridge, in root of 6-in. hickory tree; copper nail and washer	865.05
Beal, 1.8 mi. S. of, 40 ft. E. of rd., in sandstone ledge; standard tablet stamped "H 1924 Mo 890"	890.117
Reference mark, 35 ft. W. of tablet, in root of 12-in. white oak tree; copper nail and washer	890.53
Beal, 2.2 mi. S. of, on E. side of rd., in root of 6-in. hickory tree; copper nail and washer	899.40
Beal, 2.9 mi. SW. of, 300 ft. N. of gate, in root of 14-in. black oak tree; copper nail and washer	903.61
Junction of Black Oak Hollow and Rogers Creek, 1.5 mi. E. of, near dim rd. forks, on N. side of rd., in root of 12-in. black oak tree; copper nail and washer	965.81
Junction of Black Oak Hollow and Rogers Creek, 0.9 mi. E. of, on N. side of rd., in root of 6-in. hickory tree; copper nail and washer	776.81
T. 28 N., R. 2 W., in SW $\frac{1}{4}$ sec. 23, 300 ft. NE. of junction of Black Oak Hollow and Rogers Creek, 20 ft. N. of rd., in large boulder; standard tablet stamped "Prim Trav Sta No 48 F 1924 Mo 678"	678.414

Reference mark, 15 ft. S. of tablet, in root of 12-in. hickory tree; copper nail and washer	673.80
T. 28 N., R. 2 W., in SE $\frac{1}{4}$ sec. 22, 60 ft. W. of Rogers Creek, on N. side of rd., in root of 6-in. white oak tree; copper nail and washer	693.04
T. 28 N., R. 2 W., in SW $\frac{1}{4}$ sec. 22, 1 mi. NE. of Mr. Osborne's house, on N. side of rd., in root of 6-in. white oak tree; copper nail and washer	717.92
T. 28 N., R. 2 W., in SE $\frac{1}{4}$ sec. 21, 0.5 mi. NE. of Mr. Osborne's house, 30 ft. NW. of rd. forks, in large rock; standard tablet stamped "Prim Trav Sta No 49 F 1924 Mo 743"	742.782
Reference mark, 30 ft. SE. of tablet, in root of 10-in. hickory tree; copper nail and washer	742.60
Rocky Creek Falls, 2.3 mi. E. of, 20 ft. NE. of rd. forks, in root of 12-in. white oak tree; copper nail and washer	805.12
Rocky Creek Falls, 1.6 mi. SE. of, 20 ft. S. of rd. forks, on divide between Rocky Creek and Rogers Creek, in root of 6-in. black jack oak tree; copper nail and washer	909.32
Rocky Creek Falls, 0.8 mi. E. of, on N. side of rd., in root of 12-in. white oak tree; copper nail and washer	753.80
Rocky Creek Falls, 300 ft. NE. of, 15 ft. S. of rd., in large boulder; standard tablet stamped "Prim Trav Sta No 50 F 1924 Mo 737"	737.389
Reference mark, 16 ft. SW. of tablet, in root of 10-in. white oak tree; copper nail and washer	735.50
Rocky Creek Falls, 0.1 mi. W. of, at rd. forks, in root of 8-in. white oak tree; copper nail and washer	780.01
Rocky Creek Falls, 0.9 mi. SW. of, at rd. forks, on S. side of rd., in root of 10-in. white oak tree; copper nail and washer	808.54
Rocky Creek Falls, 1.6 mi. W. of, 40 ft. S. of rd., in root of 10-in. white oak tree; copper nail and washer	828.81
Rocky Creek Falls, 2.3 mi. W. of, 150 ft. SE. of E. Dillard's house, in SW. angle of T-rd. S., in root of 12-in. black jack oak tree; copper nail and washer	845.54
Shawnee, about 3 mi. S. of post office, 180 ft. W. of J. G. Jones' house, 140 ft. N. of rd., in large granite boulder; standard tablet stamped "Prim Trav Sta No 51 F 1924 Mo 846"	845.677
Reference mark, 60 ft. N. of tablet, 12 ft. NW. of well, in root of 20-in. white oak tree; copper nail and washer	848.18
Shawnee, 2.2 mi. S. of post office, 150 ft. S. of rd. forks, on E. side of rd., in root of 14-in. white oak tree; copper nail and washer	861.07
Shawnee, 1.2 mi. S. of post office, 56 ft. NW. of Reed School, 8 ft. inside of W. board fence, in root of 8-in. hickory tree; copper nail and washer	816.45

6. WEST ALONG NORTH BORDER OF QUADRANGLE

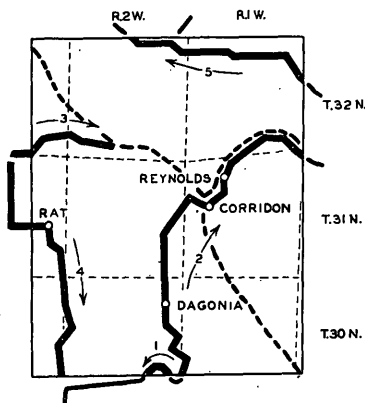
(Continued from Ruble quadrangle; see line no. 1.)

Ellington, 2.2 mi. W. of, 60 ft. N. of T-rd. W., on W. side of rd., in root of 10-in. hickory tree; copper nail and washer	694.29
Ellington, 2.7 mi. W. of, 200 ft. W. of Logan Creek, at rd. forks, in root of 10-in. white oak tree; copper nail and washer	690.70
Exchange, 0.6 mi. E. of, 20 ft. S. of rd. forks, 3 ft. E. of gate, outside of fence, in large rock; standard tablet stamped "H 1924 Mo 703"	703.153
Reference mark no. 1, on S. side of rd., at rd. forks, in root of 18-in. elm tree; copper nail and washer	700.56
Reference mark no. 2, 180 ft. E. of rd. forks, on S. side of rd., in root of 18-in. hickory tree; copper nail and washer	702.13
Exchange, 100 ft. NW. of Poertner's store, in root of 6-in. hickory tree; copper nail and washer	712.47
Exchange, 0.6 mi. W. of, in SW. angle of T-rd. S., in root of 10-in. black oak tree; copper nail and washer	728.79
Exchange, 1.2 mi. W. of, 600 ft. S. of farmhouse, near rd. forks, in root of 16-in. locust tree; copper nail and washer	730.35
Exchange, 2.3 mi. W. of, at junction of lane to house, in root of forked, black oak tree; copper nail and washer	756.27
Sloan School, 0.6 mi. NE. of, 20 ft. W. of rd., in limestone cliff; standard tablet stamped "H 1924 Mo 748"	747.812
Reference mark no. 1, 40 ft. E. of tablet, in root of 6-in. white oak tree; copper nail and washer	747.88
Reference mark no. 2, 20 ft. W. of rd., in limestone ledge; chiseled square	747.99
Sloan School, 0.6 mi. NW. of, at T-rd. W., in root of 10-in. pine tree; copper nail and washer	831.29
Sloan School, 1 mi. NW. of, in NE. angle of junction of lane to house, in root of 36-in. black oak tree; copper nail and washer	789.13
T. 30 N., R. 2 W., 0.2 mi. W. and 490 ft. N. of SE. cor. sec. 36, 44 ft. N. 35° E. of NE. corner of Mr. George's house, at corner of yard fence; iron post stamped "Prim Trav Sta No 55 1913 Mo 811"	810.491
Reference mark, 11 ft. E. of tablet, in root of 10-in. black oak tree; copper nail and washer	809.16
T. 30 N., R. 2 W., in SW $\frac{1}{4}$ sec. 36, 0.6 mi. W. of Mr. Bohn George's house, at rd. forks, in root of 10-in. black oak tree; copper nail and washer	846.76
T. 30 N., R. 2 W., near S. cor. secs. 35 and 36, 0.9 mi. W. of Mr. Bohn George's house, on top of hill, at rd. forks, in root of 12-in. white oak tree; copper nail and washer	1,021.97
T. 29 N., R. 2 W., about 0.3 mi. SW. of NE. cor. sec. 2, 1.4 mi. W. of Mr. Bohn George's house, 15 ft. N. of rd. forks, in root of 8-in. black oak tree; copper nail and washer	1,040.61
T. 29 N., R. 2 W., about 0.3 mi. S. of N. cor. secs. 2 and 3, 2.3 mi. W. of Mr. Bohn George's house, on S. side of rd., in root of 20-in. white oak tree; copper nail and washer	1,074.36
T. 29 N., R. 2 W., 0.4 mi. S. of N. quarter cor. sec. 3, 150 ft. SW. of Carr Creek, 10 ft. E. of rd., in large boulder; standard tablet stamped "H 1924 Mo No 1005"	1,004.756
Reference mark, 25 ft. E. of tablet, in root of 8-in. white oak tree; copper nail and washer	1,002.18

T. 29 N., R. 2 W., 0.3 mi. SW. of NE. cor. sec. 4, 3.4 mi. W. of Mr. Bohn George's house, 400 ft. N. of field, at rd. forks, in root of 10-in. black oak tree; copper nail and washer	1,126.24
T. 30 N., R. 2 W., in SW $\frac{1}{4}$ sec. 33, 3.8 mi. W. of Mr. Bohn George's house, on top of W. end of ridge between Carr Creek and Blair Creek, in root of 10-in. black oak tree; copper nail and washer	1,124.62
Williams' store, 150 ft. W. of, in root of 10-in. hard maple tree; copper nail and washer	726.07
Poplar School, 800 ft. S. of, on E. side of rd., in root of 6-in. black oak tree; copper nail and washer	716.96
Tps. 29 and 30 N., Rs. 2 and 3 W., about 0.3 mi. S. of cor. of, 500 ft. N. 40° E. of J. P. Knuckle's house, 8 ft. W. of rd., 1 ft. W. of fence; iron post stamped "Prim Trav Sta No 54 1913 Mo 717"	716.490
Reference mark, 110 ft. S. of post, on E. side of rd., in root of 30-in. white oak tree; copper nail and washer	716.14
Mouth of Sugarcamp Creek, 20 ft. S. of, on E. side of rd., in root of 10-in. elm tree; copper nail and washer	687.07
Simpson School, 1.5 mi. N. of, 300 ft. W. of house, 30 ft. W. of rd., in root of 30-in. elm tree; copper nail and washer	654.83
Simpson School, 0.4 mi. N. of, 20 ft. W. of Blair Creek, in root of 36-in. elm tree; copper nail and washer	634.93
Simpson School, in SW. corner of concrete steps; standard tablet stamped "H 1924 Mo 645"	644.880
Reference mark, 51 ft. SW. of schoolhouse, in root of 26-in. black oak tree; copper nail and washer	641.40
Simpson School, 0.4 mi. S. of, 20 ft. N. of rd. forks, on E. side of rd., in root of large sycamore tree; copper nail and washer	619.03
Simpson School, 1.3 mi. S. of, 20 ft. E. of rd., near top of ridge between Blair Creek and Current River, in root of 30-in. white oak tree; copper nail and washer	827.69
Simpson School, 1.8 mi. S. of, 20 ft. N. of dim rd. W., in root of 8-in. white oak tree; copper nail and washer	727.05
T. 29 N., R. 3 W., near center sec. 14, at rd. forks, 70 ft. NE. of sign "Eminence 8 miles Centerville 28 miles", in large rock; standard tablet stamped "H 1924 Mo 604"	603.654
Reference mark, 70 ft. SW. of tablet, in root of 36-in. oak tree; copper nail and washer	598.50

CORRIDON QUADRANGLE
(Latitude 37°15'-37°30'; longitude 91°-91°15')

Dent, Reynolds, and Shannon Counties



1. NEAR CENTER OF SOUTH BORDER OF QUADRANGLE (by M. J. Harden in 1924)
(Continued from Cardareva quadrangle; see line no. 6.)

Williams' store, 0.6 mi. E. of, 100 ft. W. of rd. forks, 10 ft. from spring, in limestone ledge; standard tablet stamped "H 1924 Mo 753"	Feet 752.489
Reference mark no. 1, 20 ft. S. of rd. forks, in root of 8-in. white oak tree; copper nail and washer	758.84
Reference mark no. 2, 40 ft. S. of rd. forks, in root of 12-in. black oak tree; copper nail and washer	765.50

(Continued in Cardareva quadrangle; see line no. 6.)

2. FROM SOUTH BORDER OF QUADRANGLE NORTH TO CENTER, THENCE NORTHEAST TO EAST BORDER
(by George W. Moore in 1931)

T. 30 N., R. 2 W., near center of NE $\frac{1}{4}$ sec. 36, 175 ft. N. and 22 ft. W. of W. rd. corner near John Beck's farm, in root on NE. side of 25-in. hickory tree; copper nail and washer	798.56
T. 30 N., R. 2 W., near center sec. 25, 0.2 mi. E. of Lone Cedar School, 110 ft. S. of rd., in root on SW. side of 54-in. elm tree; copper nail and washer	811.63
T. 30 N., R. 2 W., in S. part of SW $\frac{1}{4}$ sec. 24, NW. of rd., 26 ft. E. of fence corner, in root on W. side of 15-in. oak tree; copper nail and washer	888.95

