SPIRIT LEVELING IN MISSOURI

PART 7. CENTRAL MISSOURI
1896–1938

J. G. STAACK
Chief Topographic Engineer

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

Scope of report.—This bulletin, which for convenience is to be published in eight parts, contains the results of all spirit leveling done in Missouri by the Geological Survey, United States Department of the Interior, 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 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 1938, 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
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 unbal-
anced sights, as well as the orthometric corrections required because of the conver-
gence 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 Geo-
detic 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 Mis-
souri 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 adjust-
ments 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 sup-
plementary 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 3-7/8 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 lev-
elling 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 dis-
carded. 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 ce-
mented 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 Sur-
vey", a cross at the center, which indicates the fiducial point for position or eleva-
tion, 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. In June 1938 a field party was organized and charged with the responsibility of stamping figures of elevation, to the nearest foot, on the permanent benchmarks established in the State by the Geological Survey. Thus, these figures may appear stamped on the tablets in addition to the identifying letters and numbers quoted in the printed descriptions. 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, Geological Survey, United States Department of the Interior, 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 3 feet in length and 3/4 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 1/4 inches in length and 1 inch in diam-
eter and has a slot at one end into which fits a brass wedge. The wedge serves to ex-

pand 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 abbre-

viated word "Ft.", and the figures of elevation.

Supplementary benchmarks are of many kinds. One kind consists of a copper nail 1½

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 hori-

zontal 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

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, Geological Survey, United States Department of

the Interior, Washington, D.C., before taking any action affecting the location or

elevation of the mark. A proper form, accompanied by a return-addressed, franked en-

velope, will be sent for use in reporting the action taken and in recording the re-

vised 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 re-
ferred 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 deter-
mained 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.—Central Missouri, as the term is used in this bulletin and
as the subject of part 7 of the bulletin, is that section of the State lying between
latitudes 38°00' and 39°30' and between longitudes 92°00' and 93°30'. (See fig. 13.)

*See Jones, E. L., Hypsometry—Use of mean sea level as the datum for elevations:
U.S. Coast and Geodetic Survey Special Pub. 11, 1917. Manual of tide observations:
U.S. Coast and Geodetic Survey Special Pub. 196, 1935.
Index map.—The accompanying index map of central Missouri (fig. 14) 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 referred to in listing the results of leveling in central Missouri measure 15 minutes in latitude by 15 minutes in longitude. Possible topographic mapping on a larger scale in some of the quadrangle areas may make it necessary to use, for newer 7.5-minute quadrangles, the names shown on this index map for 15-minute quadrangles. On the index map the name of each quadrangle is accompanied by the number of the page on which begins the list of descriptions of benchmarks in that quadrangle.

Figure 13.—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 central Missouri.

Maps of many of the quadrangles in central 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, Geological Survey, United States Department of the Interior, or in cash—the exact amount, at sender's risk. Postage stamps should not be sent.
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.

Figure 114.—Index map of central Missouri showing the quadrangles into which this section of the State has been divided.
Personnel.—The leveling of the United States Geological Survey in central 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 in the Washington office by V. S. Benfell, computer, assisted by P. W. Goin, junior engineer. 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 was in charge of W. R. Broaddus, of the United States Geological Survey. The work in the Washington office was under the supervision of R. M. Wilson, chief of the section of computing, under the general direction of J. O. Staack, chief topographic engineer.
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| Vogel triangulation sta       | 981              |
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| Weaver School                 | 961              |
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| Westphalia                    | 890-891, 892,    |
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| Yatess                        | 922              |
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THIRD-ORDER LEVELING

MADISON QUADRANGLE
(Latitude 39°15'-39°30'; longitude 92°00'-92°15')
Audrain and Monroe Counties

(Continued from Moberly quadrangle; see line 3.)

| T. 52 N., R. 12 W., in NW 1/4 sec. 22, at T-rd. E., in front yard of farmhouse, in 30-in. ash tree; copper nail and washer |
| 842.11 |
| T. 52 N., R. 12 W., in SW 1/4 sec. 15, at T-rd. W., in root of twin locust tree; copper nail and washer |
| 842.73 |
| T. 52 N., R. 12 W., near SW cor. sec. 10, 20 ft. N. of fence, in root of 24-in. ash tree; copper nail and washer |
| 843.52 |

(For balance in Moberly quadrangle, see line 3.)

| Middle Grove, 1.2 mi. NE. of, in NE 1/4 sec. 9, T. 53 N., R. 12 W., about 0.2 mi. W. of turn in rd. from SW.-N., in root of 24-in. elm tree; copper nail and washer |
| 809.33 |
| T. 53 N., R. 12 W., cor. secs. 3, 4, 9, and 10, 200 ft. N. of T-rd. E., W. of rd., in root of 28-in. elm tree; copper nail and washer |
| 817.40 |
| T. 53 N., R. 12 W., near N. cor. secs. 3 and 4, opposite private rd. W., in root of 24-in. walnut tree; copper nail and washer |
| 777.96 |
| T. 54 N., R. 12 W., in SW 1/4 sec. 34, at entrance to Ownby School, on N. corner of top step; chiseled square |
| 792.23 |
| T. 54 N., R. 12 W., near cor. secs. 27, 28, 33, and 34, at T-rd. S., in root of 18-in. oak tree; copper nail and washer |
| 776.15 |
| T. 54 N., R. 12 W., near quarter cor. between secs. 27 and 34, 30 ft. N. and 20 ft. E. from T-rd. N., in concrete post; standard tablet stamped "65 C W A 1934" |
| 777.056 |
| Reference mark, at T-rd. N., on center stone of W. head wall of culvert; chiseled square |
| 776.27 |
| T. 54 N., R. 12 W., near center sec. 27, in front yard of farmhouse of Clay Swartz, in root of 15-in. locust tree; copper nail and washer |
| 781.25 |
| T. 54 N., R. 12 W., near quarter cor. between secs. 22 and 27, on E. head wall of culvert; chiseled square |
| 726.15 |
| T. 54 N., R. 12 W., near center sec. 22, in front yard of farmhouse, in root of 30-in. maple tree; copper nail and washer |
| 787.81 |
| T. 54 N., R. 12 W., near quarter cor. between secs. 15 and 22, 0.5 mi. S. of U.S. Highway 24, in root of 36-in. elm tree; copper nail and washer |
| 775.24 |
| T. 54 N., R. 12 W., near center sec. 15, on U.S. Highway 24, at rd. S., on W. head wall of culvert; chiseled square |
| 775.67 |
| T. 54 N., R. 12 W., near quarter cor. between secs. 15 and 16, 50 ft. N. and 25 ft. W. from U.S. Highway 24, at rd. N., in concrete post; standard tablet stamped "64 C W A 1934" |
| 790.397 |
| Reference mark, NE. of highway at rd. N., on E. head wall of culvert; chiseled square |
| 788.31 |

(Continued in Moberly quadrangle; see line 3.)


| 787.978 |

Reference mark, 70 ft. W. of tablet, on center of S. head wall of concrete culvert; chiseled square

787.16
T. 53 N., R. 10 W., on line between secs. 15 and 22, 60 ft. N. of highway, in root of twin maple tree; crossed nails. 788.51
T. 53 N., R. 10 W., cor. secs. 15, 22, 20 ft. S. and 15 ft. N. from crossroad, on center of W. head wall of concrete culvert; chiseled square. 790.28
T. 53 N., R. 10 W., on line between secs. 16 and 21, in front of dwelling, in root of 12-in. cedar tree; copper nail and washer. 783.49
T. 53 N., R. 10 W., cor. secs. 16, 17, 20, and 21, 40 ft. S. and 100 ft. E. from crossroad; in root of 10-in. oak tree; copper nail and washer. 787.37
T. 53 N., R. 10 W., on line between secs. 16 and 21, in front of dwelling. 799.2
Top of hill, at corner fence post; surface of ground. 799.2
T. 53 N., R. 10 W., cor. secs. 17, 18, 19, and 20, 38 ft. S. of highway, 2 ft. N. of corner fence post; concrete post; standard tablet stamped "1927 ERA 1935". 794.522
T. 53 N., R. 10 W., cor. secs. 15, 16, 21, and 22, 20 ft. S. and 15 ft. W. from crossroad; chiseled square. 785.11
T. 53 N., R. 10 W., near W. sixteenth cor. between secs. 15 and 21, opposite junction of rd. N., in root of 12-ln. ash tree; crossed nails. 805.86
T. 53 N., R. 11 W., in SE 1/4, 30 ft. N. and 15 ft. W. from junction of lane N. to barnyard of Cicero Murphy, in root on SW. side of 20-in. locust tree; copper nail and washer. 806.68
T. 53 N., R. 11 W., cor. secs. 14, 15, 22, and 23, 30 ft. S. and 90 ft. E. from Junction of County Route 0, 58 ft. N. and 12 ft. W. from lone 24-in. elm tree, in concrete post; standard tablet stamped "1926 ERA 1935". 811.568
T. 53 N., R. 11 W., cor. secs. 15, 16, 21, and 22, on SW. corner of front concrete step of dwelling of Clyde Marshall; chiseled square. 812.50
T. 53 N., R. 11 W., cor. secs. 16, 17, 20, and 21, 30 ft. S. and 300 ft. E. from rd. corner N.-W., in root on SW. side of 16-ln. cherry tree; copper nail and washer. 809.36
T. 53 N., R. 11 W., near quarter cor. between aecs. 17 and 20, 130 ft. W. of T-rd. S., on SW. concrete wing wall of small bridge; chiseled square. 822.56
T. 53 N., R. 11 W., cor. secs. 19, 20, 25, and 26, 10 ft. N. and 30 ft. E. from NE. corner of Aflick School, 30 ft. S. and 60 ft. W. from T-rd. N., on concrete base of flagpole; chiseled square. 830.35
T. 53 N., R. 11 W., near quarter cor. between secs. 25 and 26, near crest of slope, at driveway to barn, in root on SW. side of 14-ln. mulberry tree; nail and washer. 846.68
T. 53 N., R. 11 W., near quarter cor. between secs. 22 and 25, 28 ft. E. from rd. at fence; in root of 15-ln. oak tree; crossed nails. 822.99
T. 53 N., R. 12 W., cor. secs. 23, 24, 25, and 26, 10 ft. N. and 30 ft. E. from NE. corner of Afflick School, 60 ft. S. and 60 ft. W. from T-rd. S., on concrete base of flagpole; chiseled square. 850.35
T. 53 N., R. 12 W., near quarter cor. between secs. 25 and 26, near crest of slope, at driveway to barn, in root on SW. side of 14-ln. mulberry tree; nail and washer. 866.88
T. 53 N., R. 12 W., cor. secs. 23, 24, 25, and 26, 36 ft. S. and 165 ft. E. from rd. at fence; in root of 15-ln. oak tree; crossed nails. 786.26
T. 53 N., R. 12 W., near quarter cor. between secs. 21 and 22, opposite T-rd. W., in root of 15-ln. oak tree; crossed nails. 778.09
(Continued in Moberly quadrangle; see line 4.)

3. FROM SEC. 11, T. 53 N., R. 10 W., NORTH ALONG STATE HIGHWAY 15 TO PARIS, INCLUDING THAT PART OF THE LINE IN FLORIDA QUADRANGLE (by B. A. Barnes in 1935)*

T. 53 N., R. 10 W., in SE 1/4 sec. 3, 70 ft. S. of private lane W. to farmhouse of R. N. Davis, on center of W. head wall of concrete culvert; chiseled square. 699.95
Junction of rd. E.; surface of highway. 735.9
T. 53 N., R. 10 W., near quarter cor. between secs. 34 and 35, near junction of rd. E., on S. head wall of concrete culvert; chiseled square. 747.75
Crossroad, on SE. head wall of concrete culvert; chiseled square. 757.879
Paris, about 2.5 mi. S. of, in top of upstream end of S. pier of S. truss of bridge over Elk Fork of Salt River; standard tablet (set by water-research branch of U.S. Geol. Survey) 645.998
Paris, 1.5 mi. S. of, center of E. head wall of concrete culvert; chiseled square. 675.41

*Published also as line 5 of the Florida quadrangle (see Bull. 898-F, p. 769).
Paragraph 4.

T. 55 N., R. 10 W., cor. secs. 22, 23, 26, and 27, 30 ft. N. and 25 ft. W. from crossroad, on center of N. head wall of concrete culvert; chiseled square

Top of hill, 80 ft. S. of filling sta., in root of 20-in. walnut tree; crossed nails

T. 55 N., R. 10 W., on line between secs. 1, 1, and 3, in top of upsteam end of S. abutment of bridge; standard tablet (set by water-resources branch of U.S. Geol. Survey)

Tpa. 55 N., R. 10 W., cor. secs. 2, 3, 34, and 35, 30 ft. N. and 40 ft. E. from crossroad, on center of N. head wall of concrete culvert; chiseled square

Farmhouse, in front yard of, in root of 18-in. ash tree; crossed nails

U.S.C. & G.S. standard disk stamped "Z 123 1935" 784.241

U.S.C. & G.S. standard disk stamped "X 123 1935" 796.088


T. 54 N., R. 10 W., on SW. concrete wing wall of steel bridge over Youngs Creek; chiseled square

Madison, 0.6 mi. W. of, SW. head wall of concrete culvert; chiseled square


Madison, 0.6 mi. W. of, 22 ft. N. and 60 ft. E. from junction of rd. E., on head wall of culvert; chiseled square

T. 52 N., R. 10 W., quarter cor. between secs. 13 and 14, SW. of toilet; chiseled square

Skinner, 0.8 mi. N. of, SW. head wall of steel bridge over branch; chiseled square

T. 52 N., R. 10 W., near cor. of cemetery; chiseled square

5. FROM MOBERLY QUADRANGLE EAST ALONG U.S. HIGHWAY 24 TO PARIS (by Cornish Beck in 1936) **

(Continued from Moberly quadrangle; see line 5.)

T. 54 N., R. 12 W., near E. sixteenth cor. sec. 16, 50 ft. N. and 12 ft. S. from junction of rd. S., in side of 16-in. water-oak tree; nail

T. 54 N., R. 12 W., near corner cor. between secs. 15, 16, 15, 25 ft. N. and 35 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "U 123 1935" 805.44

T. 54 N., R. 12 W., near center sec. 15, 25 ft. S. and 18 ft. W. from junction of rd. S., on head wall of culvert; chiseled square

T. 54 N., R. 12 W., near corner cor. between secs. 14, 15, 15 ft. S. and 25 ft. W. from head wall of culvert; chiseled square

Madison, 0.6 mi. W. of, 22 ft. N. and 60 ft. E. from junction of rd. E., on head wall of culvert; chiseled square


Madison, at E. limits of, 25 ft. S. and 20 ft. W. from junction of rd. Route T, on end of curb; chiseled square

Madison, 0.6 mi. W. of, 156 ft. S. and 14 ft. W. from junction of rd. S., on SW. concrete wing wall of small bridge over branch; chiseled square

T. 54 N., R. 11 W., on line between sec. 7 and 8, 40 ft. E. from crossroad, on center of W. head wall of concrete culvert; chiseled square

5. FROM MOBERLY QUADRANGLE EAST ALONG U.S. HIGHWAY 24 TO PARIS (by Cornish Beck in 1936) **

(Holliday triangulation sta.; U.S.C. & G.S. standard disk stamped "Hollidayazi 1934" 805.44


T. 54 N., R. 11 W., in sec. 9, 25 ft. S. and 75 ft. E. from junction of rd. S., on head wall of culvert; chiseled square

Holliday, 0.9 mi. S. of, 11 ft. N. and 90 ft. E. from junction of County Route A, on NW. wing wall of bridge; chiseled square

Holliday, 0.9 mi. S. and about 0.2 mi. E. from, 20 ft. S. and 16 ft. E. from junction of rd. S., on head wall of culvert; chiseled square

U.S.C. & G.S. standard disk stamped "U 123 1935" 793.981

Holliday, 1 mi. S. and 1.5 mi. E. from, in NE 1/4 sec. 11, T. 54 N., R. 11 W., NE. head wall of concrete culvert; chiseled square

T. 54 N., R. 11 W., near E. sixteenth cor. sec. 12 and 13, 25 ft. N. and 12 ft. W. from crossroad, on head wall of culvert; chiseled square

T. 54 N., R. 11 W., E. sixteenth cor. between secs. 7 and 18, 24 ft. S. and 16 ft. E. from crossroad, on head wall of culvert; chiseled square

U.S.C. & G.S. standard disk stamped "U 123 1935" 793.981


T. 54 N., R. 11 W., in sec. 9, 25 ft. S. and 75 ft. E. from junction of rd. S., on head wall of culvert; chiseled square

Holliday, 0.9 mi. S. of, 11 ft. N. and 90 ft. E. from junction of County Route A, on NW. wing wall of bridge; chiseled square

Holliday, 0.9 mi. S. and about 0.2 mi. E. from, 20 ft. S. and 16 ft. E. from junction of rd. S., on head wall of culvert; chiseled square

U.S.C. & G.S. standard disk stamped "U 123 1935" 793.981

Holliday, 1 mi. S. and 1.5 mi. E. from, in NE 1/4 sec. 11, T. 54 N., R. 11 W., NE. head wall of concrete culvert; chiseled square

T. 54 N., R. 11 W., near E. sixteenth cor. sec. 12 and 13, 25 ft. N. and 12 ft. W. from crossroad, on head wall of culvert; chiseled square

T. 54 N., R. 11 W., E. sixteenth cor. between secs. 7 and 18, 24 ft. S. and 16 ft. E. from crossroad, on head wall of culvert; chiseled square

U.S.C. & G.S. standard disk stamped "U 123 1935" 793.981
SPIRIT LEVELING IN MISSOURI


T. 5k N., R. 10 W., near line between secs. 15 and 16, 35 ft. N. and 16 ft. E. from junction of rd. N., in telephone pole; nail

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey second-order line, Hannibal to Salisbury.

CENTRALIA QUADRANGLE
(Latitude 39°00'-39°15'; longitude 92°00'-92°15')
Audrain, Boone, and Callaway Counties

1. FROM STURGEON QUADRANGLE AT SEC. 27, T. 50 N., R. 12 W., EAST TO WABASH RY., THENCE SOUTHWEST ALONG WABASH RY. INTO STURGEON QUADRANGLE (by D. V. Vandiver in 1905 and P. W. McMullen and E. C. Steel in 1912)
(Continued from Sturgeon quadrangle; see line 1.)

Browns, 2.7 mi. N. of, 100 ft. SW. of Wabash Ry. at rd. crossing, in root of 12-in. thorn locust tree; copper nail
(Continued in Sturgeon quadrangle; see line 1.)

2. FROM MILLERSBURG QUADRANGLE AT SEC. 26, T. 59 N., R. 10 W., NORTH ALONG ROADS AND COUNTY ROUTE E TO SEC. 3k, T. 52 N., R. 10 W., THENCE WEST ALONG ROADS AND STATE HIGHWAY 22 INTO STURGEON QUADRANGLE AT SEC. 3k, T. 52 N., R. 12 W., INCLUDING THAT PART OF THE LINE IN MEXICO QUADRANGLE (by W. R. Broadus in 1927)
(Continued from Millersburg quadrangle; see line 1.)

Auxvasse, 1 mi. S. and 6 mi. W. from, SW 1/4 sec. 23, T. 59 N., R. 10 W., 55 ft. NE. of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 9 M 1926" (elev. doubtful)
T. 59 N., R. 10 W., in SW 1/4 sec. 23, NE. of T-rd. E., in root of 20-in. elm tree; nail and washer
Auxvasse Creek, on top of E. end of concrete abutment of bridge; chiseled square
Auxvasse Creek, under bridge; surface of water April 15, 1927
Plint School, 0.2 mi. NE. of, near W. sixteenth cor. sec. 24, T. 59 N., R. 10 W., 10 ft. W. of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 9 M 1926"
T. 59 N., R. 10 W., in SW 1/4 sec. 35, in root on E. side of 18-in. red-oak tree; copper nail and washer

*Line 2 of Mexico quadrangle includes a portion of this line (see Bull. 898-C, p. 435).

Reference mark, 11 ft. 3 ft. S. and 11 ft. W. from crossroads (N.-S. rd. now County Route E), in concrete post; standard tablet stamped "T T Sta No. 11 M 1926"

Reference mark, 11 ft. 4 ft. S. and 11 ft. W. from crossroads (E.-W. rd. now County Route E), in concrete post; standard tablet stamped "T T Sta No. 12 M 1926" (as reset)

Reference mark, 11 ft. 3 ft. S. and 11 ft. W. from crossroads (N.-S. rd. now County Route E), in concrete post; standard tablet stamped "T T Sta No. 13 M 1926" (as reset)
Centralla, 2 mi. N. and 3.5 mi. W. from cor. Tps. 51 and 52 N., R. 11 and 12 W., 18 ft. S. and 65 ft. E. from T-rd. N. (E.-W. rd. now State Highway 22), in root on N. side of 12-in. maple tree; copper nail and washer 894.4

T. 51 N., R. 12 W., in NE 1/4 sec. 2, 550 ft. W. of farmhouse of J. L. Palmer, on top of S. head wall of concrete culvert; chiseled square 885.6

Sturgeon, 1 mi. N. and 2.2 mi. E. from, along State Highway 22, 0.2 mi. W. of Alton R.R. crossing, 68 ft. S. and 65 ft. W. from junction of rd. N., in concrete post; standard tablet stamped “1825 E R A 1935” 895.7

Reference mark, S. of tablet, in root on N. side of 20-in. hedge tree; copper nail and washer 850.766

(Continued in Sturgeon quadrangle; see line 6.)


Skinner, 1.5 mi. S. and 1.2 mi. W. from, near E. sixteenth cor. sec. 34, T. 52 N., R. 10 W., 27 ft. N. and 95 ft. E. from rd. corner E.-S., at E. end of picket fence, in root on S. side of 27-in. tree; copper nail and washer 895.31


(Continued from Millersburg quadrangle; see line 3.)