- T. 30 N., R. 2 W., near center sec. 24, 60 ft. N. and 30 ft. E. of ford, 30 ft. N. and 40 ft. E. of fence corner, in root on SW. side of 26-in. oak tree; copper nail and washer 851.10
- Dagonia, 2.8 mi. S. of, near center NW $\frac{1}{4}$ sec. 24, T. 30 N., R. 2 W., in rd. jog around James Mooney's house, 26 ft. S. of front gate, at W. edge of concrete walk, 7 ft. N. of step; standard tablet stamped "133 M 1931" 854.583
- Reference mark, 47 ft. N. and 85 ft. E. of tablet, 25 ft. N. and 85 ft. E. of James Mooney's mail box, 10 ft. N. of rd., in root on SW. side of 26-in. oak tree; copper nail and washer 850.94
- T. 30 N., R. 2 W., in SE $\frac{1}{4}$ sec. 14, 100 ft. W. of rd. forks, in fence line, in root on E. side of 16-in. walnut tree; copper nail and washer 869.38
- T. 30 N., R. 2 W., in SE $\frac{1}{4}$ sec. 11, 60 ft. N. of NE. corner of abandoned store building, 120 ft. NW. of rd. forks, in root on SW. side of 20-in. oak tree; copper nail and washer 878.35
- Dagonia, 120 ft. E. of SE. corner of school, in S. part of SE $\frac{1}{4}$ sec. 2, T. 30 N., R. 2 W., 30 ft. E. of rd., in root on SW. side of 26-in. walnut tree; copper nail and washer 890.53
- Dagonia, 0.5 mi. N. of, near center of E $\frac{1}{2}$ sec. 2, T. 30 N., R. 2 W., 42 ft. W. of rd. fork NW., 28 ft. N. of ford, in concrete post; standard tablet stamped "134 M 1931" 899.662
- Reference mark, 78 ft. E. of tablet, 36 ft. E. of rd. forks, in root on W. side of 14-in. hickory tree; copper nail and washer 899.80
- T. 31 N., R. 2 W., in NW $\frac{1}{4}$ sec. 36, 25 ft. N. and 50 ft. E. of NE. corner of abandoned store building at J. E. Weems' farm, 30 ft. SW. of junction with private rd., in root on S. side of 22-in. elm tree; copper nail and washer 922.43
- T. 31 N., R. 2 W., in E. part of SE $\frac{1}{4}$ sec. 26, 50 ft. SE. of rd. in front of Luther Beck's house, on edge of creekbank, in root on W. side of 22-in. twin oak tree; copper nail and washer 951.15
- Dagonia, 3.3 mi. N. of, in SE $\frac{1}{4}$ sec. 23, T. 31 N., R. 2 W., 65 ft. S. and 100 ft. W. of NE. vertex of rd. forks, 50 ft. S. of T-rd. W., near R. E. Patterson's house, in concrete post; standard tablet stamped "135 M 1931" 966.451
- Reference mark, 15 ft. SW. of tablet, 120 ft. N. of S. vertex of triangle of rd. forks, in root on E. side of 24-in. walnut tree; copper nail and washer 965.84
- T. 31 N., R. 2 W., near S. quarter cor. sec. 13, 90 ft. E. of SE. corner of Radford School, 20 ft. E. of rd., in root on N. side of 36-in. oak tree; copper nail and washer 990.81
- T. 31 N., R. 2 W., in NE $\frac{1}{4}$ sec. 13, 40 ft. S. of E.-W. rd., in S. corner of triangle, in root on E. side of 30-in. oak tree; copper nail and washer 1,019.20
- T. 31 N., R. 1 W., in E $\frac{1}{2}$ sec. 18, 25 ft. S. of rd., on N. bank of creek, in root on N. side of 16-in. oak tree; copper nail and washer 1,088.87
- Corridor, 60 ft. NW. of Missouri Southern R. R. station, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, T. 31 N., R. 1 W., 28 ft. S. and 33 ft. W. of rd. crossing, 28 ft. S. and 12 ft. E. of T-rd. N., in concrete post; standard tablet stamped "136 M 1931" 1,214.698
- Reference mark, 66 ft. S. and 12 ft. W. of tablet, 33 ft. SE. of SE. corner of Geo. M. Martin's flour and feed store, in root on NW. side of 23-in. oak tree; copper nail and washer 1,209.86
- T. 31 N., R. 1 W., near center sec. 8, 300 ft. N. and 100 ft. E. of Reynolds School, 30 ft. W. of Missouri Southern R. R. track, in root on NE. side of 18-in. oak tree; copper nail and washer 1,238.14
- Reynolds, 50 ft. S. of SE. corner of Missouri Southern R. R. station, near N. quarter cor. sec. 8, T. 31 N., R. 1 W., 30 ft. N. and 32 ft. E. of R. R. at rd. crossing, in root on W. side of 18-in. oak tree; copper nail and washer 1,252.23
- Reynolds, 70 ft. S. and 70 ft. W. of upper rd. forks into town of, in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 5, T. 31 N., R. 1 W., 24 ft. SE. of rd., in root on N. side of 22-in. oak tree; copper nail and washer 1,267.89
- Reynolds, about 1 mi. NE. of, in S. part of NW $\frac{1}{4}$ sec. 4, T. 31 N., R. 1 W., 0.1 mi. SW. of rd. forks, 40 ft. SE. of State Highway 72, in root on N. side of 12-in. oak tree; copper nail and washer 1,175.49
- Reynolds, 2 mi. NE. of, on State Highway 72, near N. cor. secs. 3 and 4, T. 31 N., R. 1 W., 68 ft. N. of highway, in concrete post; standard tablet stamped "137 M 1931" 1,173.865
- Reference mark, 10 ft. N. of tablet, in root on SW. side of 23-in. oak tree; copper nail and washer 1,174.58
- Reynolds, 2.6 mi. NE. of, along State Highway 72, near center of S $\frac{1}{2}$ sec. 34, T. 32 N., R. 1 W., 90 ft. N. and 55 ft. W. of T-rd. N., 20 ft. NW. of old rd., in root on SE. side of 14-in. oak tree; copper nail and washer 1,191.14
- Reynolds, about 3.3 mi. NE. of, in W. part of SW $\frac{1}{4}$ sec. 35, T. 32 N., R. 1 W., 25 ft. N. and 65 ft. W. of T-rd. N., 30 ft. N. of State Highway 72, in root on S. side of 12-in. oak tree; copper nail and washer 1,186.28
- Reynolds, 4.2 mi. NE. of, in S. part of SE $\frac{1}{4}$ sec. 35, T. 32 N., R. 1 W., 155 ft. N. and 40 ft. W. of junction of rd. E., 30 ft. W. of State Highway 72, in root on NE. side of 18-in. oak tree; copper nail and washer 1,191.86
- Reynolds, about 4.7 mi. NE. of, 3.8 mi. SW. of Centerville, along State Highway 72, in NW $\frac{1}{4}$ sec. 1, T. 31 N., R. 1 W., 25 ft. N. and 70 ft. E. of junction of rd. S., in root on S. side of 10-in. oak tree; copper nail and washer 1,150.06
- Reynolds, 5.1 mi. NE. of, 3.3 mi. SW. of Centerville, along Brooks Hollow road, in W. part of SE $\frac{1}{4}$ sec. 1, T. 31 N., R. 1 W., 50 ft. S. of State Highway 72 at Brooks Hollow road, in concrete post; standard tablet stamped "138 M 1931" 1,069.053
- Reference mark, 118 ft. NW. of tablet, 30 ft. N. and 70 ft. W. of crossroads, in N. end of W. head wall of concrete culvert under highway; chiseled square 1,065.75

(Continued in Redford quadrangle; see line no. 3.)

3. EAST TO STATE HIGHWAY 72 INCLUDING PART OF THE LINE IN SINKIN QUADRANGLE (by Charles E. Hunter in 1936)

- T. 31 N., R. 3 W., in NE $\frac{1}{4}$ sec. 4, 0.5 mi. S. of Dent-Shannon county line, 25 ft. S. of forks of logging rds., on top of E.-W. ridge, in concrete post; standard tablet stamped "T 1612 E R A 1935" 1,264.930
- Graded rd. at old rd. W., 40 ft. N. and 60 ft. W. of, in root on S. side of 14-in. white oak tree; lead-headed nail 1,264.0

T. 31 N., R. 3 W., in NE $\frac{1}{4}$ sec. 3, 30 ft. E. of graded rd. on top of ridge, in root on N. side of 12-in. black oak tree; copper nail and washer 1,299.86
 T. 31 N., R. 3 W., near center of NW $\frac{1}{4}$ sec. 2, 15 ft. S. and 25 ft. E. of graded rd. at rd. fork S., opposite U. S. Forest Service lookout tower, in root on E. side of 6-in. black oak tree; copper nail and washer 1,322.87
 Bunker, 3.9 mi. S. of, in NE $\frac{1}{4}$ sec. 35, T. 32 N., R. 3 W., at old lumber camp site in small clearing, 30 ft. N. and 40 ft. W. of dim T-rd. E., in concrete post; standard tablet stamped "T T 1613 E R A 1935" 1,321.217
 T. 32 N., R. 3 W., in NW $\frac{1}{4}$ sec. 36, 100 ft. N. and 50 ft. E. of crossroads, in root on E. side of 14-in. white oak tree; copper nail and washer 1,352.49
 Old rd. at top of hill, 70 ft. E. of, in root on SE. side of 10-in. white oak tree; lead-headed nail 1,346.6
 T. 32 N., R. 2 W., in SW $\frac{1}{4}$ sec. 30, 65 ft. S. and 7 ft. W. of old Big Creek road at rd. fork NW., in root on W. side of 14-in. post oak tree; copper nail and washer 1,212.83
 Bunker, 3 mi. SE. of, along Big Creek, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T. 32 N., R. 2 W., 5 ft. N. and 24 ft. W. of rd. at rail fence W. on approximate Shannon-Reynolds county line, 42 ft. S. of triangular-blazed 30-in. black oak tree, in concrete post; standard tablet stamped "T T 1614 E R A 1935" 1,146.523
 Rd. fork W., 60 ft. S. and 45 ft. E. of, in root on W. side of 12-in. white oak tree; lead-headed nail 1,144.3
 T. 32 N., R. 2 W., in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 29, 60 ft. S. and 10 ft. E. of rd. at drain, in valley at mouth of ravine, in root on E. side of 12-in. white oak tree; copper nail and washer 1,236.77
 Missouri Southern R. R. at rd. crossing, 85 ft. S. and 200 ft. W. of, 20 ft. S. of rd. forks, in root on N. side of 30-in. white oak tree; lead-headed nail 1,352.1
 U. S. C. & G. S. B. M. designated "F 115 1935" 1,314.171

4. SOUTH ALONG WEST BORDER OF QUADRANGLE INCLUDING THAT PORTION OF THE LINE IN SINKIN QUADRANGLE

T. 31 N., R. 3 W., in NE $\frac{1}{4}$ sec. 9, 30 ft. W. and 10 ft. N. of graded rd. at rd. fork S., in root on N. side of 10-in. white oak tree; copper nail and washer 1,248.84
 Top of ridge, 10 ft. E. of rd., in root on E. side of 10-in. white oak tree; lead-headed nail 1,235.6
 T. 31 N., R. 3 W., near cor. secs. 9, 10, 15, and 16, 25 ft. N. and 20 ft. E. of rd. fork approximately 50 ft. NW. of Mill Creek, in root on W. side of 8-in. black oak tree; copper nail and washer 976.77
 Bunker, 8.3 mi. S. and W. of, by rd., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 31 N., R. 3 W., about 520 ft. E. of Conway's house, 12 ft. N. and 100 ft. E. of rd. fork W., 4 ft. S. and 15 ft. E. of rail fence corner, in concrete post; standard tablet stamped "T T 11 J J 1936" 934.717
 Reference mark no. 1, on right bank of Mill Creek, at rd. fork NW., in root on S. side of 24-in. sycamore tree; copper nail and washer 925.49
 Reference mark no. 2, 15 ft. E. and 20 ft. S. of rd. at ford across Mill Creek, in root on N. side of 6-in. maple tree; copper nail and washer 926.43
 Rd. fork SW., 45 ft. S. of, in front of small house, on left bank of Mill Creek, in root on N. side of 12-in. walnut tree; lead-headed nail 909.0
 Rat, 1.5 mi. W. of, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 31 N., R. 3 W., near junction of Big Creek and Mill Creek, 45 ft. N. and 15 ft. W. of rd. junction, 3 ft. N. and 10 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 12 J J 1936" 881.489
 Reference mark no. 1, 40 ft. N. and 30 ft. W. of T-rd. N. at ford, in root at crotch of 12-in. twin maple tree; copper nail and washer 880.17
 Reference mark no. 2, S. across rd. from reference mark no. 1, in root on N. side of 12-in. elm tree; copper nail and washer 878.11
 Rat, 0.5 mi. W. of post office, in SE $\frac{1}{4}$ sec. 22, T. 31 N., R. 3 W., 30 ft. S. and 85 ft. W. of rd. forks near log barn, in root on N. side of 8-in. butternut tree; copper nail and washer 902.95
 Rat, about 800 ft. N. of post office, near center sec. 23, T. 31 N., R. 3 W., 15 ft. N. and 80 ft. E. of T-rd. S., in root on SE. side of 22-in. black oak tree; copper nail and washer 918.47
 Rat, 0.8 mi. SE. of post office, along rd. to Midridge in NE $\frac{1}{4}$ sec. 26, T. 31 N., R. 3 W., 90 ft. S. and 30 ft. E. of rd. fork W., in root on N. side of 12-in. white oak tree; copper nail and washer 1,243.27
 Rd. fork W., 20 ft. N. and 60 ft. W. of, in root on NE. side of 20-in. white oak tree; lead-headed nail 1,246.8
 Rd. forks on top of ridge, 20 ft. N. and 15 ft. E. of, in root on S. side of 6-in. black oak tree; lead-headed nail 1,274.0
 Midridge, 1 mi. N. of, along Missouri Southern R. R., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 31 N., R. 3 W., 25 ft. S. and 22 ft. W. of R. R. at crossing of Rat-Midridge road, 12 ft. S. and 2 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 16 J J 1936" 1,258.082
 T-rd. near R. R. crossing, 120 ft. N. and 120 ft. W. of, in old field, in root on SE. side of 10-in. walnut tree; lead-headed nail 1,249.3
 Crossroads, 35 ft. N. and 15 ft. W. of, in root on E. side of 6-in. black oak tree; lead-headed nail 1,236.2
 Midridge, in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, T. 31 N., R. 3 W., 60 ft. N. and 5 ft. E. of NW. corner of schoolhouse, in root on W. side of 20-in. black gum tree; copper nail and washer 1,214.75
 Midridge, 1.4 mi. S. of, in SE $\frac{1}{4}$ sec. 1, T. 30 N., R. 3 W., 25 ft. N. and 5 ft. E. of rd. forks, in root on W. side of 12-in. white oak tree; copper nail and washer 1,179.13
 Midridge, about 2.5 mi. S. of, in SW $\frac{1}{4}$ sec. 7, T. 30 N., R. 2 W., 8 ft. E. of rd., on top of knob at end of ridge, in root on W. side of 14-in. white oak tree; copper nail and washer 1,124.32
 Midridge, 3.6 mi. S. of, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 30 N., R. 2 W., at junction of Blair Creek and Laxton Creek, 80 ft. S. and 160 ft. W. of rd. forks, 55 ft. S. and 11 ft. E. of Sherd Phillips' house, in concrete post; standard tablet stamped "T T 17 J J 1936" 829.058
 T. 30 N., R. 3 W., in NE $\frac{1}{4}$ sec. 24, 110 ft. N. and 40 ft. E. of ford across Blair Creek, at mouth of hollow, in root on W. side of 12-in. white oak tree; copper nail and washer 799.74

T. 30 N., R. 3 W., in SE $\frac{1}{4}$ sec. 24, 20 ft. E. of rd. forks near farmhouse, in fence corner, in root on N. side of 20-in. walnut tree; copper nail and washer 791.08
 T. 30 N., R. 3 W., in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, 15 ft. S. and 15 ft. W. of rd. forks on left bank of Blair Creek, approximately 200 ft. S. of small farmhouse, in root on W. side of 16-in. maple tree; copper nail and washer 761.90
 William's store, 0.2 mi. NW. of, in NW $\frac{1}{4}$ sec. 31, T. 30 N., R. 2 W., 20 ft. S. and 40 ft. W. of ford across Blair Creek, in root on N. side of 18-in. sycamore tree; copper nail and washer 729.06

5. WEST ALONG NORTH BORDER OF QUADRANGLE (by H. W. Gross, Jr. in 1936)
 (Continued from Redford quadrangle; see line no. 4.)