T. 49 N., R. 10 W., E. sixteenth cor. between secs. 21 and 28, SW. of T-rd. W., in root of 36-in. oak tree; copper nail 895.0

T. 49 N., R. 10 W., S. sixteenth cor. between secs. 19 and 20, 150 ft. S. of T-rd. E., in root of wild-cherry tree; nail 895.1

Hereford, 1 mi. N. of, near cor. secs. 19, 20, 29, and 30, T. 49 N., R. 10 W., on S. head wall of concrete culvert; chiseled square 895.2

Hereford, 0.8 mi. N. of, 60 ft. S. of cor. secs. 19, 20, 29, and 30. T. 49 N., R. 10 W., on S. head wall of concrete culvert; chiseled square 895.8

Stephens, 2 mi. N. and 1 mi. E. from, near cor. secs. 23, 24, 25, and 26, T. 49 N., R. 11 W., on E.-W. rd., on S. head wall of culvert; chiseled square 895.8

Stephens, 2 mi. N. and 0.5 mi. W. from, near corner cor. between secs. 22 and 27, T. 49 N., R. 11 W., on bridge over Cedar Creek, in center of N. end of floor; copper nail 895.15

Shaw, 2 mi. N. and 1.5 mi. E. from, cor. secs. 20, 21, 28, and 29, T. 49 N., R. 11 W., on S. railing of bridge over small branch; painted square 895.7

Shaw, 2 mi. N. and 1 mi. E. from, W. sixteenth cor. between secs. 20 and 29, T. 49 N., R. 11 W., S. of T-rd. N., in root of 30-in. oak tree; copper nail 885.36

Columbia, 3 mi. N. and 7 mi. E. from, near cor. between secs. 23 and 26, T. 49 N., R. 11 W., in front of farmhouse, 4 ft. S. and 33 ft. E. from rd. corner N.-W., 50 ft. SW. of 20-in. box-elder tree, in concrete post; standard tablet stamped “T 5 V C W A 1934” 895.382

Reference mark, 30 ft. NE. of tablet, in root of 20-in. box-elder tree; copper nail 893.23


Reference mark, 70 ft. N. of tablet, in root of walnut tree; copper nail 882.346

(Continued from MEXICO QUADRANGLE; see line 6.)
PART 7, CENTRAL MISSOURI, 1896-1938

5. FROM STURGEON QUADRANGLE EAST ALONG COUNTY ROUTES B AND D (now State Highway 124) BY WAY OF HALLSVILLE TO SEC. 10, T. 50 N., R. 11 W., THENCE SOUTH ALONG ROADS TO SEC. 25, T. 49 N., R. 11 W. (by O. D. Williams in 1934)

(Continued from Sturgeon quadrangle; see lines 10.)

Hallsiville, 0.2 mi. W. of, T. 50 N., R. 11 W., 27 ft. S. of highway, 14 ft. S. of corner fence post, in concrete post; railroad ties. 896.189


Hallsiville, 0.8 mi. NE. of, 3 mi. S. of, S. sixteen cor. between secs. 12 and 13, T. 50 N., R. 12 W., in corner fence post; nail 911.16


Hallsiville, 1.5 mi. NE. of, SW 1/4 sec. 7, T. 50 N., R. 11 W., 120 ft. N. of, NE. face of farmhouse on property of Ben Tate, 30 ft. N. of highway, in concrete post; U.S.C. & G.S. and State Survey standard tablet 896.309

Hallsiville, 4 mi. E. of, in SW 1/4 sec. 7, T. 50 N., R. 11 W., in SE 1/4 sec. 17, in front of farmhouse, in root of 12-in. cedar tree; nail 899.59


T. 50 N., R. 11 W., in SW 1/4 sec. 10, 19 ft. N. of highway, in root of 24-in. elm tree (mark not described) 914.53

T. 50 N., R. 11 W., in NW 1/4 sec. 15, 100 ft. S. of rd., in 22-in. apple tree; nail 914.53


T. 50 N., R. 11 W., quarter cor. between secs. 14, 20 ft. E. of N.-S. rd., at end of hedge fence N., in root of hedge tree; nail 920.79


T. 50 N., R. 11 W., about 0.1 mi. S. of center sec. 23, 74 ft. NE. of NE. corner of dwelling, 108 ft. SE. of NE. corner of barn, 20 ft. W. of rd., in concrete post; standard tablet 900.49

T. 50 N., R. 11 W., quarter cor. between secs. 23 and 26, 20 ft. W. of rd., in root of stump; nail 901.30

T. 50 N., R. 11 W., quarter cor. between secs. 26 and 35, NW of T-rd. W., in root of 12-in. hedge tree; nail 924.29

T. 50 N., R. 11 W., center sec. 35, 27 ft. S. and 120 ft. E. from T-rd. N., 60 ft. NE. of SE. corner of barn, in concrete post; standard tablet 919.408

T. 49 N., R. 11 W., in NW 1/4 sec. 2, near Hickory Grove School, on property of Mrs. W. A. Keyser, 177 ft. E. of rd., 29 ft. N. of corner of dwelling of Clyde Chrismen, 26 ft. SW. of SW. corner of summer kitchen, in concrete post; standard tablet 905.825

T. 49 N., R. 11 W., in NW 1/4 sec. 2, in root of 30-in. black-oak tree; nail 853.38

T. 49 N., R. 11 W., sixteenth cor. between secs. 2 and 11, 150 ft. S. of SE. corner of concrete storm cellar, 65 ft. W. of rd., in concrete post; standard tablet 899.268

Wade School, 37 ft. SE. of SE. corner of, N. sixteen cor. sec. 11. 918.47

T. 49 N., R. 11 W., 1/2 mi. S. of, in NW 1/4 sec. 11, 69 ft. NW. of NW. corner of farmhouse of M. B. Rogers, 220 ft. W. of N.-S. rd., in concrete post; standard tablet 918.909


Stephens, 2.5 mi. N. of, near center sec. 23, T. 49 N., R. 11 W., W. of rd., in root of 24-in. oak tree; nail 884.45

6. FROM SEC. 10, T. 50 N., R. 11 W., NORTH ALONG COUNTY ROUTE B (now State Highway 124) TO CENTRALIA, THENCE NORTH ABOUT 1 MILE (by O. D. Williams in 1934)

Hallsiville, 1/4 mi. E. of, near quarter cor. between secs. 10 and 15, T. 50 N., R. 11 W., SE. of junction of rd. N. and on N. edge of iron pipe culvert; painted square 898.83

Centralia, 1/4 mi. S. of, in NW 1/4 sec. 5, T. 50 N., R. 11 W., SW. of W. end of iron pipe culvert; painted square 892.92

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centralla</td>
<td>2.5 mi. S. of, N. sixteenth cor. sec. 3/4, T. 51 N., R. 11 W., 26 ft. S. and 30 ft. W. from junction of rd. W., in concrete post; standard tablet stamped &quot;C W A 1931&quot; (Continued from Millersburg quadrangle; see line 7.)</td>
</tr>
<tr>
<td></td>
<td>Reference mark, 300 ft. N. of tablet, on top of S. end of iron pipe culvert; painted square</td>
</tr>
<tr>
<td>Centralla</td>
<td>1.8 mi. S. of, near N. sixteenth cor. sec. 27, T. 51 N., R. 11 W., 28 ft. E. of highway, in telephone pole; nail</td>
</tr>
<tr>
<td></td>
<td>Centralla, 0.5 mi. S. of, center sec. 22, T. 51 N., R. 11 W., on S. end of W. head wall of culvert; chiseled square</td>
</tr>
<tr>
<td></td>
<td>Centralla, 20 ft. S. and 23 ft. W. from State Highway 22 (East Switzer Street) at North Jefferson Street, in E. end of N. abutment of concrete culvert; standard tablet stamped &quot;C W A 1931&quot;</td>
</tr>
<tr>
<td></td>
<td>Reference mark, 75 ft. S. of Alton R.R. track, E. of North Jefferson Street, on W. side of concrete sidewalk; chiseled square</td>
</tr>
<tr>
<td>Centralla</td>
<td>0.9 mi. N. of, S. sixteenth cor. sec. 3, T. 51 N., R. 11 W., W. of rd., in telephone pole; nail</td>
</tr>
<tr>
<td></td>
<td>7. FROM SEC. 12, T. 50 N., R. 11 W., EAST TO SEC. 3/4, T. 51 N., R. 10 W. (by O. D. Williams in 1934)</td>
</tr>
<tr>
<td></td>
<td>T. 50 N., R. 11 W., on line between secs. 12 and 13, 1,200 ft. W. of Audrain-Boone county line, on W. end of concrete culvert; chiseled square</td>
</tr>
<tr>
<td></td>
<td>T. 50 N., R. 10 W., quarter cor. between secs. 7 and 12, in top of fence post; nail</td>
</tr>
<tr>
<td></td>
<td>T. 50 N., R. 10 W., in NE 1/4 sec. 7, in NE. corner of yard of J. O. Sims, 30 ft. S. of rd., in concrete post; standard tablet</td>
</tr>
<tr>
<td></td>
<td>T. 50 N., R. 10 W., center sec. 8, 20 ft. SW. of stone, in stump; nail</td>
</tr>
<tr>
<td></td>
<td>T. 50 N., R. 10 W., quarter cor. between secs. 4 and 9, in top of fence post; nail</td>
</tr>
<tr>
<td></td>
<td>T. 50 N., R. 10 W., 75 ft. W. of S. sixteenth cor. sec. 3, on step; chiseled square</td>
</tr>
<tr>
<td></td>
<td>T. 50 N., R. 10 W., S. sixteenth cor. between secs. 2 and 3, NE. of T-rd. N., on E. head wall of concrete culvert; chiseled square</td>
</tr>
<tr>
<td></td>
<td>8. FROM MILLERSBURG QUADRANGLE AT SEC. 26, T. 49 N., R. 11 W., NORTH ABOUT 1 MILE (by W. V. Kennedy in 1937)</td>
</tr>
<tr>
<td></td>
<td>(Continued from Millersburg quadrangle; see line 7.)</td>
</tr>
<tr>
<td>Stephens</td>
<td>2 mi. N. and 0.5 mi. W. from, W. sixteenth cor. between secs. 23 and 26, T. 49 N., R. 11 W., SW. of crossroads, 1 ft. E. of SE. corner of Oak Chapel, on concrete platform; chiseled square</td>
</tr>
<tr>
<td></td>
<td>TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE NEAR THOMPSON (by B. A. Barnes in 1935)</td>
</tr>
<tr>
<td></td>
<td>T. 51 N., R. 10 W., W 50 ft. S. of cor. secs. 22, 23, 26, and 27, 100 ft. N. and 45 ft. E. from dim rd. crossing Davis Creek, in bench on W. side of leaning 18-in. maple tree; copper nail and washer</td>
</tr>
<tr>
<td></td>
<td>U.S.G.S. A 0.8. standard disk stamped &quot;M 125 1935&quot;</td>
</tr>
<tr>
<td></td>
<td>T. 51 N., R. 10 W., on line between secs. 22 and 23, Wabash Ry. at rd. crossing; top of S. rail</td>
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<tr>
<td></td>
<td>T. 51 N., R. 10 W., on line between secs. 22 and 23, Alton R.R. at rd. crossing; top of S. rail</td>
</tr>
<tr>
<td></td>
<td>T. 51 N., R. 10 W., cor. secs. 15, 16, 22, and 23, 5 ft. S. and 65 ft. E. (55 ft. W. 7) from crossroads (N.-S. rd. now County Route E), in concrete post; standard tablet stamped &quot;T Sta No 13 M 1926&quot; (as reset)</td>
</tr>
</tbody>
</table>

For additional level lines along Wabash Ry., refer to United States Coast and Geodetic Survey second-order lines, Hurdland to St. Charles and Lupus to Centralla.
PART 7, CENTRAL MISSOURI, 1896-1938

MILLERSBURG QUADRANGLE

1. FROM NEW BLOOMFIELD QUADRANGLE AT SEC. 24, T. 16 N., R. 10 W., NORTH INTO CENTRALIA QUADRANGLE AT SEC. 26, T. 19 N., R. 10 W., INCLUDING THAT PART OF THE LINE IN FULTON QUADRANGLE (by W. R. Broaddus in 1927)*

(Continued from New Bloomfield quadrangle; see line 1.)

Dixie, 3 mi. N. of, in W 1/2 sec. 13, T. 16 N., R. 10 W., 85 ft. S. of Middle Creek, 20 ft. N. and 10 ft. E. from rd. fork E., in concrete post; standard tablet stamped "T T Sta No 3 M 1926"

667.885

Reference mark, 85 ft. N. 76° W. of tablet; S. of rd., in root on N. side of 30-in. white-oak tree; copper nail and washer

667.79

Middle Creek ford; surface of water at 1 p.m. March 29, 1927

789.33

T. 16 N., R. 10 W., near S. sixteenth cor. sec. 12, 90 ft. S. and 100 ft. W. from rd. forks, in root on SE. side of 15-in. walnut tree; copper nail and washer

789.33

Dixie, 3 ml. N. of, In W 1/2 sec. 13, T. 16 N., R. 10 W., 85 ft. S. of Feet Middle Creek, 20 ft. N. and 10 ft. E. from rd.; fork E., In concrete post; standard tablet stamped "T T Sta No 3 M 1926"

809.34

Reference mark, 181 ft. N. of Tablet, In root on W. side of 20-in. elm tree; copper nail and washer

861.238

Fulton, 3.6 mi. SW. of, along U.S. Highway 54, near center of S 1/2 sec. 36, T. 17 N., R. 10 W., 165 ft. N. and 25 ft. E. from crossroad, in SW. corner of yard of Twin Church, in concrete post; standard tablet stamped "T T Sta No 4 M 1926"

863.17

Reference mark, 181 ft. N. of Tablet, In root on W. side of 20-in. maple tree; copper nail and washer

863.17

T. 17 N., R. 10 W., near center sec. 26, 135 ft. NW. of crossroads, 1 ft. from front of Middle Fork School, on E. edge of concrete walk; chiseled square

827.60

T. 17 N., R. 10 W., near center sec. 26, 135 ft. NW. of crossroads, 1 ft. from front of Middle Fork School, on E. edge of concrete walk; chiseled square

827.60

Reference mark, 140 ft. S. 5° W. of tablet, on top of W. head wall of concrete culvert; chiseled square

847.72

T. 17 N., R. 10 W., near center sec. 26, 135 ft. NW. of crossroads, 1 ft. from front of Middle Fork School, on E. edge of concrete walk; chiseled square

847.72

T. 17 N., R. 10 W., near center sec. 11, near Central Church, 80 ft. N. and 15 ft. E. from crossroad, on top of E. head wall of concrete culvert; chiseled square

852.65

T. 17 N., R. 10 W., center sec. 2, 5 ft. S. and 25 ft. W. from T-rd. E., 1 mi. N. of Central School, 2 ft. N. and 8 ft. W. from corner fence post, in concrete post; standard tablet stamped "T T Sta No 5 M 1926"

881.412

Reference mark, 24 ft. N. 85° E. of tablet, in root on NW. side of 24-in. oak tree; copper nail and washer

879.76

Stinson Creek ford; surface of water at 8 a.m. April 6, 1927

789.5

T. 17 N., R. 10 W., near center of NE 1/4 sec. 35, 75 ft. S. and 40 ft. E. from T-rd. R., in root on W. side of 16-in. white-oak tree; copper nail and washer

860.00

T. 17 N., R. 10 W., quarter cor. between sec 25 and 36, 50 ft. N. and 1 ft. W. from T-rd. R., on top of W. head wall of concrete culvert; chiseled square

886.94

*Tlines 1 and 2 of Fulton quadrangle includes a portion of this line (see Bull. 898-C, pp. 430-431).

McBreedy, 2.5 ml. W. from quarter cor. between secs. 13 and 24, T. 14.8 N., R. 10 W., 28 ft. N. and 20 ft. W. from crossroads, in SE. corner of yard of Christian Church, in concrete post; standard tablet stamped "T Sta No 8 M 1926".

Reference mark, 30 ft. N. of tablet, in root on E. side of 30-in. white-oak tree; copper nail and washer.


Reference mark, 95 ft. S. of tablet, in root on N. side of 14-in. elm tree; copper nail and washer.

T. 14.8 N., R. 10 W., in NW 1/4 sec. 2, at Vivion School, NE. of T-rd. N., on top of E. head wall of concrete culvert; chiseled square.

T. 14.9 N., R. 10 W., sixteenth cor. sec. 35, on top of W. end of S. abutment of small bridge over drain; chiseled square.


(Continued in Centralia quadrangle; see line 2.)

2. FROM LUPUS QUADRANGLE NORTH ALONG U.S. HIGHWAY 63 INTO LUPUS QUADRANGLE (by L. V. Johnson in 1930)

(Continued from Lupus quadrangle; see line 1.)

Ashland, 3.4 ml. N. of, at SE. corner of bridge over Bass Creek, on concrete abutment; chiseled square.


T. 14.9 N., R. 10 W., near center sec. 27, on S. end of concrete culvert; chiseled square.


(Continued in Centralia quadrangle; see line 1.)


T. 14.9 N., R. 10 W., near quarter cor. between secs. 2 and 3, 200 ft. N. of ford across Hominy Branch, 100 ft. W. of rd., in root of 60-in. elm tree; copper nail and washer.

T. 14.9 N., R. 12 W., near quarter cor. between secs. 34 and 35, SW. of T-rd., on concrete foundation of fence corner; chiseled square.

T. 14.9 N., R. 12 W., N. of S. cor. secs. 26 and 27, near rd. across branch, N. of rd. at curve to E., in root of 48-in. oak tree; copper nail and washer.

(Continued in Lupus quadrangle; see line 1.)


(Continued from Lupus quadrangle; see line 1.)

T. 14.8 N., R. 12 W., near quarter cor. between secs. 2 and 3, 200 ft. N. of ford across Hominy Branch, 100 ft. W. of rd., in root of 60-in. elm tree; copper nail and washer.

T. 14.8 N., R. 12 W., N. of S. cor. secs. 26 and 27, near rd. across branch, N. of rd. at curve to E., in root of 48-in. oak tree; copper nail and washer.

(Continued in Lupus quadrangle; see line 5.)
<table>
<thead>
<tr>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>10</td>
<td>T. 14.8 N., R. 11 W., about 0.2 mi. S. of, at Junction of County Route J, on center of N. head wall of concrete culvert under Highway J; chiseled square.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>T. 14.8 N., R. 10 W., in NW 1/4 sec. 10, on NE. corner of bridge over Middle River; chiseled cross.</td>
<td></td>
<td></td>
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<tr>
<td>10</td>
<td>T. 14.8 N., R. 10 W., about 0.1 mi. S. of, on SE. end of W. head wall of concrete culvert under Highway J; chiseled square.</td>
<td></td>
<td></td>
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<tr>
<td>10</td>
<td>T. 14.8 N., R. 10 W., 2.5 mi. SE. of, on NE. corner of doorway of White Cloud Church; chiseled square.</td>
<td></td>
<td></td>
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<tr>
<td>10</td>
<td>T. 14.8 N., R. 10 W., 70 ft. N. and 30 ft. E. from Junction of rd. S., on S. end of iron pipe culvert; painted square.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Millersburg, 1.8 mi. N. of, 27 ft. W. of highway, in root on E. side of 30-in. elm tree; copper nail and washer


T. 14.8 N., R. 11 W., in SW 1/4 sec. 12, 15 ft. N. and 20 ft. E. from junction of rd. W., on W. end of concrete head wall of culvert; chiseled square

T. 14.8 N., R. 11 W., near W. sixteenth cor. sec. 12, at Truitt School, on SE. corner of concrete platform of well; chiseled square

T. 14.8 N., R. 11 W., in SW 1/4 sec. 11, 3.8 mi. N. of Millersburg, about 0.3 mi. S. of junction of U.S. Highway 40, 58 ft. W. of NW. corner of airway beacon tower 13, 30 ft. E. of highway, in concrete post; standard tablet stamped "4 C W A 1934"

T. 14.8 N., R. 11 W., near W. sixteenth cor. sec. 11, 25 ft. S. and 27 ft. E. from junction of U.S. Highway 40, on E. head wall of concrete wall; chiseled square

Bridge over Manasota Creek, at SW. corner of, on concrete wing wall; chiseled square

Stephens, at NE. corner of entrance to post office and general store; chiseled square

Stephens, 1.1 mi. N. of, in SW. cor. sec. 26, T. 14.9 N., R. 11 W., 14 ft. N. and 25 ft. E. from T-rd. E., on base of brace post to concrete fence post; chiseled square

T. 14.6 N., R. 11 W., near W. sixteenth cor. between secs. 26 and 27, 1.5 mi. N. of Stephens, on SE. corner of Allen Cemetery, 13 ft. NW. of rd., in top of concrete retaining wall; standard tablet stamped "3 C W A 1934"

T. 14.6 N., R. 11 W., near W. sixteenth cor. between secs. 16 and 21, at Boone-Calloway county line, on concrete abutment at NW. corner of bridge over Cedar Creek; chiseled square

T. 14.6 N., R. 11 W., near W. sixteenth cor. between secs. 16 and 21, 300 ft. W. of bridge over Cedar Creek, 100 ft. SE. of farmhouse of S. E. Hudson, 30 ft. N. of rd., in farmyard, 2 ft. E. of wooden fence, in concrete post; standard tablet stamped "3 K 1937"

Bridge over Conner Creek, at SW. corner of, on concrete wing wall; chiseled square

T. 14.6 N., R. 11 W., near S. sixteenth cor. between secs. 17 and 18, 55 ft. N. and 18 ft. E. from T-rd. E., 150 ft. S. of rd. corner from S.-W., in root on W. side of 30-in. white-oak tree; copper nail and washer

T. 14.6 N., R. 11 W., in SW 1/4 sec. 18, 110 ft. W. of SE. cor. sec. 17, 18 ft. E. of T-rd. E., in concrete post; standard tablet stamped "5 C W A 1934"

Northwest Fork, 50 ft. NW. of, in bottom of deep drain, in root on SE. side of twin 10-in. white-oak tree; crossed nails

T. 14.6 N., R. 12 W., cor. secs. 11, 12, 13, and 14, 1.5 mi. E. of U.S. Highway 63 at Ashland, SE. of crossings, 20 ft. NE. of farmhouse of Otis Calvin, in root on NW. side of 30-in. maple tree; copper nail and washer

For an additional level line along U.S. Highway 54, refer to United States Coast and Geodetic Survey second-order line, Mexico to Eldon.
1. FROM JEFFERSON CITY NORTH TO NORTH JEFFERSON, THENCE NORTHEAST ALONG ALTON R.R. (now abandoned) TO NEW BLOOMFIELD, THENCE NORTHEAST ALONG U.S. HIGHWAY 54 (formerly State Highway 15) TO SEC. 21, T. 46 N., R. 10 W., THENCE NORTHEAST ALONG ROADS INTO MILLERSBURG QUADRANGLE AT SEC. 24, T. 46 N., R. 10 W. (by W. R. Broaddus in 1927)

U.S.G.S. (city b.m.)