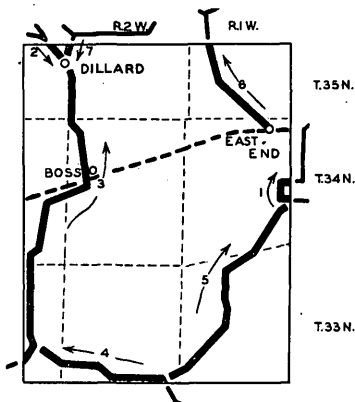
Centerville, 4.5 mi. NW. of, along rd. to West Fork, 60 ft. N. and 120 ft. W. of NW. corner of Gladdendale School, 25 ft. N. and 15 ft. E. of center of triangle at rd. forks, in root on S. side of 24-in. elm tree; copper nail and washer 789.17
 Centerville, 5.4 mi. NW. of, along rd. to West Fork, 25 ft. S. and 45 ft. E. of intersection of U. S. Forest Service road, in root on W. side of 14-in. black oak tree; copper nail and washer 989.64
 Centerville, 6 mi. NW. of, along rd. to West Fork, about 350 ft. NW. of ford, about 350 ft. NE. of log house, 250 ft. SE. of large cave in bluff on N. bank of river, 12 ft. NE. of road, in root on SW. side of 30-in. red oak tree; copper nail and washer 807.61
 Centerville, 7.2 mi. NW. of, along rd. to West Fork, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 32 N., R. 1 W., 50 ft. S. and 172 ft. W. of SW. corner of O. J. Cook's house, 12 ft. S. of rd., in concrete post; standard tablet stamped "T T 369 C W A 1934" 823.777
 Centerville, 8.2 mi. NW. of, along rd. to West Fork, about 500 ft. NE. of Silver Lake School, 20 ft. N. of N. bank of West Fork of Black River, 7 ft. SW. of rd., at mouth of small creek, in root on NW. side of 10-in. sycamore tree; copper nail and washer 828.09
 Centerville, 9.2 mi. NW. of, along rd. to West Fork, about 300 ft. S. of ford, 200 ft. E. of channel of West Fork of Black River, 25 ft. E. of rd., at bottom of slope of upper bank of river, in root on NW. side of 11-in. sycamore tree; copper nail and washer 842.96
 Ford, 60 ft. S. of, 10 ft. S. of West Fork road, in root on N. side of 26-in. gum tree; crossed iron nails 855.6
 Centerville, 10.4 mi. NW. of, along rd. to West Fork, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 32 N., R. 1 W., about 200 ft. N. of E. bank of West Fork of Black River at present ford, 8 ft. N. and 100 ft. W. of SW. corner of N. house on Cleve Barton's farm, 5 ft. NW. of wire fence, in concrete post; standard tablet stamped "T T 368 C W A 1934" 861.015
 Rd. near ford, 20 ft. E. of, 15 ft. W. of W. bank of river, in root on E. side of 16-in. hard maple tree; crossed iron nails 870.1
 Centerville, 11.6 mi. NW. of, along rd. to West Fork, about 300 ft. E. of center of West Fork of Black River at ford, 40 ft. N. and 45 ft. E. of rd. at rd. NE., in root on S. side of 18-in. elm tree; copper nail and washer 876.72
 Rd. at div. rd. NE., 20 ft. N. of, in root on W. side of 16-in. gum tree; crossed iron nails 897.2
 Centerville, 12.6 mi. NW. of, 1.4 mi. NE. of West Fork post office, 30 ft. N. and 100 ft. W. of mouth of Mill Creek, 20 ft. S. and 50 ft. W. of rd. fork N., in root on SE. side of 16-in. gum tree; copper nail and washer 888.82
 West Fork, 1 mi. E. of post office, near center sec. 6, T. 32 N., R. 1 W., 10 ft. N. and 20 ft. E. of SE. corner of board fence around Sutterfield schoolyard, 20 ft. NW. of rd., in concrete post; standard tablet stamped "T T 367 C W A 1934" 903.259
 West Fork, 0.2 mi. E. of post office, about 230 ft. NE. of center of West Fork of Black River at County Route J, 20 ft. N. and 50 ft. E. of center of triangle at rd. forks, in root on SW. side of 32-in. elm tree; copper nail and washer 907.25
 Baptist Church, 33 ft. S. and 30 ft. E. of SW. corner of, at junction of Toms Creek and West Fork roads; crossed iron nails 914.9
 West Fork, 0.8 mi. NW. of post office, about 0.2 mi. NW. of ford across West Fork of Black River, 65 ft. N. of N. corner of farm house, 75 ft. S. and 80 ft. E. of produced corner of rd. SE. and SW., 3 ft. E. of fence, in root on NE. side of 18-in. hickory tree; copper nail and washer 926.72
 West Fork, 1.6 mi. NW. of post office, near center of N $\frac{1}{2}$ sec. 6, T. 32 N., R. 2 W., 20 ft. N. and 9 ft. W. of West Fork rd. at fence N., 9 ft. W. of fence corner at SE. corner of apple orchard, in concrete post; standard tablet stamped "T T 366 C W A 1934" 937.137

(Continued in Boss quadrangle; see line no. 4.)

For additional level lines along Missouri Southern R. R., State Highway 72, and State Highway 21, refer to United States Coast and Geodetic Survey second-order lines; Van Buren to Stone Hill and Ohlman to Glover.

BOSS QUADRANGLE
(Latitude $37^{\circ}30' - 37^{\circ}45'$; longitude $91^{\circ} - 91^{\circ}15'$)

Crawford, Dent, Iron, Reynolds, and Washington Counties



1. NEAR CENTER OF EAST BORDER OF QUADRANGLE (by M. J. Harden in 1924)
(Continued from Edgehill quadrangle; see line no. 4.)

Goodland, 1 mi. NW. of, at SE. corner of junction of lane to Goodland School, in Feet
root of 12-in. hard maple tree; copper nail and washer 985.43

(Continued in Edgehill quadrangle; see line no. 4.)

2. IN NORTHWEST CORNER OF QUADRANGLE (by J. M. Lawson in 1933)
(Continued from Berryman quadrangle; see line no. 4.)

Dillard, 1 mi. NW. of, in SW $\frac{1}{4}$ sec. 13, T. 35 N., R. 3 W., 90 ft. S. of junction of
State Highway 49 and Dillard-Cherryville road, in concrete post; standard 1,093.119
tablet stamped "P T Sta No 118 S 1926"
Reference mark, 40 ft. W. of tablet, in root of small hickory tree; copper nail 1,093.26
and washer

3. NORTH ALONG WEST BORDER OF QUADRANGLE (by Cornish Beck in 1935)

Bunker, 4.5 mi. NW. of, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 33 N., R. 3 W., 45 ft. N. and 27 ft. W.
of junction of State Highway 72 and rd. to Crossville Church, in concrete post; 1,327.707
standard tablet stamped "361 C W A 1934"
Bunker, 4.9 mi. NW. of, about 100 ft. N. of top of ridge, 12 ft. E. of rd. forks,
in root on W. side of 18-in. water oak tree; copper nail and washer 1,270.58
Bunker, 6 mi. NW. of, in NE $\frac{1}{4}$ sec. 26, T. 33 N., R. 3 W.; 940 ft. E. of Crossville
Church, 6 ft. N. and 32 ft. E. of rd. forks, 80 ft. S. and 60 ft. W. of T. E.
Baker's house, in concrete post; standard tablet stamped "T T 362 C W A 1,090.941
1934"
T. 33 N., R. 3 W., in NW $\frac{1}{4}$ sec. 23, on Howes Mill-West Fork road at fence W., in
root on E. side of 42-in. elm tree; copper nail and washer 1,078.31
T. 33 N., R. 3 W., SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, about 40 ft. E. of West Fork Creek, 7 ft. W. of
rd., in root on E. side of 24-in. white oak tree; copper nail and washer 1,125.21
Marcoot, 0.8 mi. NE. of, at foot of hill, 10 ft. N. of rd., in root on S. side of
16-in. white oak tree; copper nail and washer 1,234.93
Marcoot, 1 mi. NE. of, in SE $\frac{1}{4}$ sec. 10, T. 33 N., R. 3 W., 410 ft. E. of dim crossroads,
30 ft. N. of E.-W. rd., in concrete post; standard tablet stamped "T T 374 1,297.252
C W A 1934"
T. 33 N., R. 3 W., about 540 ft. E. of quarter cor. between secs. 3 and 10, 25 ft.
S. of new U. S. Forest Service road at rd. S., in root on W. side of 14-in. post
oak tree; copper nail and washer 1,382.88
T. 33 N., R. 3 W., in NW $\frac{1}{4}$ sec. 2, 60 ft. N. and 6 ft. E. of U. S. Forest Service road
at dim rd. N. to Boss, in root on S. side of 16-in. post oak tree; copper nail 1,411.90
and washer
T. 34 N., R. 3 W., in NE $\frac{1}{4}$ sec. 35, 10 ft. N. and 10 ft. W. of crossroads, in root 1,415.07
on S. side of 16-in. post oak tree; copper nail and washer
Boss, 3 mi. SW. of, 1.5 mi. S. of State Highway 32, along ridge rd. to Marcoot, near
center sec. 25, T. 34 N., R. 3 W., near center of triangle formed by junction of
three rds., in concrete post; standard tablet stamped "T T 373 C W A 1934" 1,314.915
T. 34 N., R. 3 W., near center sec. 24, 50 ft. S. and 10 ft. W. of rd. junction SW.,
60 ft. N. of dim rd. junction E., 50 ft. S. and 30 ft. W. of rail fence corner,
in root on E. side of 20-in. water oak tree; copper nail and washer 1,296.25
T. 34 N., R. 3 W., about 930 ft. S. and 200 ft. W. of quarter cor. between secs. 13
and 24, on abandoned segment of State Highway 32, near curve at T-rd. S., at
brush arbor, in root on N. side of 14-in. white oak tree; copper nail and 1,246.78
washer
U. S. C. & G. S. B. M. designated "F 52 1934" 1,121.914
U. S. C. & G. S. B. M. designated "E 52 1934" 1,069.480
Boss, near the town of, in NW $\frac{1}{4}$ sec. 18, T. 34 N., R. 2 W., 100 ft. S. and 150 ft. E.
of State Highway 32 bridge no. J-573 over Huzzah Creek, in concrete post;
standard tablet stamped "T T 372 C W A 1934" 1,020.368

- T. 34 N., R. 2 W., about 100 ft. N. and 100 ft. W. of S. sixteenth cor. between secs. 5 and 6, about 100 ft. W. of Huzzah Creek, 75 ft. E. of small house, in root on W. side of 16-in. gum tree; copper nail and washer 984.59
- T. 34 N., R. 2 W., in NE $\frac{1}{4}$ sec. 6, about 100 ft. N. of Huzzah Creek at ford, 5 ft. N. of old county rd., 25 ft. W. of board fence corner, in root on S. side of 34-in. elm tree; copper nail and washer 960.95
- T. 34 N., R. 2 W., in NE $\frac{1}{4}$ sec. 6, about 300 ft. S. of turn in county rd., 160 ft. N. of fence, 60 ft. S. of creek, in root of 26-in. sycamore tree; copper nail and washer 938.43
- Dillard, 3.5 mi. S. of, along old Dillard-Boss road, in sec. 36, T. 35 N., R. 3 W., 100 ft. NW. of Huzzah Creek, 75 ft. SE. of right-of-way of new rd., 50 ft. W. of junction of rd. E. to farmhouse, on hillside, in concrete post; standard tablet stamped "T T 371 C W A 1934" 931.921
- Dillard, 1.5 mi. S. of, in NE $\frac{1}{4}$ sec. 25, T. 35 N., R. 3 W., 20 ft. N. and 20 ft. E. of NE. corner of mill, on limestone ledge; painted cross 899.03
- Dillard, 0.3 mi. S. of, in sec. 24, T. 35 N., R. 3 W., 10 ft. N. and 90 ft. E. of Dillard-Boss road at rd. E. to ford, in root on W. side of 28-in. elm tree; copper nail and washer 887.60

4. FROM POINT NEAR CENTER OF SOUTH BORDER OF QUADRANGLE WEST TO POINT NEAR SOUTHWEST CORNER (by H. W. Gross, Jr., in 1936)
(Continued from Corridon quadrangle; see line no. 5.)

- West Fork, 2.2 mi. NW. of post office, 160 ft. N. and 20 ft. E. of S. cor. secs. 34 and 35, T. 33 N., R. 2 W., 50 ft. N. and 20 ft. E. of Bills Creek road at West Fork road, in concrete post; standard tablet stamped "T T 365 C W A 1934" 950.588
- Rd. forks, 25 ft. S. and 25 ft. W. of, in root on N. side of twin 15-in. white oak tree; crossed iron nails 947.7
- Greeley, 2.2 mi. SE. of post office, 0.2 mi. N. of S. cor. secs. 33 and 34, T. 33 N., R. 2 W., 20 ft. S. of Greeley-West Fork road, 3 ft. S. and 4 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 364 C W A 1934" 959.528
- Rd. forks, 20 ft. N. and 10 ft. W. of, in root on E. side of 12-in. sycamore tree; crossed iron nails 959.3
- Ford, 300 ft. S. of, near Smith's farmhouse, 80 ft. W. of rd., in root on E. side of 16-in. walnut tree; crossed iron nails 968.0
- Greeley, 1.3 mi. SE. of post office, 50 ft. N. and 60 ft. W. of West Fork road at dim rd. N., 50 ft. N. of N. bank of West Fork of Black River at bend S., 50 ft. S. of barn, in root on S. side of 30-in. white oak tree; copper nail and washer 977.93
- Rd. at fence N., 15 ft. N. of, in root on S. side of 11-in. sycamore tree; crossed iron nails 979.7
- T-rd. S., 18 ft. S. and 35 ft. E. of, in root on NW. side of twin 16-in. red oak tree; crossed iron nails 1,072.1
- Greeley, 600 ft. NW. of post office, in NW $\frac{1}{4}$ sec. 32, T. 33 N., R. 2 W., 200 ft. W. and 50 ft. S. of schoolhouse, 40 ft. S. and 30 ft. W. of rd. forks, 12 ft. W. and 3 ft. N. of NE. corner of cemetery, in concrete post; standard tablet stamped "T T 363 C W A 1934" 1,011.934
- Greeley, 0.8 mi. W. of post office, about 300 ft. SE. of Henpeck Creek at crossing, 25 ft. S. and 10 ft. E. of rd. forks, 12 ft. E. of rd. at culvert, in root on SW. side of 16-in. walnut tree; copper nail and washer 1,021.37
- Ford, 200 ft. NE. of, 25 ft. W. of rd., in root on NE. side of 30-in. black oak tree; crossed iron nails 1,009.9
- Greeley, 1.5 mi. NW. of post office, about 350 ft. E. of J. D. Moore's house, 105 ft. E. and 20 ft. N. of rd. at wooden bridge over small creek, 20 ft. S. of rd., in root on NW. side of 20-in. black oak tree; copper nail and washer 1,033.06
- Wooden bridge, 15 ft. S. and 10 ft. W. of, in root on N. side of 20-in. white oak tree; crossed iron nails 1,028.7
- Greeley, 2.4 mi. NW. of post office, about 400 ft. E. of small creek, 45 ft. S. and 8 ft. W. of rd. forks, in fence line, in root on N. side of 11-in. white oak tree; copper nail and washer 1,089.28
- Ford across West Fork of Black River, 80 ft. S. and 40 ft. W. of, in root on S. side of 36-in. elm tree; crossed iron nails 1,049.7
- Junction of dim rd. NW., 15 ft. W. of, in root on SE. side of 18-in. white oak tree; crossed iron nails 1,292.3

5. FROM POINT NEAR CENTER OF SOUTH BORDER OF QUADRANGLE NORTHEAST TO EAST BORDER

- West Fork, 2 mi. NE. of post office, 0.5 mi. N. of mouth of Mill Creek, about 400 ft. E. of mouth of Wolf Branch, 30 ft. E. of rd., 12 ft. S. of spring, in root on W. side of 28-in. water oak tree; copper nail and washer 918.97
- West Fork, 2.4 mi. NE. of post office, in NW $\frac{1}{4}$ sec. 31, T. 33 N., R. 1 W., 200 ft. SW. of earthen dam, 60 ft. N. of NW. corner of small frame house on Wm. Seever's property, 20 ft. SW. of rd., in concrete post; standard tablet stamped "4 G 1936" 943.110
- West Fork, 3.1 mi. NE. of post office, 250 ft. W. of Mill Creek Spring, about 200 ft. NW. of Wm. Seever's house, 45 ft. W. of rd. at drain, in root on SE. side of 12-in. walnut tree; copper nail and washer 1,088.25
- Rd. at top of ridge, 22 ft. NW. of, in N. side of 16-in. black oak tree; crossed iron nails 1,251.2
- West Fork, 4.2 mi. NE. of post office, 3.2 mi. SW. of Oates, 400 ft. E. of U. S. Forest Service road at junction of rd. SW. to West Fork, 38 ft. E. and 30 ft. N. of junction of rd. NE. to Oates, 33 ft. N. of rd. at drain, in concrete post; standard tablet stamped "5 G 1936" 1,303.809
- Dim rd. NW., 40 ft. W. and 20 ft. S. of, in root on N. side of 11-in. water oak tree; crossed iron nails 1,114.1
- Oates, 2.2 mi. S. of, about 400 ft. NW. of I. S. Volner's house, 85 ft. W. of rd. forks S., at fork of prominent drains from S. and W., 8 ft. N. of rd., in root on S. side of 20-in. water oak tree; copper nail and washer 1,076.93
- Dim rd. W., 10 ft. N. and 4 ft. E. of, in root on W. side of 12-in. wild cherry tree; crossed iron nails 1,056.6
- Oates, 1 mi. SE. of, 170 ft. N. and 30 ft. E. of Vernia Smith's house, 14 ft. W. of rd. forks, in root on E. side of 22-in. elm tree; copper nail and washer 996.33

Dry Fork crossing, 100 ft. S. and 25 ft. W. of, in root on E. side of 26-in. white oak tree; crossed iron nails 975.9
 Oates, in village of, 110 ft. W. and 12 ft. S. of T-rd. S., 3 ft. S. and 3 ft. E. of the NE. corner of Sutterfield's store, in concrete post; standard tablet stamped "6 G 1936" 994.001
 Reference mark, 75 ft. W. and 35 ft. N. of tablet, in root on E. side of 10-in. sycamore tree; copper nail and washer 989.24
 Oates, 1 mi. N. of, at crest of ridge between Brushy and Strother Creeks, 15 ft. W. of present rd., 15 ft. E. of old rd., in root on E. side of 12-in. white oak tree; copper nail and washer 1,153.47
 Oates, 2.1 mi. N. of, 0.1 mi. S. of Y. A. Asher's house, 110 ft. S. of Strother Creek at ford, in triangle formed by rd. forks, 12 ft. W. of rd. S. to Oates, in root on W. side of 16-in. black oak tree; copper nail and washer 992.07
 Oates, 2.5 mi. NE. of, in N $\frac{1}{2}$ sec. 4, T. 33 N., R. 1 W., about 700 ft. NW. of Thomas Trolinger's house, 12 ft. N. and 2 ft. E. of rd. at fence N., in SW. corner of pasture, 3 ft. N. and 2 ft. E. of corner of fence, in concrete post; standard tablet stamped "7 G 1936" 984.873
 Junction of rd. NW., 20 ft. W. of, in root on W. side of 15-in. sycamore tree; crossed iron nails 970.4
 Oates, 3.5 mi. NE. of, 75 ft. W. and 40 ft. S. of SW. corner of L. T. Lowe's house, 35 ft. W. of rd., in root on SE. side of 14-in. elm tree; copper nail and washer 960.12
 Oates, 4.4 mi. NE. of, 110 ft. S. and 35 ft. E. of SE. corner of Hawk School, 40 ft. W. and 20 ft. N. of NW. corner of A. L. Nelson and Son's store, 20 ft. W. of T-rd. E., in root on E. side of 26-in. elm tree; copper nail and washer 926.15
 Ford across creek, 110 ft. S. and 50 ft. W. of, in root on SE. side of 22-in. red oak tree; crossed iron nails 937.4
 Oates, 5.5 mi. NE. of, 2.1 mi. SW. of Goodland, in NE $\frac{1}{4}$ sec. 27, T. 34 N., R. 1 W., 80 ft. S. and 70 ft. E. of S. corner of small farmhouse, 5 ft. N. and 50 ft. E. of T-rd. NE., in concrete post; standard tablet stamped "8 G 1936" 964.980
 Goodland, 1.6 mi. SW. of post office near center sec. 26, T. 34 N., R. 1 W., 65 ft. E. and 15 ft. N. of State Highway 49 at Goodland-Oates road, in root on NW. side of 12-in. white oak tree; copper nail and washer 1,277.85
 Goodland, 0.4 mi. W. of post office, 125 ft. E. and 50 ft. N. of ford, 100 ft. W. and 33 ft. S. of rd. forks, in root on S. side of 32-in. water oak tree; copper nail and washer 956.08

6. FROM EAST END NORTHWEST TO NORTH BORDER OF QUADRANGLE

U. S. C. & G. S. B. M. designated "A 56 1934" 1,364.102
 East End, 1.3 mi. E. of, 7 mi. E. of Bixby, 60 ft. W. and 48 ft. S. of State Highway 32 at Goodland-Goodwater road, in NW. head wall of concrete culvert; chiseled square 1,322.95
 Top of hill, 20 ft. NE. of rd., in root on SW. side of 8-in. red oak tree; crossed iron nails 1,316.0
 East End, 2.4 mi. NE. of, along Goodland-Goodwater road, 1.1 mi. NW. of State Highway 32, 110 ft. E. and 20 ft. N. of E. corner of O. A. Crocker's house, 40 ft. N. of rd. at spring drain, in root on SW. side of 12-in. persimmon tree; copper nail and washer 1,121.55
 East End, 1.6 mi. N. of, 130 ft. E. and 115 ft. N. of S. cor. secs. 33 and 34, T. 35 N., R. 1 W., 45 ft. N. and 53 ft. W. of East End-Goodwater road at junction of rd. SE. to Goodland, in root on E. side of 10-in. maple tree; copper nail and washer 1,061.99
 East End, 2.4 mi. N. of, 0.1 mi. N. of Ida Mayberry's house, 150 ft. NW. of rd. fork NE., 30 ft. S. and 60 ft. E. of rd. fork W., 20 ft. E. of rd., in root on SW. side of twin 11-in. ash tree; copper nail and washer 1,050.24
 East End, 3 mi. N. of, 0.8 mi. E. of Goodwater, 60 ft. S. and 30 ft. W. of SW. corner of Hickory Grove School, 50 ft. N. and 25 ft. E. of East End-Courtois road at cross rd., in root on SW. side of 16-in. elm tree; copper nail and washer 1,007.21
 East End, 4 mi. N. of, in SE $\frac{1}{4}$ sec. 17, T. 35 N., R. 1 W., 70 ft. E. and 30 ft. N. of rd. at Warren Hollow Creek, in root on N. side of 15-in. sycamore tree; copper nail and washer 973.46
 East End, 5.4 mi. NW. of, 40 ft. E. and 6 ft. S. of rd. fork SW., in root on SW. side of 30-in. white oak tree; copper nail and washer 942.77
 East End, 6.5 mi. NW. of, 250 ft. N. of rd. at spring drain, 35 ft. N. and 25 ft. W. of rd. fork NE., in root on E. side of 16-in. white oak tree; copper nail and washer 944.57

(Continued in Berryman quadrangle; see line no. 10.)

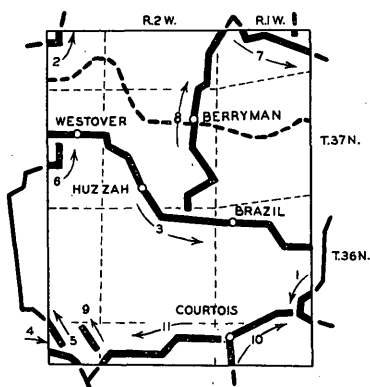
7. IN NORTHWEST CORNER OF QUADRANGLE

(Continued from Berryman quadrangle; see line no. 11.)

Dillard, 1.1 mi. N. of post office, near center sec. 13, T. 35 N., R. 3 W., 45 ft. E. and 30 ft. S. of State Highway 49 at rd. NE., in root on W. side of 15-in. red oak tree; copper nail and washer 1,053.84
 For additional level lines along State Highways 32 and 72, refer to United States Coast and Geodetic Survey second-order lines; Ste. Genevieve to Licking and Van Buren to Stone Hill.

BERRYMAN QUADRANGLE
(Latitude 37°45'-38°; longitude 91°-91°15')

Crawford and Washington Counties



1. NEAR CENTER OF SOUTH HALF OF EAST BORDER OF QUADRANGLE (by D. V. Vandiver in 1903)
(Continued from Potosi quadrangle; see line no. 2.)

Palmer, 3.5 mi. SW. of at crossroads, in flint and limestone boulder; aluminum Feet
tablet stamped "Frim Trav Sta No 394 1164 Adj 1903" 1,164.646

(Continued in Potosi quadrangle; see line no. 2.)

2. IN NORTHWEST CORNER OF QUADRANGLE (leveled twice by L. V. Johnson in 1932)

Scotia, 3.3 mi. SW. of, along Steelville road, about 250 ft. SW. of Guy Brown's farm-
house, 28 ft. S. and 16 ft. E. of rd. fork SE., 45 ft. SW. of Brown's mail box,
in root on SE. side of small oak tree; copper nail and washer 964.88

3. EAST THROUGH CENTER OF QUADRANGLE

Westover, 2 mi. W. of, along Westover-Steelville road, near center sec. 15, T. 37 N.,
R. 3 W., 36 ft. S. and 40 ft. W. of crossroads, in concrete post; standard 944.954
tablet stamped "P T Sta No 110 S 1926"
Reference mark, 17 ft. N. and 9 ft. W. of crossroads, in root on S. side of 18-in.
oak tree; copper nail and washer 943.95
Westover, 80 ft. E. of junction of Westover-Huzzah road with rd. SE. to Westover
fisheries, 100 ft. SW. of ford across creek, in root on NW. side of 36-in. oak
tree; copper nail and washer 738.67
Westover, 0.8 mi. SE. of, along rd. to Huzzah, 25 ft. N. and 37 ft. W. of rd. fork
NW., in root on SW. side of 24-in. oak tree; copper nail and washer 899.55
Westover, 1.6 mi. SE. of, along rd. to Huzzah, 38 ft. S. and 18 ft. W. of rd. fork S.,
50 ft. W. of W. H. Farrar's mail box, in root on W. side of 6-in. oak tree;
copper nail and washer 916.58
Westover, 2 mi. SE. of, along rd. to Huzzah, 25 ft. S. and 45 ft. W. of main rd., at
rd. forks NE. and SW., 16 ft. E. of J. B. Trask's mail box, in root on W. side
of 15-in. oak tree; copper nail and washer 948.48
Huzzah, about 1 mi. NW. of post office, 1,000 ft. S. and 800 ft. E. of quarter cor.
between secs. 17 and 18, T. 37 N., R. 2 W., 80 ft. N. of Willie Brickey's house,
on hillside, in concrete post; standard tablet stamped "P T Sta 127 S 1926" 736.681
Reference mark, 260 ft. E. of tablet, about 70 ft. S. of barn, in root on N. side
of large locust tree; copper nail and washer 714.26
Huzzah, 0.5 mi. NW. of, along rd. to Westover, 325 ft. NW. of ford across Huzzah Creek,
15 ft. W. of main rd. at junction of dim rd. S., in fence line, in root on NE.
side of large elm tree; copper nail and washer 718.93
Huzzah, about 250 ft. NW. of post office, 110 ft. W. and 30 ft. S. of gate at front
entrance to yard of D. McInnis, about 50 ft. N. of barn, in root on NE. side of
30-in. locust tree; copper nail and washer 744.11
Huzzah, 0.5 mi. S. of post office, in NE. corner of concrete step to Huzzah School;
standard tablet stamped "P T Sta 128 S 1926" 735.322
Huzzah, 1.6 mi. SE. of post office, along rd. to Palmer, 0.9 mi. S. of Huzzah School
35 ft. W. and 25 ft. S. of junction with private rd. W., in root on SE. side of
15-in. sycamore tree; copper nail and washer 748.27
Huzzah, 2.5 mi. SE. of post office, about 200 ft. SE. of junction of Huzzah-Davisville
and Huzzah-Palmer roads, about 250 ft. NW. of old store building, 50 ft. N. of old
barn, in root on NW. side of 30-in. oak tree; copper nail and washer 771.99
Huzzah, 3.2 mi. SE. of post office, along rd. to Palmer, 0.7 mi. E. of Huzzah-Davisville
road, 105 ft. S. of S. corner of F. L. Powers' house, 12 ft. N. of rd., in root
on NE. side of 15-in. oak tree; copper nail and washer 973.26
Huzzah, 4.2 mi. SE. of post office, along rd. to Palmer, 1.7 mi. E. of Huzzah-Davisville
road, 1 mi. E. of F. L. Powers' house, 6 ft. N. of rd., in root on E. side of
triangular-blazed 18-in. oak tree; copper nail and washer 1,049.51