Jefferson City, at S. entrance of Public Service Building (old post office building), in vertical face of pillar; standard tablet stamped "1 D 1927" 636.403

Jefferson City, at W. side of Capitol Building, 48 ft. E. of walk leading N. from steps, 1 ft. from building face, 1 ft. above sidewalk, in bench; standard tablet stamped "2 D 1927" 642.603

Jefferson City, at SE corner of wall around fountain pool; chiseled square

Jefferson City, 45 ft. E. of bridge over Missouri River, N. of Missouri Pacific R.R. track, on top of concrete wall at end of tile culvert; chiseled square

Jefferson City, on E. pier at N. end of bridge over Missouri River; chiseled square

Jefferson City, 0.4 mi. N. of N. end of bridge over Missouri River, at junction of U.S. Highway 54 (formerly State Highway 15) and U.S. Highway 65, on top of W. head wall of concrete culvert under Highway 54; chiseled square


Reference mark, 280 ft. SE. of tablet, on top of NE. head wall of concrete culvert; chiseled square

Jefferson City, 3.1 mi. N. of, 1.1 mi. NE. of North Jefferson, 0.2 mi. W. of rock cut, 50 ft. N. of R.R., 12 ft. N. of fence corner, in root on N. side of 24-in. cottonwood tree; spike

Jefferson City, 4.3 mi. N. of, 0.5 mi. NE. of high trestle, 0.5 mi. S. of milepost Mex 143, in middle of third rock cut from trestle, 8 ft. E. of R.R., 1 ft. above rail, on top of limestone ledge; chiseled square

Hibernia sta., 0.5 mi. S. of, in SE 1/4 SW 1/4 sec. 25, T. 45 N., R. 11 W., 50 ft. W. of R.R., 28 ft. N. of rd., in concrete post; standard tablet stamped "4 B 1927" 832.897

Reference mark 1, 28 ft. W. of tablet, in root on S. side of 15-in. elm tree; copper nail and washer

Reference mark 2, 171 ft. E. of tablet, in root on W. side of 30-in. elm tree; copper nail and washer

Reference mark 3, 15 ft. E. of tablet, in root on W. side of 30-in. maple tree; copper nail and washer

Hibernia sta., 0.6 mi. S. of, 150 ft. N. of rd. crossing, on top of E. end of rock culvert under R.R.; chiseled square

T. 45 N., R. 11 W., in SE 1/4 sec. 13, at curve at end of long tangent where R.R. leaves highway, on top of center of N. stone at W. end of stone culvert; chiseled square


Reference mark, 50 ft. S. and 60 ft. W. from tablet, on top of E. end of tile culvert; chiseled square

New Bloomfield, 1 mi. S. of, 160 ft. S. of R.R. at rd. crossing, on top of W. head wall of concrete culvert; chiseled square

New Bloomfield, 53 ft. W. of Main Street, 22 ft. E. of R.R., in concrete post; standard tablet stamped "6 B 1927"

Reference mark, 159 ft. S. 60° W. of tablet, 1 ft. S. of NE. corner of cemetery, on wall; chiseled square

New Bloomfield, S. entrance of public school, on top of E. end of first step; chiseled square

T. 45 N., R. 10 W., in SE 1/4 sec. 29, 0.2 ml. NE. of King Cemetery, on top of S. head wall of concrete culvert; chiseled square

T. 45 N., R. 10 W., near quarter cor. between sec. 21 and 28, 50 ft. W. of R.R. at rd. crossing; on top of W. head wall of concrete culvert; chiseled square

Reference mark, 450 ft. NW. of tablet, at NE. corner of bridge, on top of guard wall; chiseled square

T. 45 N., R. 10 W., 0.2 ml. N. of quarter cor. between sec. 22 and 27, NE. of T-rd. S., on top of E. head wall of concrete culvert; chiseled square

North Jefferson, 0.5 mi. NW. of, on concrete abutment at SW. corner of bridge over Turkey Creek; chiseled square

North Jefferson, 1.5 mi. NW. of, 0.5 mi. NW. of point where transmission line crosses R.R., 300 ft. W. of farmhouse, 100 ft. NW. of private rd. crossing, on E. end of N. concrete head wall of culvert; chiseled square

North Jefferson, 1.6 mi. NW. of, 600 ft. SE. of milepost 45.5, S. of R.R., on NW. corner of concrete base of semaphore; chiseled square

North Jefferson, 2.3 mi. NW. of, at NW. corner of highway bridge over R.R., on top of concrete abutment; chiseled square

Junction of U.S. Highways 54 and 63, 5.8 mi. NW. of, 50 ft. N. and 15 ft. W. from crossroad, 7 ft. N. of corner fence post, in concrete post; standard tablet stamped "9 K 1937"

Reference mark, 1.0 ft. N. and 20 ft. W. from crossroad, on W. end of concrete culvert; chiseled square

Bridge over Cedar Creek, 0.4 mi. NW. of, at junction of rd. E.; surface of highway

Junction of U.S. Highways 54 and 63, 5.5 mi. NW. of, 0.2 mi. NW. of rd. junction, at filling sta., on SE. corner of concrete base of gasoline pumps; chiseled square

Junction of U.S. Highways 54 and 63, 5.6 mi. NW. of, 0.6 mi. NW. of filling sta., 550 ft. N. of rd. forks, 20 ft. E. of highway, on S. end of E. concrete head wall of culvert over creek; chiseled square

Junction of U.S. Highways 54 and 63, 6.2 mi. NW. of, 50 ft. SW. of farmhouse of R. W. Old, 14.0 ft. NE. of highway, in concrete post; standard tablet stamped "8 K 1937"

Reference mark, 0.1 mi. SE. of tablet, 300 ft. S. of farmhouse, 20 ft. W. of highway, on S. end of W. concrete head wall of culvert; chiseled square

Junction of U.S. Highways 54 and 63, 6.9 mi. NW. of, 430 ft. S. of filling sta., 90 ft. S. and 20 ft. W. from junction of rd. S., on W. head wall of concrete culvert; chiseled square

Junction of U.S. Highways 54 and 63, 7.3 mi. NW. of, 35 ft. SE. of SE. corner of dwelling of P. J. Gilmore, in root on SE. side of 18-in. ash tree; copper nail and washer

(Continued in Centertown quadrangle; see line 1.)

North Jefferson, 3.0 mi. NW. of, on concrete abutment at SW. corner of bridge over Turkey Creek; chiseled square

North Jefferson, 5.5 mi. NW. of, on concrete abutment at SW. corner of bridge over Turkey Creek; chiseled square

Reference mark, 0.4 ml. NW. of, at junction of rd. E.; surface of highway

Junction of U.S. Highways 54 and 63, 5.0 mi. NW. of, 0.2 mi. NW. of rd. junction, at filling sta., on SE. corner of concrete base of gasoline pumps; chiseled square

Junction of U.S. Highways 54 and 63, 5.6 mi. NW. of, 0.6 mi. NW. of filling sta., 550 ft. N. of rd. forks, 20 ft. E. of highway, on S. end of E. concrete head wall of culvert over creek; chiseled square

Junction of U.S. Highways 54 and 63, 6.2 mi. NW. of, 50 ft. SW. of farmhouse of R. W. Old, 14.0 ft. NE. of highway, in concrete post; standard tablet stamped "8 K 1937"

Reference mark, 0.1 mi. SE. of tablet, 300 ft. S. of farmhouse, 20 ft. W. of highway, on S. end of W. concrete head wall of culvert; chiseled square

Junction of U.S. Highways 54 and 63, 7.3 mi. NW. of, 35 ft. SE. of SE. corner of dwelling of P. J. Gilmore, in root on SE. side of 18-in. ash tree; copper nail and washer

(Continued in Centertown quadrangle; see line 1.)
Intersection of West Miller and Washington Streets, at W. corner of, on concrete curb; chiseled square 549.51
Intersection of West Dunklin and Jefferson Streets, at N. corner of, on fire hydrant; arrowhead 580.31
Intersection of East Dunklin and Monroe Streets, at W. corner of, on fire hydrant; arrowhead 605.19
Intersection of East Dunklin and Jackson Streets, at W. corner of, on fire hydrant; arrowhead 612.24
Intersection of East Elm and Marshall Streets, at S. corner of, on northwesternmost point of concrete curb; chiseled square 587.96
Intersection of East McCarty and Marshall Streets, at N. corner of, on fire hydrant; arrowhead 562.15
Intersection of East High and Jackson Streets, at W. corner of, on fire hydrant; arrowhead 604.69
Intersection of East Capitol and Jackson Streets, at W. corner of, on fire hydrant; arrowhead 618.96
Intersection of East Capitol and Jefferson Streets, at S. corner of, on fire hydrant; arrowhead 597.50

IN SOUTHEASTERN SECTION OF CITY
Intersection of Lafayette and East Elm Streets, at E. corner of, on fire hydrant; arrowhead 570.14
Intersection of Chestnut and East Elm Streets, at S. corner of, on concrete curb; chiseled square 621.93
Intersection of Locust and East Elm Streets, at S. corner of, on fire hydrant; arrowhead 593.18
Intersection of East Elm Street and Clarke Boulevard, at E. corner of; on fire hydrant; arrowhead 662.17
Intersection of East McCarty Street and Clarke Boulevard, at S. corner of, on fire hydrant; arrowhead 591.20
Intersection of U.S. Highways 50 and 65 and East High Street, 150 ft. W. of, at SE. corner of guardrails between highways, in top of wooden guardrail; copper nail and washer 573.14
Intersection of Hough and Buchanan Streets, at N. corner of, on top of fire hydrant; bolt 590.64
Intersection of River Lane and Pierce Street, at S. corner of, on top of fire hydrant; bolt 665.25
Intersection of Hough and Folk Streets, at W. corner of, on top of fire hydrant; bolt 682.82
Missouri Pacific R.R. at E. city limits, 55 ft. S. of electric signal box, 25 ft. E. of telephone booth, in wooden base of switch; copper nail and washer 556.06
State Penitentiary, 10 ft. E. of E. corner of, on N. end of concrete retaining wall of highway; chiseled square 557.42
Intersection of East Capitol and Chestnut Streets, at S. corner of, on fire hydrant; arrowhead 615.15
Intersection of East Capitol and Lafayette Streets, at N. corner of, on fire hydrant; arrowhead 555.57

IN CENTRAL NORTHWEST SECTION OF CITY
Intersection of West McCarty and Clay Streets, at E. corner of, on fire hydrant; arrowhead 567.30
Intersection of West McCarty and Brooks Streets, at E. corner of, on fire hydrant; arrowhead 569.63
Intersection of West McCarty and Hamlin Streets, at E. corner of, on fire hydrant; arrowhead 575.20
Intersection of West McCarty and Hart Streets, at E. corner of, on top of fire hydrant; top of bolt 588.29
Intersection of West Main and Hart Streets, at S. corner of, on fire hydrant; arrowhead 689.52
Intersection of West Main and Berry Streets, at E. corner of, on fire hydrant; arrowhead 634.38
Intersection of West Main and Pulkerson Streets, at E. corner of, on westernmost point of concrete curb; chiseled square 625.54
Intersection of West Main and Bolivar Streets, at S. corner of, on fire hydrant; arrowhead 597.62

IN NORTHEAST AND WEST SECTION OF CITY
Intersection of West Main and Manilla Streets, at E. corner of, on fire hydrant; arrowhead 651.97
Intersection of West Main Street and Ware Avenue, at NW. corner of, on fire hydrant; arrowhead 654.85
Intersection of West Main and Jordan Streets, at SW. corner of, 5 ft. SE. of transmission-line pole, on concrete curb; chiseled square 665.38
Junction of West Main Street and rd. to Forest Hill Addition, 25 ft. N. of 2 ft. SE. of telephone pole, 3 ft. W. of W. edge of sidewalk, on concrete head wall of culvert; chiseled square 699.51
West Main Street at city limits, 720 ft. E. of, 50 ft. SW. of filling sta. pump, 25 ft. S. of rd., in root on E. side of 18-in. cedar tree; copper nail and washer 706.10
Bagwell Branch of Missouri Pacific R.R. at W. city limits, 0.3 mi. S. of, 500 ft. of fork in creek, 15 ft. W. of transmission-line pole, in SW. corner of fence S., on top of concrete block; chiseled square 609.60
SPIRIT LEVELING IN MISSOURI

U.S. Highway 50 at private rd. S., 52 (ft.) ft. N. and 16 ft. E. from, E. of junction of highway and St. Mary's Boulevard, 16 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 1 L 1931"

Reference mark, 0.2 mi. E. of tablet, 220 ft. E. of city limit line, 300 ft. SW. of brick farmhouse, S. of rd., on W. end of concrete head wall of culvert; chiseled square

Feet

875.167

684.58

621.28

584.12

575.68

563.50

563.37

559.99

637.20

613.12

FROM U.S. HIGHWAY 50 NORTH TO BAGNELL BRANCH OF MISSOURI PACIFIC RAILROAD

Junction of St. Mary's Boulevard and Beck Street, SW. of, 1 ft. NW. of telephone pole on rock head wall of culvert; chiseled square

Missouri Pacific R.R. near NW. city limits, 20 ft. NW. of tracks opposite semaphore 1271-L, W. corner of concrete base of electric signal box 1271-R; chiseled square