Brazil, about 2.5 mi. W. of post office, along Huzzah-Brazil road, in SE $\frac{1}{4}$ sec. 2, T. 36 N., R. 2 W., 0.2 mi. NW. of Walter Caringer's house, 65 ft. E. of rd. forks, between rds., in concrete post; standard tablet stamped "P T Sta 129 S 1926" 1,048.088

Huzzah, 5.4 mi. SE. of post office, along rd. to Palmer, 3 mi. SE. of Huzzah-Davisville road, 11 ft. N. of rd. forks, in root on SW. side of triangular-blazed 36-in. oak tree; copper nail and washer 1,110.58

Huzzah, 6.2 mi. SE. of post office, along rd. to Palmer, at foot of large hill, 30 ft. S. and 75 ft. E. of gate in picket fence around W. J. Martin's yard, 17 ft. N. of rd., in root on N. side of 24-in. walnut tree; copper nail and washer 875.56

Brazil, about 1.2 mi. W. of, on Palmer-Huzzah road, 0.5 mi. S. of Courtois Creek, 350 ft. N. of Mrs. F. P. Crumps' house, 15 ft. W. of rd., in root on E. side of 36-in. elm tree; copper nail and washer 812.82

Brazil, 0.8 mi. N. of, along creek rd., 90 ft. E. of junction of Huzzah-Palmer road and rd. S. to Brazil, on W. bank of creek, about 3 ft. above water level, in root on S. side of triangular-blazed 18-in. elm tree; copper nail and washer 787.57

Mallow School, 0.7 mi. NW. of, 230 ft. SE. of ford across creek, 30 ft. E. and 10 ft. S. of S. corner of triangle formed by junction of Palmer-Berryman road with rd. SW. to Huzzah, in root on W. side of triangular-blazed 40-in. oak tree; copper nail and washer 786.06

Mallow School, 500 ft. E. of quarter cor. between secs. 4 and 5, T. 36 N., R. 1 W., 21 ft. S. of SE. corner of schoolhouse, 9 ft. W. of large walnut tree; in concrete post; standard tablet stamped "P T Sta 130 S 1926" 831.315

Reference mark, 10 ft. E. of tablet, in root on SE. side of large walnut tree; copper nail and washer 831.02

Mallow School, 1 mi. SE. of, along rd. to Berryman, 15 ft. S. and 15 ft. W. of junction with private rd. W. through gate, in root on E. side of 15-in. walnut tree; copper nail and washer 814.64

Palmer, 1.9 mi. W. of, along rd. to Berryman, 50 ft. N. and 50 ft. W. of NW. corner-post of picket fence around large white farmhouse, 10 ft. N. of rd. forks, in root on E. side of 10-in. sycamore tree; copper nail and washer 831.51

Palmer, 0.9 mi. W. of, along rd. to Berryman, at W. foot of hill, 18 ft. N. and 10 ft. W. of dim rd. fork NW., in root on SW. side of triangular-blazed 12-in. oak tree; copper nail and washer 860.00

4. IN SOUTHWEST CORNER OF QUADRANGLE (by J. M. Lawson in 1933)

Sligo, 9.1 mi. E. of, about 3.5 mi. NW. of Dillard, 0.9 mi. W. of Cherryville-Dillard road, 30 ft. N. of rd., in root on S. side of 24-in. oak tree; copper nail and washer 1,350.16

Sligo, 9.6 mi. E. of, about 3 mi. NW. of Dillard, 0.4 mi. W. of Cherryville-Dillard road, in corner of dim rd. forks, in trunk of 7-in. hickory tree; spike 1,171.89

Sligo, 10 mi. E. of, 2.1 mi. NW. of Dillard along Cherryville-Dillard road, 90 ft. W. of rd. fork SW., 8 ft. N. of rd., on N. end of iron pipe culvert; painted square 1,154.29

(Continued in Boss quadrangle; see line no. 2.)

5. NORTH AND WEST IN SOUTHWEST CORNER OF QUADRANGLE

Dillard, 3 mi. N. of, along old Cherryville-Dillard road, 25 ft. S. and 12 ft. W. of iron culvert, at slight angle in rd., in root on NE. side of 15-in. oak tree; copper nail and washer 1,175.99

Dillard, 4 mi. N. of, along old Cherryville-Dillard road, 40 ft. S. and 20 ft. E. of dim rd. fork SW., in root on W. side of 12-in. oak tree; copper nail and washer 1,122.35

Dillard, 4.6 mi. N. of, along old Cherryville-Dillard road, in center of E. head wall of concrete box culvert over deep, narrow creek, standard tablet stamped "No 3 L 1933 1081" 1,080.525

Reference mark, in top of S. corner of head wall; chiseled square 1,080.52

6. NEAR CENTER OF WEST BORDER OF QUADRANGLE

Cherryville, 4.2 mi. N. of, along Cherryville-Westover road, 1.8 mi. S. of Steelville-Westover road, 20 ft. W. of rd. fork S. at angle in main rd. from W. to N., in root on E. side of 20-in. oak tree; nail and washer 977.64

Cherryville, 5 mi. N. of, along Cherryville-Westover road, 1 mi. S. of Steelville-Westover road, 20 ft. N. and 20 ft. W. of dim rd. fork SE., 50 ft. S. of fence corner near T-rd. W., in root on E. side of 17-in. oak tree; copper nail and washer 955.15

Westover, 2.0 mi. W. of, along Steelville-Westover road, near center sec. 15, T. 37 N., R. 3 W., 36 ft. S. and 40 ft. W. of crossroads, in concrete post; standard tablet stamped "P T Sta No 110 S 1926" 944.954

7. SOUTHEAST ACROSS NORTHEAST CORNER OF QUADRANGLE (by F. S. Kuehnle in 1934)

T. 38 N., R. 1 W., at approximate center sec. 20, 40 ft. W. of junction of old Scotia-Undine road, in root on S. side of 15-in. oak tree; copper nail and washer 1,063.51

T. 38 N., R. 1 W., in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, 310 ft. E. of rd., 24 ft. S. and 6 ft. E. of SW. corner of former post office building in Undine, in lot of John W. Isgrig, in concrete post; standard tablet stamped "P T Sta 126 S 1926" 870.540

Reference mark, 40 ft. N. of tablet, in root on SE. side of 15-in. walnut tree; copper nail and washer 871.81

T. 38 N., R. 1 W., in SE $\frac{1}{4}$ sec. 27, 100 ft. N. of main gate to E. Kimberlin's place, in root on N. side of 36-in. elm tree; copper nail and washer 919.70

Undine, 2.2 mi. SE. of, along Undine-Floyd road, 60 ft. N. and 25 ft. E. of rd. fork E., at old sawmill site, in root on SW. side of 30-in. oak tree; copper nail and washer 983.15

(Continued in Potosi quadrangle; see line no. 4.)

8. FROM POINT NEAR CENTER OF QUADRANGLE NORTH TO NORTH BORDER (by L. E. Grafft in 1934)

Berryman, about 3.5 mi. S. of, near NE. cor. sec. 1, T. 36 N., R. 2 W., 0.3 mi. E. of Crawford-Washington county line, 12 ft. E. of Berryman-Palmer road, in root on E. side of 14-in. black oak tree; copper nail and washer 1,068.35

Berryman, 2.3 mi. SE. of, 0.2 mi. S. of NW. cor. sec. 31, T. 37 N., R. 1 W., 0.4 mi. E. of Crawford-Washington county line, 90 ft. N. and 70 ft. E. of Berryman-Palmer road, in root on W. side of 18-in. white oak tree; copper nail and washer 958.52

Berryman, 1.5 mi. SE. of, near E. quarter cor. sec. 25, T. 37 N., R. 2 W., 33 ft. S. and 24 ft. E. of junction of Berryman-Palmer road, and rd. NE., in concrete post; standard tablet 769.70

Reference mark, 220 ft. NW. of tablet, on E. side of main rd., in root of 36-in. white oak tree; copper nail and washer 767.36

Berryman, 1 mi. S. of, in SE $\frac{1}{4}$ sec. 24, T. 37 N., R. 2 W., 500 ft. E. of Crawford-Washington county line, 9 ft. N. thence 11 ft. E. of Berryman-Palmer road, in root of 72-in. elm tree; copper nail and washer 751.22

Berryman, 0.5 mi. W. of, in SE $\frac{1}{4}$ sec. 14, T. 37 N., R. 2 W., 400 ft. N. of State Highway 8, 172 ft. E. of slight jog in county rd., in root on W. side of 30-in. elm tree; copper nail and washer 746.78

Berryman, 0.8 mi. NW. of, in NE $\frac{1}{4}$ sec. 14, T. 37 N., R. 2 W., 115 ft. NE. of NE. corner of Berryman School, in top of concrete post; standard tablet 749.606

Reference mark, 105 ft. SW. of tablet, in root of 22-in. white oak tree; copper nail and washer 750.28

Berryman, 1.5 mi. N. of, in W $\frac{1}{2}$ sec. 12, T. 37 N., R. 2 W., 6 ft. E. of rd., on S. side of Billys Branch, in root of 14-in. oak tree; copper nail and washer 743.40

Berryman, 2.8 mi. N. of, near center sec. 1, T. 37 N., R. 2 W., 30 ft. S. and 34 ft. E. of crossroads, in concrete post; standard tablet 969.534

Reference mark, 80 ft. NW. of tablet, in stump; nail 968.10

Berryman, 3 mi. N. of, in SE $\frac{1}{4}$ sec. 36, T. 38 N., R. 2 W., 20 ft. S. of main rd., in root of 16-in. oak tree; copper nail and washer 1,087.70

Berryman, 3.8 mi. N. of, in NW $\frac{1}{4}$ sec. 31, T. 38 N., R. 1 W., in triangle formed by rd. forks, 81 ft. SE. of the NW. corner, 43 ft. S. of rd. E. and 14 ft. E. of main rd., in root of 22-in. black oak tree; copper nail and washer 1,067.53

Berryman, 5 mi. N. of, in SE $\frac{1}{4}$ sec. 24, T. 38 N., R. 2 W., in triangle formed by rd. forks, 90 ft. SE. of N. corner, 20 ft. E. of main rd., and 20 ft. W. of rd. N., in concrete post; standard tablet 1,113.42

Reference mark, 130 ft. NW. of tablet, in root of 22-in. oak tree; copper nail and washer 1,113.60

9. NORTH IN SOUTHWEST CORNER OF QUADRANGLE TO DILLARD TRIANGULATION STATION (by B. A. Barnes in 1934)

Dillard, about 1.6 mi. NW. of, along State Highway 49, near N. quarter cor. sec. 13, T. 35 N., R. 3 W., in bridge over Rock Branch; chiseled square 909.94

Dillard, about 2.7 mi. NW. of, along State Highway 49, near N. sixteenth cor. between secs. 11 and 12, T. 35 N., R. 3 W., 75 ft. N. and 15 ft. W. of highway at fence, in root of 12-in. oak tree; copper nail and washer 1,132.49

Dillard, 3.8 mi. NW. of, along State Highway 49, in S $\frac{1}{2}$ sec. 2, T. 35 N., R. 3 W., at top of hill covered with small timber, on S. side of highway, in concrete post; standard U. S. C. & G. S. triangulation station designated "Dillard" 1,343.836

10. FROM COURTOIS EAST TO EAST BORDER OF QUADRANGLE (by H. W. Grass, Jr., in 1936)
(Continued from Boss quadrangle; see line no. 6.)

Courtois, 0.5 mi. S. of post office, 105 ft. W. and 70 ft. S. of Ward Payne's house, 40 ft. W. and 30 ft. N. of rd. fork, in root on N. side of 14-in. white oak tree; copper nail and washer 899.65

Junction of rd. SE., 50 ft. W. and 25 ft. S. of, in root on N. side of 11-in. red oak tree; crossed iron nails 1,009.9

Courtois, 1.6 mi. E. of post office, 375 ft. S. of cor. secs. 4, 5, 8, and 9, T. 35 N., R. 1 W., on divide between Courtois and Cub Creeks, 250 ft. N. and 10 ft. E. of junction of dim rd. NE., in root on NE. side of twin 8-in. red oak tree; copper nail and washer 1,137.57

W. J. Turnbough's house, 20 ft. W. of rd., in root on SW. side of 15-in. white oak tree; crossed iron nails 1,061.8

Courtois, 2.6 mi. NE. of post office, in NW $\frac{1}{4}$ sec. 4, T. 35 N., R. 1 W., 280 ft. N. and 80 ft. E. of NE. corner of L. J. Turnbough's house, about 300 ft. W. of small cemetery, 180 ft. S. of Cub Creek, 15 ft. NW. of rd., in root on SE. side of 36-in. maple tree; copper nail and washer 883.37

Rd. forks, 55 ft. S. and 10 ft. W. of, in root on N. side of 12-in. maple tree; crossed iron nails 877.3

Quaker, 2.4 mi. W. of post office, about 0.2 mi. N. of W. O. Gillam's house, 35 ft. W. and 10 ft. S. of rd. at T-lane S., in root on E. side of 11-in. walnut tree; copper nail and washer 890.30

Quaker, 1.7 mi. W. of post office, 0.5 mi. W. of Barr's store, 90 ft. W. of ford across Cub Creek, 7 ft. S. of rd. at dim rd. NW., in root on S. side of 20-in. sycamore tree; copper nail and washer 902.79

Rd. fork SE., 25 ft. E. of, near NW. corner of cultivated field, in root on SE. side of 12-in. post oak tree; crossed iron nails 1,107.3

Palmer, 3.5 mi. SW. of, at crossroads, in flint and limestone boulder; aluminum tablet stamped "Prim Trav Sta No 394 1164 Adj 1903" 1,164.646

Reference mark, 35 ft. N. of tablet, in root on W. side of 10-in. post oak tree; copper nail and washer 1,167.86

11. FROM COURTOIS WEST AND SOUTH TO SOUTH BORDER OF QUADRANGLE

Courtois, 300 ft. NW. of post office, 100 ft. S. and 140 ft. W. of cor. secs. 5, 6, 7, and 8, T. 35 N., R. 1 W., 150 ft. N. and 60 ft. E. of G. D. Evans' house, 22 ft. W. of NW. corner of barn, in concrete post; standard tablet stamped "P T Sta 121 S 1926 900" 900.167

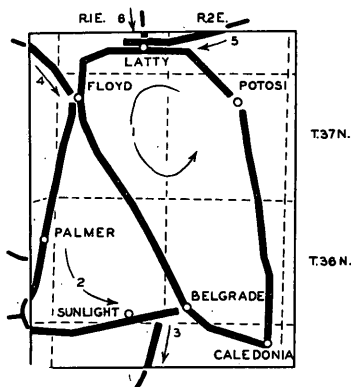
Reference mark, 139 ft. NW. of tablet, in root on W. side of 30-in. white oak tree; copper nail and washer	901.87
T. 35 N., R. 1 W., in SW $\frac{1}{4}$ sec. 6, 15 ft. N. of rd. forks, in root on W. side of 24-in. red oak tree; copper nail and washer	1,137.95
Junction of dim rd. SE., 50 ft. W. and 35 ft. N. of, in root on S. side of 24-in. white oak tree; copper nail and washer	1,292.6
Rd. at rail fence N., 40 ft. N. and 35 ft. E. of, in root on S. side of 12-in. hickory tree; copper nail and washer	1,271.7
Courtois, 2.1 mi. W. of post office, in NW $\frac{1}{4}$ sec. 12, T. 35 N., R. 2 W., 150 ft. S. 30° W. of rd. forks, 1,000 ft. S. 35° W. of U. S. Forest Service lookout tower, in root on NW. side of 15-in. hickory tree; copper nail and washer	1,278.65
Czar Methodist Church, in SW $\frac{1}{4}$ sec. 11, T. 35 N., R. 2 W., 600 ft. E. of rd. forks, in concrete step; chiseled square	1,158.27
T. 35 N., R. 2 W., in SW $\frac{1}{4}$ sec. 2, 40 ft. N. and 18 ft. E. of Wesley Thomas' house, on Davisville-Goodwater road, in root on W. side of 12-in. black walnut tree; copper nail and washer	1,098.17
T. 35 N., R. 2 W., in SE $\frac{1}{4}$ sec. 3, 21 ft. NE. of old Steelville-Centerville road, 27 ft. N. and 15 ft. W. of R. S. Barr's garage, in concrete post; standard tablet stamped "P T 120 S 1926"	1,048.659
Reference mark, 40 ft. N., in root of 14-in. oak stump; copper nail and washer	1,050.83
Junction of rd. N. down Shoal Creek, 55 ft. N. and 35 ft. W. of, in root on W. side of 18-in. elm tree; crossed iron nails	1,002.8
S. side of rd., in 3-in. oak tree; crossed iron nails	1,045.6
Davisville, 3.7 mi. SE. of, 0.4 mi. NW. of M. F. Barr's store, at top of long hill descending SE. to Shoal Creek, 30 ft. W. and 15 ft. S. of Davisville-Viburnum road, at dim rd. SW., in root on N. side of 14-in. white oak tree; copper nail and washer	1,170.29
Rd. fork, 10 ft. W. of, in root on SW. side of 10-in. white oak tree; crossed iron nails	1,179.7
Davisville, 5 mi. SE. of, 0.2 mi. N. of quarter cor. between secs. 9 and 10, T. 35 N., R. 2 W., 77 ft. W. and 15 ft. S. of the SW. corner of Chester Worley's house, 66 ft. E. of rd., in root on NW. side of 16-in. white oak tree; copper nail and washer	1,183.15
Dillard, 6 mi. NE. of post office, in NW $\frac{1}{4}$ sec. 16, T. 35 N., R. 2 W., 20 ft. S. and 90 ft. W. of Mill Rock Creek ford, 400 ft. S. 20° E. of Tom Turnboughs' house, 80 ft. W. of rail fence corner, in concrete post; standard tablet stamped "P T 119 S 1926"	929.752
Reference mark, 20 ft. NE. of tablet, in root on W. side of 10-in. walnut tree; copper nail and washer	929.77
Dillard, 5.5 mi. NE. of post office, 0.6 mi. W. of Tom Turnbough's house, about 0.2 mi. E. of Andy Coleman's house, 70 ft. N. of Mill Rock Creek, 21 ft. SE. of rd., in root on SE. side of 21-in. water oak tree; copper nail and washer	899.47
Junction of dim rd. SW., 60 ft. E. of, in root on E. side of 30-in. white oak tree; crossed iron nails	865.9
Dillard, 4.3 mi. NE. of post office, near center sec. 8, T. 35 N., R. 2 W., in N. end of top step at Sellar School; chiseled square	869.51
Huzzah Creek at ford, 150 ft. E. and 75 ft. N. of, in root on SW. side of 15-in. red oak tree; crossed iron nails	848.8
Dillard, 3.5 mi. NE. of post office, 2.5 mi. E. of State Highway 49, about 0.2 mi. W. of ford across Huzzah Creek, 150 ft. E. of rd. corner from NE. to SE., 60 ft. N. of rd. fork up Barn Hollow, in trunk on SW. side of 15-in. elm tree; copper nail and washer	855.17
Junction of abandoned rd. NE., 150 ft. E. and 14 ft. N. of, in root on S. side of 11-in. white oak tree; crossed iron nails	1,003.7
Dillard, 1.8 mi. NE. of post office, in sec. 18, T. 35 N., R. 2 W., 150 ft. E. and 60 ft. N. of old Doms farmhouse, 70 ft. S. of county rd. at garden fence SW., in root on SE. side of 10-in. locust tree; copper nail and washer	888.00

(Continued in Boss quadrangle; see line no. 7.)

For an additional level line along State Highway 8, refer to United States Coast and Geodetic Survey second-order line, Steelville to Mineral Point.

POTOSI QUADRANGLE
(Latitude $37^{\circ}45' - 38^{\circ}$; longitude $90^{\circ}45' - 91^{\circ}$)

Washington County



1. FROM POTSI NORTHWEST TO POINT NEAR NORTH BORDER OF QUADRANGLE, THENCE WEST TO LITTLE PILOT KNOB, THENCE SOUTHEAST TO BELGRADE, THENCE EAST TO CALEDONIA, THENCE NORTH TO POTSI (by D. V. Vandiver in 1903)

	Feet
Potosi, in S. foundation of courthouse, 5 ft. W. of front door, 4 ft. above ground; aluminum tablet stamped "1903 904 Adj"	904.057
Pleasant Hill (Grove) Church, in SE. corner of foundation stone, 2 ft. above ground; aluminum tablet stamped "1903 816 Adj"	816.780
Latty, 1.4 mi. SW. of, 1,000 ft. W. of Fourche a Renault Creek, 54 ft. W. of spring-house, opposite Bill Lewis' house, in ledge of natural stone; aluminum tablet stamped "Prim Trav Sta No 79 1913 790"	790.034
Floyd, 2.5 mi. NW. of, 1 mi. SW. of Little Pilot Knob, on N. side of rd., in large boulder; aluminum tablet stamped "Prim Trav Sta No 167 1903 1243 Adj"	1,243.018
Floyd, 4 ft. W. of corner of Earle's front porch, in E. foundation stone; aluminum tablet stamped "1903 877 Adj"	877.364
Shirley, 300 ft. SW. of store, 150 ft. E. of Berryman road, at NW. corner of barn, in natural sandstone boulder; aluminum tablet stamped "1903 941 Adj"	940.815
Potosi, 8 mi. SW. of, 1,500 ft. E. of lead company's barn, 300 ft. N. of Baptist Church, 400 ft. W. of Gibson's house, 100 ft. W. of rd., in limestone ledge; aluminum tablet stamped "1903 1004 Adj"	1,004.064
Belgrade, 3 mi. N. of, 100 ft. NW. of ford across North Fork of Clear Creek, 80 ft. NE. of Johnson's house; iron post stamped "1903 912 Adj"	912.488
Belgrade, 1.5 mi. E. of, on E. bank of small branch, in large porphyry boulder; aluminum tablet stamped "1903 923 Adj"	923.145
Caledonia, at front entrance to Methodist Church, in S. sandstone step; aluminum tablet stamped "Prim Trav Sta No 540 1903 923 Adj"	923.503
Caledonia, 3 mi. N. of, 300 ft. E. of intersection of Belgrade-Irondale and Caledonia-Potosi roads, 200 ft. W. of Newcomb's shop, in limestone ledge; aluminum tablet stamped "1903 821 Adj"	821.545
Potosi, 5 mi. S. of, 1,000 ft. S. of Pine Hill, 3 ft. W. of rd., in sandstone boulder; aluminum tablet stamped "1903 1110 Adj"	1,110.820

2. FROM FLOYD SOUTH BY WAY OF PALMER TO POINT NEAR SOUTHWEST CORNER OF QUADRANGLE, THENCE EAST TO BELGRADE

Levy, 1 mi. E. of, in SW. corner of foundation stone of Lost Creek Baptist Church, 2 ft. above ground; aluminum tablet stamped "1903 924 Adj"	924.013
Palmer, 4 mi. N. of, at fork of two trails, in sandstone boulder; aluminum tablet stamped "Prim Trav Sta No 297 1903 Adj"	1,002.038
Palmer, in SW. corner of foundation stone of post office, 5 ft. above ground; aluminum tablet stamped "T T 131 S 1926 1903 900 Adj"	900.772

(For balance in Berryman quadrangle, see line no. 1.)

Sunlight, 4 mi. W. of, near Crystal Blossom store, 500 ft. E. of house, 7 ft. above spring; aluminum tablet stamped "1903 1021 Adj"	1,021.229
Sunlight, 0.3 mi. S. of, 300 ft. S. of Brock Creek, in SE. corner of stone foundation of Ramsey Grove Church; aluminum tablet stamped "1903 988 Adj"	988.729
Belgrade, 1.5 mi. W. of, 500 ft. S. of H. E. Johnson's house, on E. bank of creek, in rock ledge; aluminum tablet stamped "Prim Trav Sta No 498 1903 904 Adj"	904.218

3. FROM POINT BETWEEN SUNLIGHT AND BELGRADE SOUTHWEST TO SOUTH BORDER OF QUADRANGLE (levelled twice by M. J. Harden in 1924)

Belgrade, 1.5 mi. W. of, on S. side of Brock Creek, in rock ledge 2 ft. above water; aluminum tablet stamped "1903 904 Adj"	904.218
Belgrade, 1.5 mi. W. and 1.8 mi. SW. of, 500 ft. S. of rd. junction, 70 ft. E. of Big River, in root of 10-in. elm tree; copper nail and washer	896.71

(Continued in Edgell quadrangle; see line no. 1.)

4. FROM NORTHWEST CORNER OF QUADRANGLE SOUTHEAST TO FLOYD (by F. S. Kuehnel in 1934)
(Continued from Berryman quadrangle; see line no. 7.)

Floyd, 2.5 mi. NW. of, 1 mi. SW. of Little Pilot Knob, on N. side of rd., in large boulder; aluminum tablet stamped "Prim Trav Sta No 167 1903 1243 Adj" 1,243.018
Reference mark, 20 ft. SE. of tablet, in root on N. side of 12-in. hickory tree; 1,242.81
copper nail and washer

5. WEST ALONG NORTH BORDER OF QUADRANGLE (by C. P. Thompson in 1935)

T. 38 N., R. 2 E., near center of SE $\frac{1}{4}$ sec. 20, 15 ft. W. of intersection of rd. E., in root on E. side of 20-in. oak tree; copper nail and washer 899.79
Potosi, 7 mi. NW. of, by rd., near quarter cor. between secs. 29 and 30, T. 38 N., R. 2 E., 450 ft. NW. of Pleasant Hill Christian Church, 65 ft. W. of crossroads, 2 ft. N. and 10 ft. W. of 20-in. oak tree at fence corner, in concrete post; standard tablet stamped "T T 1711 E R A 1935 815" 815.378
Pleasant Hill Church, 1 mi. W. of, near W. quarter cor. sec. 30, T. 38 N., R. 1 E., 20 ft. S. and 15 ft. E. of rd. corner from E. to S., in root on SW. side of 20-in. maple tree; copper nail and washer 854.00
T. 38 N., R. 1 E., near center of N $\frac{1}{2}$ sec. 36, 18 ft. E. and 15 ft. S. of cross rd., on top of ridge, in root on W. side of 26-in. black oak tree; copper nail and washer 1,027.63
Latty, about 0.5 mi. SE. of old location, near center of E $\frac{1}{4}$ sec. 35, T. 38 N., R. 1 E., 95 ft. E. of Little Fourche a Renault Creek and N.-S. rd., 44 ft. S. of rd., 8 ft. E. of gate to William Atkins' yard, in concrete post; standard tablet stamped "T T 1712 E R A 1935 810" 810.334
T. 38 N., R. 1 E., near center NE $\frac{1}{4}$ sec. 34, approximately 300 ft. N. of Andy Bean's farmhouse, 18 ft. S. of rd., in root on N. side of 26-in. oak tree; copper nail and washer 788.41

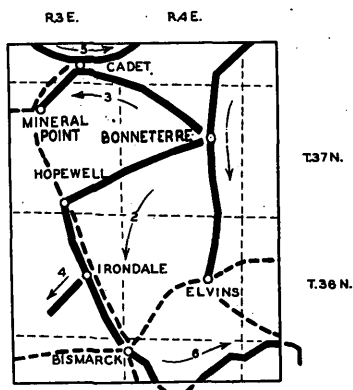
6. FROM NORTH BORDER OF QUADRANGLE SOUTH TO LATTY (by A. R. Friend in 1937)

Latty, about 1.3 mi. N. of, 40 ft. S. and 40 ft. W. of ford across Little Fourche a Renault, in root on N. side of 36-in. sycamore tree; copper nail and washer 730.93
Latty, at site of old post office, 150 ft. W. of Little Fourche a Renault, 10 ft. E. of rd., in root of 10-in. walnut tree in fence line; copper nail and washer 794.25

For additional level lines along State Highways 8 and 32, refer to United States Coast and Geodetic Survey second-order lines; Steelville to Mineral Point and Ste. Genevieve to Licking.