Mile

2

IMP NEAR NORTH BOUNDARY OF CITY FROM WEST MAIN STREET NORTHEAST AND SOUTHEAST TO POINT NEAR STATE CAPITOL BUILDING

Junction of Boonville Road and Hayselton Drive, 0.3 mi. NE. of, at edge of bluff, E. of sharp curve in Hayselton Drive, 25 ft. NW. of 12-in. oak tree, 3 ft. E. of 4-in. maple tree, in 4-in. stump; copper nail and washer

729.91

663.31

577.40

559.99
Intersection of Chestnut and East Dunklin Streets, at E. corner of, on fire hydrant; arrowhead
Intersection of East Atchison and Chestnut Streets, at S. corner of, on top of fire hydrant; bolt
Intersection of East Atchison and Chestnut Streets, 800 ft. SW. of, on concrete wall at westernmost corner of McClung swimming pool; chiseled square
Intersection of East Atchison and Chestnut Streets, 0.5 mi. SW. of, at end of pavement on Chestnut Street, N. of creek, on westernmost point of concrete curb; chiseled square
Intersection of Chestnut Street and city limits, at N. corner of, in root on SW. side of lone 10-in. oak tree; copper nail and washer
Intersection of Jackson Street and Russell Avenue, at W. corner of, on S. end of concrete curb; chiseled square

IN SOUTHEASTERN SECTION OF CITY
Intersection of Clarke Boulevard and East Dunklin Street, at S. corner of, on fire hydrant; arrowhead
Intersection of Clarke Boulevard and East Atchison Street, at N. corner of, on top of fire hydrant; bolt
Intersection of Moreau and Oakwood Drives, at N. corner of, on top of fire hydrant; bolt
Intersection of Moreau Drive and Fairmont Boulevard, at S. point of triangle, on concrete curb; chiseled square
Intersection of Moreau Drive and Vineyard Square, at N. corner of, on top of fire hydrant; bolt
Intersection of Moreau Drive and Moreland Avenue, 800 ft. S. of, 50 ft. N. of center of triangle formed by rd. forks, on NE. end of concrete head wall of culvert; chiseled square

4. FROM OSAGE CITY SOUTHWEST TO SCHUBERT, THENCE SOUTHEAST ALONG U.S. HIGHWAYS 50 AND 63 INTO META QUADRANGLE (by L. V. Johnson in 1932)

U.S.C.S. B.W. designated "99"

Osage City, 0.7 mi. S. of, 20 ft. N. and 90 ft. E. from Junction of private rd. E., 85 ft. NE. of mail box of Henry Bolting, in root on W. side of 20-in. oak tree; copper nail and washer
Osage City, 1.7 mi. S. of, 4 ft. NE. of NE. corner of Forest Hill School, on outside edge of concrete walk; chiseled square
Schubert, 1.8 mi. N. of, 40 ft. E. of rd. forks opposite cemetery, on property of Harrison Diedel, inside fence, in concrete post; standard tablet stamped "T T 36 B 1932"
Schubert, 0.9 mi. N. of, 20 ft. W. from rd. fork E., on center of E. concrete head wall of culvert; chiseled square
Schubert, 550 ft. S. of Catholic Church, 75 ft. N. and 15 ft. W. from junction of rd. W., in concrete post; standard tablet stamped "T T 37 B 1932"
Reference mark, 50 ft. E. of tablet, 1/5 ft. SW. of SW. corner of filling sta., 4.5 ft. S. of stop sign, on concrete head wall of culvert; chiseled square
Schubert, 1.1 mi. SE. of, at SW. corner of bridge over Sanford Creek, on concrete foundation of railing; chiseled square

(Continued in Meta quadrangle; see line 1.)

5. FROM CENTERTOWN QUADRANGLE NORTHEAST ALONG U.S. HIGHWAY 54 TO JEFFERSON CITY (by O. F. Hodgdon in 1934)

Reference mark, 8 ft. S. and 36 ft. E. from tablet, on concrete head wall of iron pipe culvert; chiseled square
Jefferson City, 5.7 mi. SW. of, at NW. corner of bridge 0-302 over Neighbors Branch, on top of railing post; chiseled square
Jefferson City, 4.6 mi. SW. of, on top of S. head wall of iron pipe culvert; chiseled square
Jefferson City, 3.6 mi. SW. of, 38 ft. S. of junction of rd. W. (now County Route C) to Russellville, on edge of right-of-way, in concrete post; standard tablet stamped "T 10 L 1931"
Reference mark, 25 ft. S. and 215 ft. W. from tablet, 1/0 ft. S. of filling sta., on S. track of oil draining well; chiseled square
Jefferson City, 2.6 mi. SW. of, about 320 ft. S. of farmhouse of Fred Schuricht, on top of S. concrete head wall of tile pipe culvert; chiseled square
Jefferson City, 1.5 mi. SW. of, on N. end of island for filling sta. pumps; chiseled square
Reference mark, 65 ft. N. and 17 ft. E. from tablet, on SE. corner of island for filling sta. pumps; chiseled square

(Continued from Centertown quadrangle; see line 3.)

(Continued in Meta quadrangle; see line 1.)
6. FROM MOKANE QUADRANGLE AT SEC. 21, T. 44 N., R. 10 W., SOUTHWEST TO OSAGE CITY (by B. A. Barnes in 1936)

Osage triangulation sta.; Missouri River Commission iron post
Osage City, 0.5 mi. E. of, in NW 1/4 sec. 21, T. 44 N., R. 10 W.,
1,400 ft. W. end of bridge over Osage River, on NE. corner of
concrete base of semaphore; (mark not described)
U.S. & G.S. standard disk stamped "P 37 1934"
U.S.C.E. B.M. designated "59"
Copper bolt
Top of cap
U.S.C. & G.S. B.M. designated "XXIV"

7. FROM SCHUBERT SOUTHWEST INTO META QUADRANGLE AT SEC. 1, T. 43 N., R. 11 W. (by P. Y. Brown in 1936)

Schubert, junction of U.S. Highway 50 and rd. S. to Taos, on corner of
concrete retaining wall around store; chiseled square
Gate to farm of Fred Snyder, 320 ft. W. of, 40 ft. S. of rd., 65 ft. W.
of fence line, in root on N. side of 16-in. white-oak tree; crossed
nails
Taos, 0.5 ft. SE. of, 6 ft. NE. of NE. corner of filling sta., on N.
corner of concrete cistern top; chiseled square
Taos, 0.6 mi. SW. of, 15 ft. N. and 25 ft. W. from T-rd. S., at St.
Xavier's Cemetery, in root on N. side of 16-in. white-oak tree; nail
and washer
Farmhouse of John J. Pork, 150 ft. W. of, 15 ft. N. of rd., in root on N.
side of 20-in. white-oak tree; crossed nails

8. FROM SEC. 7, T. 45 N., R. 10 W., NORTH ALONG U.S. HIGHWAY 54 TO NEW BLOOMFIELD (by W. V. Kennedy in 1937)

W. on S. end of iron pipe culvert; painted square
New Bloomfield, 1.5 mi. S. of, 17 ft. N. and 27 ft. E. from junction of
rd. E., on N. head wall of concrete culvert; chiseled square
New Bloomfield, 1 mi. S. of, 10 ft. S. and 27 ft. W. from crossroad, on
S. head wall of concrete culvert; chiseled square


Guthrie, 1.2 mi. W., thence 2.5 mi. S. from, quarter cor. between secs.
35 and 36, T. 46 N., R. 11 W., 39 ft. S. of T-rd. N., on concrete post;
standard tablet stamped "T T 10 C 1930"
N., in root on E. side of 14-in. walnut tree; copper nail and washer
T. 45 N., R. 11 W., in W 1/2 sec. 1, 12 ft. S. and 10 ft. E. from center
of concrete culvert, on N. retaining wall; chiseled square
T. 46 N., R. 11 W., W. sixteenth cor. sec. 16, 110 ft. N. and 50 ft. W.
from T-rd. S., in root on S. side of 20-in. walnut tree; copper nail
and washer

10. FROM SEC. 35, T. 46 N., R. 11 W., WEST INTO CENERTOWN QUAD­
RANGLE AT SEC. 35, T. 46 N., R. 12 W. (by W. V. Kennedy in 1937)

T. 46 N., R. 11 W., in W 1/2 sec. 35, on concrete abutment at SW. corner
of bridge over creek; chiseled square
T. 46 N., R. 11 W., quarter cor. between secs. 34 and 35, 30 ft. N. of
crossroads, on W. head wall of concrete culvert; chiseled square
T. 45 N., R. 11 W., near quarter cor. between secs. 2 and 3, 18 ft. S.
of gate to yard of Forrest Wilson, 20 ft. W. of rd., in concrete post;
standard tablet stamped "T T 11 C 1930"
T. 45 N., R. 11 W., quarter cor. between secs. 3 and 4, 20 ft. S. and
35 ft. W. from T-rd. N., in root on E. side of 18-in. hickory tree;
copper nail and washer
T. 45 N., R. 11 W., in SW 1/4 sec. 4, 8 ft. N. and 280 ft. E. from T-rd.
S., on N. head wall of concrete culvert; chiseled square
T. 45 N., R. 11 W., near center sec. 5, 75 ft. N. and 20 ft. W. from T-rd. E. at farmhouse of T. R. Glennon, in concrete post; standard tablet stamped "W. V. Kennedy in 1937")

Rd. fork, 30 ft. S. of, in root on S. side of 10-in. white-oak tree; crossed nails

T. 45 N., R. 11 W., in NE 1/4 sec. 6, 250 ft. SW. of farmhouse of Joe Lyon, 10 ft. N. of rd., in root on S. side of 25-ft. elm tree; copper nail and washer

T. 45 N., R. 11 W., in NW 1/4 sec. 6, on downstream pier at W. end of bridge over Cedar Creek; bolt head

Rd. fork, 80 ft. N. and 25 ft. E. from, in root on W. side of 40-in. sugar-maple tree; crossed nails

T. 45 N., R. 10 W., quarter cor. between secs. 23 and 214, 10 ft. S. and 20 ft. W. from T-rd. E., on W. end of concrete culvert; chiseled square

T. 45 N., R. 10 W., quarter cor. between secs. 23, 214, 25, 26, 13 ft. S. and 17 ft. E. from T-rd. E., on S. head wall of concrete culvert; chiseled square

T. 45 N., R. 10 W., in NE 1/4 sec. 16, NE. of 16-ft. white-oak tree; copper nail and washer

T. 45 N., R. 10 W., near center sec. 24, ½ mi. S. and 0.1 mi. E. from Dixie, ½ ft. N. and 25 ft. E. from T-rd. E., 41 ft. W. of and in line with SW. corner of farmhouse, in concrete post; standard tablet stamped "T T Sta No 2 M 1926"

T. 45 N., R. 10 W., near center sec. 25, 75 ft. N. and 40 ft. W. from junction of rds. N., NW., and SE., 250 ft. NW. of farmhouse of J. V. Williams, in root on N. side of 20-in. locust tree; copper nail and washer

T-rd. E., ½0 ft. N. and 16 ft. B. from, on S. end of E. head wall of concrete culvert; chiseled square

T. 45 N., R. 10 W., in NW 1/4 sec. 13, 65 ft. N. and 25 ft. W. from T-rd. E., in root of 5-in. oak tree; copper nail and washer

T. 45 N., R. 10 W., near center of SW 1/4 sec. 13, 20 ft. S. and 15 ft. E. from T-rd. W., in root on E. side of 16-in. white-oak tree; copper nail and washer

Dixie, 0.5 mi. S. of, cor. secs. 1, 2, 25, 35, 36, T. 45 N., R. 10 W., 20 ft. S. and 10 ft. W. from T-rd. W., on center of W. head wall of concrete culvert; chiseled square