BONNE TERRE QUADRANGLE
(Latitude 37°45'-38°; longitude 90°30'-90°45')

St. Francois and Washington Counties



1. FROM NORTH BORDER OF QUADRANGLE SOUTH ALONG MISSISSIPPI RIVER & BONNE TERRE R. R. TO ELVINS (a single run line by D. V. Vandiver in 1903)

	<u>Feet</u>
Silver Springs, 300 ft. N. of Mississippi River & Bonne Terre R. R. station, in NW. stone abutment of trestle no. 38; aluminum tablet stamped "824"	824.794
Bonne Terre, on SE. corner of platform at Mississippi River & Bonneterre R. R. station	828.9
Bonne Terre, in E. face of foundation at SE. corner of Mississippi River & Bonne Terre R. R. station; standard tablet stamped "829"	829.396
Bonne Terre, in foundation in front of Farmers & Miners Bank; aluminum tablet stamped "824"	824.794
Elvins, in foundation at SE. corner of white building 40 ft. W. of Mississippi River & Bonne Terre R. R.; aluminum tablet stamped "765"	765.422

2. FROM BONNE TERRE WEST TO HOPEWELL, THENCE SOUTHEAST ALONG MISSOURI PACIFIC R. R. TO BISMARCK.

Bonne Terre, 3.5 mi. W. of, along Chat road, 300 ft. N. of spring, 100 ft. from fork, in ledge of stone at forks; standard tablet stamped "905" 905.916
 Hopewell, 600 ft. W. of Missouri Pacific R. R., 300 ft. S. of post office, in stone foundation surrounding big spring; aluminum tablet stamped "858" 858.054
 Irondale, in stone column at right of entrance to Irondale Bank; aluminum tablet stamped "810" 810.379
 Bismarck, 100 ft. NE. of main track of Missouri Pacific R. R., at NW. corner of Bismarck Hotel building, in brick wall, 2 ft. above sidewalk; aluminum tablet stamped "1028" 1,028.948

3. FROM BONNE TERRE NORTHWEST TO CADET, THENCE SOUTHWEST ALONG MISSOURI PACIFIC R. R. TO MINERAL POINT

Bonnetterre, 6.5 mi. W. of, on E. side of Three Hill Creek, 30 ft. above ford, 4 ft. above water, in ledge; standard tablet stamped "678" 678.762
 Mineral Point, 600 ft. S. of Missouri Pacific R. R. station, in SE. stone abutment of bridge over Mill Creek; standard tablet stamped "854" 854.153

4. FROM IRONDALE SOUTHWEST

Irondale, 4.5 mi. SW. of, on top of hill, 90 ft. SW. of rd. forks, in flint stone; standard tablet stamped "1104" 1,104.674

5. IN NORTHWEST CORNER OF QUADRANGLE (by George W. Moore in 1930)

Old Mines, 2.8 mi. SE. of post office, 930 ft. E. of National Pigment Co. R. R. at rd. crossing, 65 ft. W. of T-rd. S., in top of N. head wall of concrete culvert; chiseled square 874.58
 Cadet, 1.1 mi. W. of, 93 ft. E. and 21 ft. N. of crossroads, 20 ft. N. of fence corner, in concrete post; standard tablet stamped "T 19 L 1930" 914.375
 Cadet, 0.4 mi. W. of, 370 ft. E. of T-rd. N., in top of N. head wall of concrete culvert; chiseled square 861.70
 Cadet, 115 ft. W. of semaphore at Missouri Pacific R. R. station, 45 ft. W. of rd. crossing, in top of N. head wall of concrete culvert; chiseled square 803.56
 Cadet, 0.9 mi. SE. of, at junction of Cadet, Bonnetterre, and old Selmo roads, 23 ft. S. and 95 ft. E. of T-rd. SE., in root on N. side of 12-in. oak tree; copper nail and washer 875.68
 Cadet, 1.8 mi. E. of, on Old Selmo road, 90 ft. S. of ford across Mill Creek, at E. edge of rd., in root on SW. side of 36-in. maple tree; copper nail and washer 692.61
 Cadet, 2.5 mi. E. of, 0.6 mi. E. of crossing of Mill Creek, 62 ft. E. and 8 ft. S. of center of triangle at rd. fork N., 10 ft. N. of rd. E., 14 ft. E. of angle in rail fence, in concrete post; standard tablet stamped "T 20 L 1930" 852.887
 Reference mark, 50 ft. NW. of tablet, 6 ft. E. of rail fence, in root on NE. side of 10-in. oak tree; copper nail and washer 849.85
 Cadet, 3.3 mi. E. of, about 1.6 mi. SW. of float bridge over Big River, 105 ft. E. of T-rd. NE., 70 ft. E. of fence corner, at N. edge of rd., in fence line, in root on NW. side of 16-in. oak tree; copper nail and washer 797.19
 Float bridge over Big River, about 0.6 mi. SW. of, 170 ft. E. of large wooden gate across rd., 12 ft. N. of rd., in root on S. side of 8-in. oak tree; copper nail and washer 771.59

6. FROM BISMARCK EAST ALONG MISSOURI PACIFIC R. R. TO EAST BORDER OF QUADRANGLE (by F. C. Lentz in 1935)

U. S. C. & G. S. B. M. designated "G 55 1934" 1,026.927
 Bismarck, 1 mi. E. and 1 mi. S. of, along Missouri Pacific R. R., 190 ft. S. of rd. crossing, 15 ft. E. of rd., in head wall of concrete culvert; chiseled square 994.38

(For balance in Middlebrook quadrangle, see line no. 5.)

Bismarck, 3.5 mi. E. of, along Missouri Pacific R. R., 100 ft. E. of milepost no. 79-2, 16 ft. NW. of track, in granite ledge; standard tablet stamped "9 L 1935" 934.704
 Bismarck, 4.4 mi. E. of, along Missouri Pacific R. R., 15 ft. S. of track, in top of concrete milepost no. 80; copper rod 931.89
 Bismarck, 5.4 mi. E. of, along Missouri Pacific R. R., 150 ft. S. of milepost no. 81-0, 50 ft. SE. of track, at private rd. crossing, in root on N. side of 30-in. white oak tree; copper nail and washer 921.30
 Bismarck, 6.3 mi. E. of, along Missouri Pacific R. R., 100 ft. N. of Big River, 100 ft. E. of milepost no. 82-3, 10 ft. N. of track, on granite ledge; painted square 912.11

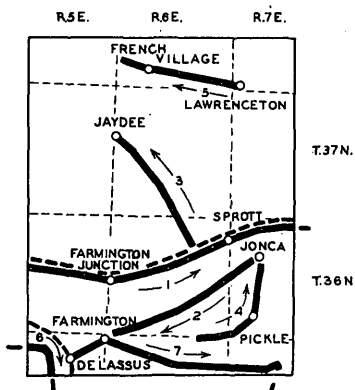
(Continued in Farmington quadrangle; see line no. 6.)

For additional level lines along Missouri Pacific R. R., Missouri-Illinois R. R., and State Highway 32, refer to United States Coast and Geodetic Survey second-order lines; Riverside to Williamsville, Elvins to Taskee, Steelville to Mineral Point, and Ste. Genevieve to Licking.

SPIRIT LEVELING IN MISSOURI

FARMINGTON QUADRANGLE
(Latitude 37°45'-38"; longitude 90°15'-90°30')

St. Francois and Ste. Genevieve Counties



1. EAST ALONG MISSOURI-ILLINOIS R. R., BY WAY OF FARMINGTON JUNCTION, TO EAST BORDER OF QUADRANGLE (by D. V. Vandiver in 1903)

Farmington Junction, in foundation at SE. corner of Missouri-Illinois R. R. station; standard tablet stamped "955" Foot
955.757

2. FROM POINT NEAR JONCA SOUTHWEST TO FARMINGTON

Jonca Creek, 1.5 mi. SW. of Missouri-Illinois R. R. at crossing of Plank Road, in NE. corner of stone abutment of iron bridge; aluminum tablet stamped "760" 760.369
Valley Forge, in NE. corner of stone abutment of bridge over Wolf Creek; standard tablet stamped "853" 853.204
Farmington, at W. side of entrance on S. side of courthouse, 2 ft. above ground, in foundation; aluminum tablet stamped "917" 917.901

3. FROM POINT 2 MILES SOUTHWEST OF SPROTT NORTHWEST TO JAYDEE

Salem Church, in SW. corner of stone foundation; standard tablet stamped "834" 834.365
Jaydee, opposite post office, in SE. corner of foundation of N. Chatman's house; standard tablet stamped "Prim Trav Sta No 60 804" 804.750

4. IN VICINITY OF PICKLE

Pickle, 0.9 mi. E. of, in NE. corner of Oak Grove School; standard tablet stamped "1053" 1,053.107

5. FROM LAWRENCETON WEST TO POINT 2 MILES NORTHWEST OF FRENCH VILLAGE

Lawrenceton, 250 ft. W. of church, 100 ft. N. of rd., in small branch, in limestone ledge; aluminum tablet stamped "1903 561 Adj" 561.495
French Village, in foundation at SE. corner of springhouse; standard tablet stamped "898" 898.713
French Village, 1 mi. NW. of, 0.5 mi. S. of little log schoolhouse, on limestone ledge; painted point 874.54
French Village, 2 mi. NW. of, 100 ft. S. of rd. fork, on E. side of rd., on rock; painted point 876.44

6. IN SOUTHWEST CORNER OF QUADRANGLE (by F. C. Lentz in 1935)
(Continued from Bonne Terre quadrangle; see line no. 6.)

Bismarck, 7.3 mi. E. of, along Missouri Pacific R. R., 50 ft. S. and 75 ft. E. of rd. crossing, 25 ft. NE. of NE. corner of old house, in root of 30-in. elm tree; copper nail and washer 897.04
U. S. C. & G. S. B. M. designated "Y 54 1934" 893.965
U. S. C. & G. S. B. M. designated "Z 54 1935" 889.650
U. S. C. & G. S. B. M. designated "R 56 1934" 885.543
Doe Run Junction, 1 mi. SE. of, 50 ft. W. of Mississippi River & Bonnetterre R. R., 350 ft. W. of County Route W, in S. side of 14-in. black oak tree; copper nail and washer 932.93

(Continued in Knob Lick quadrangle; see line no. 5.)

7. FROM DE LASSUS EAST, BY WAY OF FARMINGTON, TO SOUTHEAST CORNER OF QUADRANGLE.

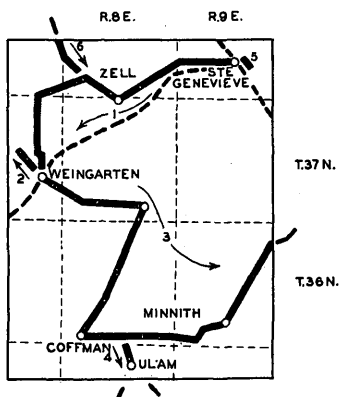
U. S. C. & G. S. B. M. designated "E 56 1934"	889.719
Reference mark, 90 ft. S. of tablet, in 36-in. black oak tree; copper nail and washer	889.38
De Lassus, 0.7 mi. NE. of, along electric R. R., at County Route W, 45 ft. SE. of highway, 50 ft. NW. of track, in root on E. side of 15-in. white oak tree; copper nail and washer	895.89
Farmington, at W. limits of, near entrance to State Hospital, 100 ft. E. of electric R. R. track, in root on N. side of 50-in. water oak tree; copper nail and washer	920.00
Farmington, at W. side of entrance on S. side of courthouse, 2 ft. above ground, in foundation; aluminum tablet stamped "917"	917.901
Reference mark, W. of tablet, in SW. corner of concrete base of flagpole; painted square	916.07
Farmington, 1 mi. E. of, 30 ft. N. and 10 ft. W. of intersection of U. S. Highway 61 and State Highway 32, 20 ft. S. of fence, in top of rock head wall; chiseled square	882.32
Farmington, 1 mi. S. and 1 mi. E. of, 100 ft. N. and 25 ft. E. of T-rd. E., in root on W. side of 40-in. black oak tree; copper nail and washer	857.27
T. 35 N., R. 6 E., near center sec. 4, 15 ft. S. of rd., 50 ft. NE. of NE. corner of Westmyer's residence, in root on N. side of 40-in. white oak tree; copper nail and washer	859.66
T. 35 N., R. 6 E., in NE $\frac{1}{4}$ sec. 4, 25 ft. S. and 28 ft. W. of crossroads, 4 ft. S. of fence, in sandstone post; standard tablet stamped "10 L 1935"	899.665
Reference mark, 50 ft. E. of tablet, in S. head wall of concrete culvert; chiseled square	900.99
T. 35 N., R. 6 E., in NW $\frac{1}{4}$ sec. 2, 20 ft. S. and 85 ft. E. of T-rd. N., in 3-in. black oak tree; copper nail and washer	952.00
T. 35 N., R. 6 E., near quarter cor. between secs. 1 and 2, 26 ft. S. of rd., 4 ft. S. of fence, in root on N. side of 38-in. black oak tree; copper nail and washer	900.02
T. 35 N., R. 6 E., in SE $\frac{1}{4}$ sec. 1, 75 ft. S. of T-rd. N., 50 ft. S. of E.-W. fence, 27 ft. W. of N.-S. fence, in sandstone ledge; standard tablet stamped "11 L 1935"	987.089
T. 35 N., R. 7 E., sec. 6, 25 ft. N. of rd., 15 ft. S. of fence, in 14-in. white oak tree; copper nail and washer	1,054.58
T. 35 N., R. 7 E., sec. 5, 100 ft. N. of schoolhouse, 110 ft. S. of E.-W. rd., 70 ft. E. of N.-S. rd., in root on N. side of 24-in. white oak tree; copper nail and washer	1,012.85
T. 35 N., R. 7 E., in SW $\frac{1}{4}$ sec. 4, (actually in land grant), 80 ft. NE. of NE. corner of E. S. Harter's barn, 20 ft. S. of T-rd. N., in root on NW. side of 30-in. white oak tree; copper nail and washer	1,071.30
Avon, 2 mi. W. of, just E. of Avon-Farmington road at N.-S. cross rd., 10 ft. E. of honey locust tree; iron post stamped "Prim Trav Sta No 4 1907 Missouri"	988.779
Reference mark, 80 ft. N. of post, in second step of store building; chiseled square	990.08

(Continued in Knob Lick quadrangle; see line no. 4.)

For additional level lines along Missouri-Illinois R. R. and Missouri Pacific R. R., refer to United States Coast and Geodetic Survey second-order lines; Ste. Genevieve to Licking and Elvins to Taskee.

WEINGARTEN QUADRANGLE *
(Latitude 37°45'-38°; longitude 90°-90°15')

Perry and Ste. Genevieve Counties



Most of the leveling was done in 1907 by Edward Bandli. Additional leveling was done in 1913 by R. G. Clinite and G. W. Lucas.

* Part of this quadrangle lies in Illinois.

1. FROM STE. GENEVIEVE WEST TO POINT 5.5 MILES WEST OF ZELL, THENCE SOUTH TO WEINGARTEN.

	<u>Feet</u>
U. S. C. & G. S. B. M. designated "33"	400.734
Ste. Genevieve, 3.9 mi. W. of, 300 ft. E. of rd. forks, 100 ft. S. of rd. across creek, in ledge forming S. bank of creek; aluminum tablet stamped "476"	476.454
Zell, 500 ft. N. of, at first rd. intersection, in rock between two trees; aluminum tablet stamped "614"	613.504
Zell, 2.7 mi. NW. of, on top of hill, 15 ft. N. of rd., 3 ft. S. of fence, in sandstone ledge; aluminum tablet stamped "607"	609.301
Weingarten, 5 mi. N. of, 300 ft. S. of T-rd., 20 ft. E. of fence, 5 ft. W. of rd., in ledge; aluminum tablet stamped "587"	587.143
Weingarten, 2.7 mi. N. of, about 635 ft. from Mr. Repson's house, 30 ft. E. of T-rd., 20 ft. E. of oak at SE. fence corner; iron post stamped "767"	769.728
Weingarten, in SW. corner of concrete foundation of Missouri-Illinois R. R. water tank; aluminum tablet stamped "833"	833.698

2. FROM WEINGARTEN NORTHWEST

Weingarten, 4.5 mi. NW. of, along rd. to Lawrenceton, at S. side of Hickory Creek ford, 200 ft. SW. of old sawmill, 50 ft. S. of rd., in limestone bluff; standard tablet stamped "503" 504.079

3. FROM WEINGARTEN EAST TO RIVER AUX VASES, THENCE SOUTHWEST TO COFFMAN, THENCE EAST TO MINNITH, THENCE NORTHEAST TO EAST BORDER OF QUADRANGLE

Weingarten, 2.4 mi. E. of, 0.1 mi. from Brischle's house, 30 ft. S. of curve in rd. to S., in ledge of rock on opposite side of creek from rd.; aluminum tablet stamped "606"	605.565
River Aux Vases, 0.8 mi. N. of, along rd. from Weingarten, 15 ft. S. of rd., in front of church, in ledge; aluminum tablet stamped "475"	474.622
River Aux Vases, 3.3 mi. S. of, along rd. to Coffman, 0.2 mi. NE. of house and old blacksmith shop, at intersection of rd. from SW., in large rock; aluminum tablet stamped "886"	885.200
River Aux Vases, 5.2 mi. S. of, along rd. to Coffman, on N. side of rd., 0.4 mi. N. of house on N. side of hill, 200 ft. from intersection of rd. NW., 60 ft. from intersection of rd. SE.; aluminum tablet stamped "947"	945.973
Coffman, 0.5 mi. NE. of, at foot of hill, 33 ft. N. of rd., 15 ft. S. of fence, in ledge; aluminum tablet stamped "715"	714.863
Coffman, 3.2 mi. E. of, 250 ft. NE. of Saline Valley R. R. at rd. crossing, 60 ft. N. of rd., in ledge; aluminum tablet stamped "558"	563.198
Coffman, 7.1 mi. E. of, 180 ft. NW. of Saline Valley R. R. at rd. crossing, 100 ft. N. of track, 140 ft. W. of rd., in ledge; aluminum tablet stamped "448"	467.045
Minnith, 960 ft. S. of, 22 ft. E. of Saline Valley R. R. track, 4 ft. from cedar tree, in ledge; aluminum tablet stamped "437"	436.847
Minnith, 1.2 mi. NE. of, across rd. from Saline Valley R. R. trestle over rd. NW., 18 ft. SE. of rd. to St. Marys, 300 ft. S. of rd. curve to E., 8 ft. S. of large oak tree; aluminum tablet stamped "416"	417.054
St. Marys, 6 mi. SW. of, on N. side of rd., near valley N. from rd., in ledge; aluminum tablet stamped "482"	485.059

(Continued in Chester quadrangle; see line no. 1.)

4. FROM SALINE VALLEY SOUTH TO POINT NEAR ULAM

Ulam, near old site of post office, W. of St. Marys-Farmington road at rd. S. to Fredericktown; iron post stamped "Prim Trav Sta No 3 1907 Missouri" 527.508

5. AT STE. GENEVIEVE

Ste. Genevieve, near center of E. side of courthouse yard, 3 ft. inside of iron fence; iron post stamped "401" 400.889

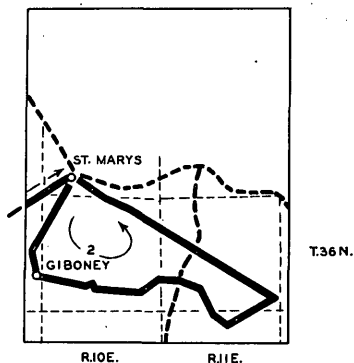
6. FROM NORTH BORDER OF QUADRANGLE SOUTH TO POINT 2.5 MILES NORTHWEST OF ZELL

Bloomsdale, 0.8 mi. S. of, on S. side of creek, 5 ft. S. of telephone pole; top of large rock	391.07
Bloomsdale, 2.1 mi. S. of, at turn in rd. to W., 700 ft. S. of one-story house, on E. side of rd., in foot of 30-in. oak tree; spike	506.02

For an additional level line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, St. Louis, Mo. to Cairo, Ill. For an additional line along Missouri-Illinois R. R., refer to United States Coast and Geodetic Survey second-order line, Ste. Genevieve to Licking.

CHESTER QUADRANGLE*
(Latitude 37°45'-38°; longitude 89°45'-90°)

Perry and Ste. Genevieve Counties



Most of the leveling was done in 1907 by Edward Bandli. Additional leveling was done in 1913 by R. G. Clinite and G. W. Lucas.

1. FROM WEST BORDER OF QUADRANGLE NORTHEAST TO ST. MARYS
(Continued from Weingarten quadrangle; see line no. 3.)

St. Marys, 4.5 mi. from, halfway between bottom and top of hill, about 30 ft. S. of rd., near edge of bluff, 11 ft. SW. of large tree, in ledge; aluminum tablet stamped "466"	Feet 467.636
U. S. C. & G. S. B. M. designated "35"	388.605
U. S. C. & G. S. B. M. designated "36"	395.698

2. FROM ST. MARYS SOUTHWEST TO GIBONEY, THENCE EAST ALONG CAPE GIRARDEAU NORTHERN R. R. AND ROADS TO EAST BORDER OF QUADRANGLE, THENCE NORTHWEST ALONG ST. LOUIS-SAN FRANCISCO R. R. TO ST. MARYS.

St. Marys, 1.4 mi. S. of, along rd. following St. Lawrence Creek, at intersection of Old Lead road, 300 ft. S. of bridge, in base of SW. corner post; copper nail	399.28
St. Marys, 2.9 mi. SW. of, at intersection of Old Lead road and Perryville Road, about 500 ft. NW. of brick house, S. of intersection, inside of wire fence, in top of oak stump; copper nail	605.04
St. Marys, 3.3 mi. SW. of, at intersection of Perryville and Mine La Motte Roads, 250 ft. W. of house, in triangle formed by intersection of rds.; iron post stamped "Mo 592"	591.872
St. Marys, 4.8 mi. SW. of, near rd. forks, 100 ft. E. of Big Saline Creek, at bottom of Rocky Hill, in root of 24-in. oak tree; copper nail	399.13
St. Marys, 5.6 mi. SW. of, S. of T-rd. N., in root of lone oak tree; copper nail	420.85
St. Marys, 6.3 mi. SW. of, about 1 mi. W. of Lead station, along Cape Girardeau Northern R. R. at rd. crossing, 60 ft. N. of track, 30 ft. E. of rd.; iron post stamped "Mo 404"	403.810
Giboney, on Cape Girardeau Northern R. R., N. of rd. crossing, E. of rd., in base of warning post; copper nail	488.63
Giboney, 0.9 mi. E. of, along Cape Girardeau Northern R. R., near rd. crossing, 40 ft. N. of track, 10 ft. E. of rd., in root of 15-in. oak tree; copper nail	542.44
Giboney, 2.3 mi. E. of, along Cape Girardeau Northern R. R., near rd. crossing, 40 ft. N. of track, 60 ft. W. of rd., 15 ft. E. of lone oak tree; iron post stamped "Mo 565"	564.529
Giboney, 3.6 mi. E. of, along Cape Girardeau Northern R. R. near rd. crossing, 10 ft. E. of rd., 5 ft. N. of track, in top of 6-by 8-in. post; copper nail	579.72
Saline Junction, 0.9 mi. W. of, along Cape Girardeau Northern R. R. near rd. crossing, 100 ft. E. of derail switch, in base of warning post; copper nail	512.96
Saline Junction, along Cape Girardeau Northern R. R., at E. end of triangle formed in switch post; by tracks, in switch post; spike	492.61
Saline Junction, 0.3 mi. SE. of, along Cape Girardeau Northern R. R. near rd. crossing, 50 ft. E. of track, 20 ft. N. of rd., near right-of-way fence; iron post stamped "Mo 521"	520.066
Saline Junction, 0.7 mi. NE. of, about 0.3 mi. NE. of Tucker School, at intersection of Sereno and Perryville-Lithum roads, in root of 18-in. oak tree; spike	559.15
Sereno, about 1 mi. W. of, at rd. forks, on top of hill, 300 ft. W. of house, in root of 18-in. oak tree; copper nail	541.89
Sereno, in SE. corner of lot owned by Catholic Church, 150 ft. N. of blacksmith shop, 100 ft. W. of store; iron post stamped "Mo 622"	621.483
Sereno, about 1 mi. SE. of, 150 ft. W. of rd. forks, at turn in rd., in root of blazed 20-in. oak tree; spike	582.30
Sereno, 1.4 mi. SE. of, at T-rd. S., 600 ft. N. of house, in root of 30-in. oak tree; copper nail	601.21
Sereno, 2.4 mi. SE. of, at T-rd. W., 500 ft. E. of Mr. Manning's house, 150 ft. N. of fork of new Allens Landing road, in root of 15-in. oak tree; copper nail	516.73

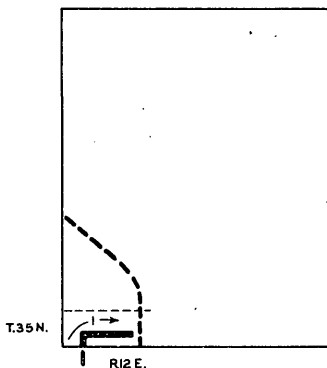
* Part of this quadrangle lies in Illinois.

Sereno, 2.8 mi. SE. of, at rd. forks, 200 ft. S. of Huber Branch, in root of 24-in. oak tree; copper nail	496.64
Perryville, 5 mi. NE. of, 4.4 mi. SE. of Sereno, on old Allens Landing road, at rd. forks, 100 ft. S. of house, on S. side of rd.; iron post stamped "Mo 588"	587.256
Perryville, 6 mi. NE. of, on old Allens Landing road, 300 ft. E. of big red barn on J. J. Klump's farm, 20 ft. E. of wooden gate, N. of rd., in root of persimmon tree; copper nail	577.07
Perryville, 7.4 mi. NE. of, on Allens Landing road, at rd. forks, on top of big hill, 100 ft. N. of large house, 150 ft. NE. of old store building, 10 ft. N. of rd., in root of small oak tree; copper nail	535.14
Menfro, 2 mi. NW. of, along St. Louis-San Francisco R. R. at rd. crossing, near T-rd. SE., 75 ft. W. of track, 20 ft. N. of rd. fork; iron post stamped "Mo 363"	362.156
Menfro, 2.6 mi. NW. of, along St. Louis-San Francisco R. R., in E. guardrail at N. end of bridge no. 85.8; bolt	370.33
Menfro, 3.8 mi. NW. of, along St. Louis-San Francisco R. R., at rd. crossing, 150 ft. W. of house, in NE. cattle guard; copper nail	375.23
Menfro, 5.1 mi. NW. of, along St. Louis-San Francisco R. R., at underpass, W. of track, just outside of right-of-way N. of rd.; iron post stamped "Mo 363"	362.533
Menfro, 6.5 mi. NW. of, along St. Louis-San Francisco R. R., near rd. crossing, in SW. corner of wooden abutment of bridge no. 81.9; copper nail	372.87
Mc Bride, along St. Louis-San Francisco R. R., at rd. crossing, 100 ft. S. of station, N. of rd.; near W. right-of-way fence; iron post stamped "Mo 370"	371.699
Mc Bride, 1.9 mi. NW. of, along St. Louis-San Francisco R. R., at rd. crossing, N. of rd., 7 ft. E. of track, in top of 6-by 6-in. post, 2 ft. above ground; copper nail	376.46
Mc Bride, 2.6 mi. NW. of, along St. Louis-San Francisco R. R., at rd. crossing, near milepost no. 78, near W. end of Marie siding, 20 ft. N. of rd., 7 ft. E. of track, in 6-by 6-in. post; copper nail	377.36
Mc Bride, 3.7 mi. NW. of, along St. Louis-San Francisco R. R., in W. guardrail at S. end of bridge no. 76; bolt	376.84
Perryville Junction, along St. Louis-San Francisco R. R., 100 ft. W. of station, under 24-in. elm tree; iron post stamped "Mo 374"	372.968
Perryville Junction, 0.7 mi. NW. of, along St. Louis-San Francisco R. R., near rd. crossing, 15 ft. W. of track, 5 ft. S. of rd., in base of warning post; copper nail	377.31

For an additional level line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, St. Louis, Mo. to Cairo, Ill. For an additional line along State Highway 51, refer to United States Coast and Geodetic Survey second-order line, Fredericktown to Claryville.

CAMPBELL HILL QUADRANGLE*
(Latitude 37°45'-38°; longitude 89°30'-89°45')

Perry County



1. IN SOUTHWEST CORNER OF QUADRANGLE EAST TO GRAND EDDY (by R. T. Gale in 1921)
(Continued from Altenburg quadrangle; see line no. 4.)

Crosstown, 1.5 mi. E. of, along rd. to Grand Eddy, on top of high ridge, in fence line, in root of black oak tree; copper nail and washer	592.72
Crosstown, 2.1 mi. E. of, along rd. to Grand Eddy, NW. of junction with rd. to Red Rock, in root of black oak tree; copper nail and washer	553.11
U. S. C. E. B. M. designated "42"	371.581

For an additional level line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, St. Louis, Mo. to Cairo, Ill.

* Part of this quadrangle lies in Illinois.