T. 45 N., R. 10 W., sixteen cor. between secs. 1 and 12, 325 ft. N. and 10 ft. W. from T-rd. E., on W. end of concrete culvert; chiseled square

T. 45 N., R. 10 W., in NE 1/4 sec. 16, NE. of 16-ft. white-oak tree; copper nail and washer

T. 45 N., R. 10 W., near center sec. 24, ½ mi. S. and 0.1 mi. E. from Dixie, ½ ft. N. and 25 ft. E. from T-rd. E., 41 ft. W. of and in line with SW. corner of farmhouse, in concrete post; standard tablet stamped "T T Sta No 1 M 1926"

T. 45 N., R. 10 W., near center sec. 25, 75 ft. N. and 40 ft. W. from junction of rds. N., NW., and SE., 250 ft. NW. of farmhouse of J. V. Williams, in root on N. side of 20-in. locust tree; copper nail and washer

T-rd. E., ½0 ft. N. and 16 ft. B. from, on S. end of E. head wall of concrete culvert; chiseled square

T. 45 N., R. 10 W., in NE 1/4 NE 1/4 sec. 36, at NW. pier of bridge over Little Murphy Creek, on top of rivet; chiseled cross

Rd. fork, 30 ft. S. of, in root on E. head wall of concrete culvert; chiseled square

Fres triangulation sta.; Missouri River Commission iron post stamped "Missouri River Commission" Top of cap

Cote sans Desselin, 1.1 mi. N. of store, near cor. Tps. 44 and 55 N., Re. 9 and 10 W., at old location of High Hill Church, on W. side of small cemetery, 40 ft. NE. of rd., in root on SE. side of 52-in. white-oak tree; copper nail and washer

T-rd. W., 55 ft. N. and 35 ft. E. from, in NW. corner of yard of Oak Grove School, in root on W. side of 30-in. hickory tree; crossed nails

Cote sans Desselin, 600 ft. S. of, store, in NW 1/4 sec. 7, T. 45 N., R. 9 W., 20 ft. SW. of Missouri-Kansas-Texas R.R. at rd. crossing, on E. end of S. head wall of concrete culvert; chiseled square

12. FROM SEC. 12, T. 45 N., R. 10 W., WEST ALONG MISSOURI-KANSAS-TEXAS R.R. AND COUNTY ROUTE D BY WAY OF WAINGRITHE TO NORTH JEFFERSON (by W. V. Kennedy in 1937)


Junction of rd. N., 40 ft. N. and 100 ft. E. from, 40 ft. S. of, in telegraph pole; spike

Waingright, 1.5 mi. E. of, 275 ft. E. of, private rd. crossing, on NE. corner of concrete abutment of trestle 136.0; chiseled square

Waingright, 0.7 mi. E. of, in SW 1/4 sec. 15, T. 45 N., R. 10 W., 40 ft. E. of rd. crossing, on center of S. head wall of concrete culvert; chiseled square

*Published in line 9 of the Mokane quadrangle (see Bull. 898-0, pp. 429-430).
SPIRIT LEVELING IN MISSOURI

Wainwright, 90 ft. NW. of sta., 75 ft. SE. of general store and post office, in line with transmission-line poles, in concrete post; standard tablet stamped "6 K 1937".

Wainwright, 0.8 mi. W. of, 20 ft. S. and 30 ft. W. from junction of rd. S., on E. end of iron pipe culvert; chiseled square.

Highway bridge over drainage ditch, at SW. corner of, on top of concrete guardrail; chiseled square.

T. 14 N., R. 10 W., near quarter cor. between secs. 10 and 19, about 500 ft. SW. of point where highway leaves R.R., 15 ft. E. of highway at curve, on E. head wall of concrete culvert; chiseled square.

T. 14 N., R. 11 W., 11 ft. W. of, 30 ft. E. from rd. crossing, 5 ft. E. of warning sign, in concrete post; standard tablet stamped "7 K 1937".

Highway bridge over drainage ditch, at SW. corner of, on top of concrete guardrail; chiseled square.

T. 14 N., R. 11 W., 11 ft. W. of, 30 ft. E. from rd. crossing, 5 ft. E. of warning sign, in concrete post; standard tablet stamped "7 K 1937".

T. 14 N., R. 11 W., 11 ft. W. of, 30 ft. E. from rd. crossing, 5 ft. E. of warning sign, in concrete post; standard tablet stamped "7 K 1937".

North Jefferson, 1.2 mi. E. of, near S. sixteenth cor. between secs. 10 and 11, T. 14 N., R. 11 W., 15 ft. N. of rd. at point where rd. and R.R. separate, in root on S. side of giant elm tree; copper nail and washer.

13. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE NEAR JEFFERSON CITY (not shown on diagram; by W. V. Kennedy in 1937)

U.S. Highway 63 bridge over Missouri River, at E. end of first truss from N. end, on E. anchorbolt; chiseled cross (set by water-resources branch of U.S. Geol. Survey).

U.S. Highway 63 bridge over Missouri River, at E. end of second truss from N. end, on E. anchorbolt; chiseled cross (set by water-resources branch of U.S. Geol. Survey).

For additional level lines along north and south banks of Missouri River, Missouri Pacific R.R., and U.S. Highways 54 and 65, refer to United States Coast and Geodetic Survey first-order lines, Twelve Miles Above St. Louis to Jefferson City, Jefferson City to Pleasant Hill, Jefferson City to Kansas City, Cabool to Osage City; and second-order line, Mexico to Eldon.

META QUADRANGLE (Latitude 38°15'-38°30'; longitude 92°00'-92°15')

Cole, Maries, Miller, and Osage Counties

1. FROM NEW BLOOMFIELD QUADRANGLE SOUTHEAST ALONG U.S. HIGHWAY 50 TO JUNCTION OF U.S. HIGHWAY 63, THEN TO U.S. HIGHWAY 63 INTO LINN QUADRANGLE (by L. V. Johnson in 1932) (Continued from New Bloomfield quadrangle; see line 4.)

Schubert, 2.1 mi. SE. of, 35 ft. N. and 55 ft. W. from junction of rd. W., on S. concrete head wall of culvert; chiseled square (U.S.C. & G.S. elev.).

Schubert, 2.6 mi. SE. of, at NW. corner of bridge over Osage River, on top of concrete wing wall; chiseled square.

Westphalia, 4.4 mi. E. of, 55 ft. S. and 60 ft. E. from junction of U.S. Highway 63, in concrete post; standard tablet stamped "T T 36 B 1932".

Reference mark, at S. corner of triangle formed by junction, on pavement; chiseled square.
Westphalia, 3.1 mi. N. of, 0.9 mi. S. of junction of U.S. Highway 50, on N. end of E. head wall of culvert; chiseled square (U.S.G. & G.S. elev.)

Westphalia, 2.1 mi. N. of, near top of large hill, 50 ft. N. and 50 ft. E. from junction of private rd. SE. to farm house, on S. end of E. concrete head wall of culvert; chiseled square (U.S.G. & G.S. elev.)

Westphalia, 2.1 mi. N. of, near top of large hill, 80 ft. S. and 30 ft. W. from junction of rd. W., in root on W. side of 6-in. oak tree; copper nail and washer

Westphalia, at limits of, 0.5 ft. S. and 100 ft. E. from crossroad, 62 ft. NE. of highway, in concrete post; standard tablet stamped "T T 35 B 1932"

Reference mark, about 40 ft. NE. of tablet, in root on SW. side of 18-in. locust tree; copper nail and washer


(Continued from Tavern quadrangle; see line 2.)

T. 11 N., R. 10 W., near quarter cor. between secs. 33 and 34, 15 ft. SE. of SE. corner of triangle formed by rd. forks, 30 ft. N. of rd. at creek, 110 ft. S. of mailbox of H. Deeken, in root on W. side of 15-in. hickory tree; copper nail and washer

(For balance in Tavern quadrangle, see line 2.)

T. 11 N., R. 11 W., in S 1/2 sec. 36, 25 ft. S. and 20 ft. E. from W. corner of triangle formed by rd. forks, in root on W. side of triangular-blazed 10-in. oak tree; copper nail and washer

Koeltztown, 2.5 mi. W. of, along Meta rd., thence 1.9 mi. S. from, 31 ft. S. and 9 ft. E. from SW. corner post of fence around Catholic Parsonage, in concrete post; standard tablet stamped "T J 1932" 931.337

Reference mark, at SW. corner of parsonage, on SW. corner of concrete walk; chiseled square
St. Thomas, in SE 1/4 sec. 23, T. 42 N., R. 12 W., 20 ft. S. and 56 ft. E. from entrance to St. Thomas Catholic Church, in chiseled circle on root of iron post, chiseled square, iron post, in root of iron post; copper nail and washer, 781.14.0

St. Thomas, at SE. corner of St. George and National Streets, on NW. corner of sidewalk; chiseled square

T. 42 N., R. 10 W., near N. sixteenth cor. between secs. 35 and 36, 105 ft. N. 50° E. of junction of St. Thomas, Losthen Ferry, and Meta rds., in root on S. side of 15-in. hickory tree; copper nail and washer

T. 42 N., R. 12 W., in SW 1/4 sec. 35, on E. bank of Gage River, 15 ft. S. of junction of St. Thomas, Losthein Ferry, and Norrf's Ferry rds., in root on NW. side of 22-in. ash tree; copper nail and washer

T. 42 N., R. 12 W., in SW 1/4 sec. 35, 200 ft. S. of Norrf's Ferry rd., 7 ft. W. of Losthein Ferry-St. Thomas rd., on NW. corner of concrete slab culvert; chiseled square

T. 42 N., R. 12 W., in SW 1/4 sec. 35, 2.5 ft. S. of St. Thomas, 0.5 mi. by bank of Gage River, at Norrf's Ferry landing, 2 ft. S. and 2 ft. W. from SW. corner of recorder house, 14 ft. S. and 3 ft. E. from 18-in. box-elder tree, in concrete post; standard tablet (set by water-resources branch of U.S. Geol. Survey)

5. FROM ST. THOMAS NORTH INTO EUGENE QUADRANGLE AT SEC. 16, T. 43 N., R. 12 W. (by O. P. Hodgson in 1933)

St. Thomas, 0.5 mi. NW. of Catholic Church, 8 ft. W. of Jefferson City-St. Thomas rd., on top of W. partition wall of concrete culvert; chiseled square

St. Thomas, 1.56 mi. NW. of, along Jefferson City-St. Thomas rd., near W. end of concrete culvert, 18 ft. W. of rd., in root on E. side of 16-in. red-oak tree; copper nail and washer

St. Thomas, 2 mi. NW. of, along Jefferson City-St. Thomas rd., near W. side of 14-in. concrete culvert; standard tablet stamped "87 C W A 19314-

St. Thomas, 2.2 mi. NW. of, along Jefferson City-St. Thomas rd., near center of SW 1/4 sec. 11, T. 42 N., R. 12 W., 12 ft. S. of school, 20 ft. W. of rd., 3 ft. W. of 11-in. walnut tree, in fence corner, in concrete post; standard tablet stamped "87 C W A 1934"

Reference mark, 60 ft. N. of tablet, in root on NE. side of 11-in. post-oak tree; copper nail and washer

St. Thomas, 3.4 mi. NW. of, along Jefferson City-St. Thomas rd., 75 ft. E. of rd. forks, in root on N. side of 22-in. post-oak tree; copper nail and washer

St. Thomas, 4.3 mi. NW. of, along Jefferson City-St. Thomas rd., 190 ft. S. of Gage rd., 10 ft. W. of rd. in chiseled circle on concrete culvert; chiseled square, concrete culvert; copper nail and washer

T. 43 N., R. 12 W., in NE 1/4 sec. 35, 0.2 mi. S. of Gage bluff, at farm of E. C. Brenner, 200 ft. E. of County Route B, in N. corner of small orchard, in concrete post; standard tablet stamped "87 C W A 19314-

Reference mark 155 ft. SW. of tablet, in root on S. side of 21-in. maple tree; copper nail and washer

Gage Bluff, 0.9 mi. N. of, along County Route B, on line between secs. 23 and 26, T. 43 N., R. 12 W., 40 ft. W. of highway, in root on NE. side of 28-in. post-oak tree; copper nail and washer

Gage Bluff, 1.57 mi. NW. of, along Honey Creek rd., 17 ft. N. and 330 ft. W. from junction of Harney rd., in root on N. side of 22-in. hickory tree; copper nail and washer

T. 43 N., R. 12 W., in NW 1/4 sec. 26, near junction of Tanner Bridge and Harney rd., 500 ft. E. of dwelling of A. A. Korsmeyer, in S. corner of orchard, in concrete post; standard tablet stamped "87 C W A 1934"

Reference mark, 70 ft. S. and 20 ft. W. from tablet, in root on NE. side of 12-in. post-oak tree; copper nail and washer

(Continued in Eugene quadrangle; see line 5.)

6. FROM WESTPHALIA SOUTHWEST ALONG COUNTY ROUTE M (now State Highway 135) TO META (by P. Y. Brown in 1936)

Westphalia, 1 mi. N. of, 115 ft. S. of junction of U.S. Highway 63, in root on NW. side of 6-in. white-oak tree; copper nail and washer

T. 43 N., R. 10 W., in SW 1/4 sec. 22, 160 ft. W. of rd. junction, in root on S. side of 11-in. hickory tree; crossed nails

Westphalia, 1 mi. W. of, 90 ft. S. and 10 ft. E. from junction of rd. NE., 50 ft. E. of highway, in root on W. side of 20-in. black-oak tree; copper nail and washer

T. 43 N., R. 12 W., in NW 1/4 sec. 26, near junction of Tanner Bridge and Highway 135, 200 ft. E. of dwelling of H. A. Korsmeyer, in S. corner of orchard, in concrete post; standard tablet stamped "87 C W A 1934"

Reference mark, 70 ft. S. and 20 ft. W. from tablet, in root on NE. side of 12-in. post-oak tree; copper nail and washer

824.78

820.73

824.12

829.67

805.17

805.17
Reference mark 2, 175 ft. W. of tablet, in fence line, in root on N. side of 20-in. black-oak tree; copper nail and washer

Junction of wood trail S. at curve, 60 ft. W. of, in fence line, in root on E. side of 14-in. white-oak tree; crossed nails

Junction of rd. E., 40 ft. N. of highway, 6 ft. S. of rd., in root on W. side of 14-in. white-oak tree; copper nail and washer

Babbtown, 3.8 mi. NE. of, in SW 1/4 sec. 11, T. 42 N., R. 13 W., 60 ft. S. and 35 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "T 42 J J 1936"

Reference mark 1, 5 ft. S. and 15 ft. E. from tablet, in root on N. side of 8-in. white-oak tree; copper nail and washer

Painted Rock Club, 10 ft. SE. of N. entrance to, 65 ft. W. of highway, in fence line, in root on E. side of 10-in. white-oak tree; crossed nails

Painted Rock Club, 150 ft. N. of tablet, in root on E. side of 20-in. black-oak tree; copper nail and washer

Junction of rd. NW., 300 ft. S. and 20 ft. E. of, in root on W. side of 14-in. white-oak tree; crossed nails

Top of hill S. of farm of C. A. Schoenen, 1/2 ft. E. of highway, in fence line, in root on S. side of 12-in. white-oak tree; crossed nails

Fence corner, 20 ft. W. of, 35 ft. N. of highway, near right-of-way post, in root on S. side of 14-in. white-oak tree; copper nail and washer

Babbtown, 1 mi. NW. of, 40 ft. S. of highway at top of hill, 10 ft. S. of fence line, in root on S. side of 16-in. hickory tree; copper nail and washer

Babbtown, 1/2 mi. W. of, 25 ft. N. and 15 ft. E. from junction of rd. E., on NW. corner of E. head wall of concrete culvert; painted square

Barnyard of P. A. Otke, 200 ft. E. of highway, at NE. corner of barn, on top of N. end of concrete wall top; painted square

Metro, 0.5 mi. N. of, at junction of rd. W., on concrete between gasoline pumps; chiseled square

U.S.C. & G.S. standard disk stamped "W 98 1935"

7. FROM NEW BLOOMFIELD QUADRANGLE AT SEC. 1, T. 42 N., R. 11 W., WEST TO WARDSVILLE, THENCE SOUTHWEST ALONG COUNTY ROUTE B ABOUT 3 MILES (by P. Y. Brown in 1936) (Continued from New Bloomfield quadrangle; see line 7.)

T. 42 N., R. 11 W., in NW 1/4 sec. 12, 8 ft. N. and 45 ft. W. from cross-roads, in fence corner, in concrete post; standard tablet stamped "T 42 J J 1936"

Cedar Grove School, near front porch of, 20 ft. S. of rd., in root on E. side of 12-in. hickory tree; crossed nails

Teo, 2.6 mi. SW. of, 15 ft. N. of T-rd. S., 450 ft. E. of T-rd. NW., in root on W. side of 12-in. pine tree; copper nail and washer

Teo, 3.2 mi. SW. of, 10 ft. N. and 8 ft. E. from wood trail N., in croton of 10-in. black-oak tree; copper nail and washer

Wardaville, 2.5 mi. E. of, 25 ft. S. and 60 ft. E. from T-rd. SE., in fence corner, in root on N. side of 16-in. white-oak tree; copper nail and washer

Concrete culvert, on W. end of S. head wall; chiseled square
T. ½S., R. 11 W., near center sec. 9, 20 ft. S. and 12 ft. W. from
T-lane S., in concrete post; standard tablet stamped "T 36 J J
1936"
Rd. fork S., in center of triangle, 25 ft. S. of rd., in root on S. side
of 14-in. white-oak tree; crossed nails
Wardsville, 1.2 mi. E. of, 95 ft. N. and 30 ft. W. from T-rd. N., in root
on E. side of 14-in. white-oak tree; copper nail and washer
T-rd. S., 15 ft. S. and 15 ft. E. from, in fence corner, in root on N.
side of 20-in. elm tree; crossed nails
Wardsville, 1 mi. E. of, 45 ft. S. and 15 ft. W. from T-rd. S., in root
on N. side of 10-in. black-walnut tree; copper nail and washer
T-rd. W., 130 ft. S. of, 20 ft. E. of rd., in fence corner, in root on E.
side of 14-in. white-oak tree; crossed nails
Wardsville, 120 ft. S. of County Route B, 60 ft. N. of crossroads, 25 ft.
W. of rd., in root on W. side of 20-in. maple tree; copper nail and
washer
Wardsville, 1.7 mi. W. of, 40 ft. N. and 10 ft. W. from junction of rd.
NW., in concrete post; standard tablet stamped "T 37 J J 1936"
Junction of lane to farmhouse of L. Frank, ½ mi. E. of, ½ mi. N. of NE.
corner of barn, in root on N. side of 14-in. hickory tree; copper
nail and washer
Wardsville, 3.3 mi. W. of, 50 ft. NE. of blacksmith shop of A. Engel-
brecht, 18 ft. E. of highway, on N. end of E. head wall of concrete
culvert; chiseled square
Junction of rd. W., ½50 ft. S. and 150 ft. (?) from, 60 ft. N. of junction of
dr. E., 35 ft. W. of highway, in root on N. side of 14-in. white-oak
tree; nail

For additional level lines along U.S. Highway 63 and Chicago, Rock
Island & Pacific Ry., refer to United States Coast and Geodetic
Survey first-order line, Cabool to Osage City; and second-order
line, Eldon to Labadie.

TAVERN QUADRANGLE
(Latitude 38°00'-38°15'; longitude 92°00'-92°15')
Maries, Miller, Phelps, and Pulaski Counties

1. FROM RICHLAND QUADRANGLE AT SEC. 33, T. 38 N., R. 12 W., EAST BY
WAY OF HANCOCK AND HELM TO DIXON (in Waynesville quadrangle;
by W. R. Broadus in 1925)*
Crocker, 2.7 mi. N., thence 1.1 mi. E. from, along rd. to Hancock, in
NE 1/4 sec. 33, T. 38 N., R. 12 W., 100 ft. NE. of two-story dwelling,
15 ft. N. of rd., in root on S. side of 14-in. oak tree; copper nail
and washer
Hancock, 3.6 mi. W. of, 0.2 mi. E. of center sec. 27, T. 38 N., R. 12 W.,
N. of creek, 23 ft. S. and 5 ft. E. from rd. forks, in root on S. side
culvert; chiseled square
Hancock, 3 mi. W. of, about 0.5 mi. W. of center sec. 26, T. 38 N.,
R. 12 W., 0.4 mi. E. of creek, 620 ft. W. of T-rd. N. on top of hill,
slope of hill, 13 ft. N. of rd., 3 ft. from fence, in top of
limestone ledge; standard tablet stamped "19 B 1925 Mo"
*Published also as line 6 of the Waynesville quadrangle (see Bull. 890-B,
pp. 275-276).
Reference mark, 110 ft. N. 60° E. of tablet, in root on S. side of 12-in. post-oak tree; copper nail and washer

Hancock, 1.7 mi. NW. of, in NE 1/4 NE 1/4 sec. 26, T. 38 N., R. 12 W., 190 ft. NW. of Broad School, 12 ft. N. of rd., 10 ft. E. of gate, in root of 15-in. black-oak tree; copper nail and washer

Hancock, 1.2 mi. NW. of, near center sec. 25, T. 38 N., R. 12 W., 20 ft. N. and 10 ft. W. from rd. forks, in root on S. side of 12-in. post-oak tree; copper nail and washer

Hancock, 0.7 mi. NW. of, in NE 1/4 SE 1/4 sec. 25, T. 38 N., R. 12 W., 1/10 ft. corner from W.-E., at E. side of concrete porch, in root on S. side of 18-ft. black-oak tree; copper nail and washer

Hancock, near line between secs. 30 and 31, T. 38 N., R. 11 W., 125 ft. SW. of St. Louis-San Francisco Ry. sta., 95 ft. W. of rd. crossing, 5 ft. E. of fence corner, in concrete post; standard tablet stamped "20 B 1925 Mo" 1,198.87

Reference mark, 156 ft. N. 30° E. of tablet, on top of concrete platform; chiseled square

Helm, 1.2 mi. E. of, along rd. to Helm, near center of SW 1/4 sec. 29, T. 38 N., R. 11 W., 40 ft. N. and 20 ft. E. from rd. fork E., in root on SW. side of 20-in. black-oak tree; copper nail and washer

Helm, in NE 1/4 sec. 32, T. 38 N., R. 11 W., on top at SE. corner of concrete porch in front of general store of M. O. Mitchell & Son; chiseled square

Dixon, 1.8 mi. W. of, 0.1 mi. E. of cor. secs. 21, 22, 27, and 28, T. 38 N., R. 11 W., 15 ft. S. and 15 ft. E. from rd. fork SW., in root on W. side of 15-in. oak tree; copper nail and washer

Dixon, 0.8 mi. W. of, W. sixteenth cor. between secs. 23 and 26, T. 38 N., R. 11 W., 60 ft. N. and 180 ft. E. from T-rd. N., in root on E. side of 30-ft. oak tree; copper nail and washer

Dixon, at SW. corner of park, 1/0 ft. N. and 75 ft. E. from street intersection, 3 ft. inside of walk, in concrete post; standard tablet stamped "22 B 1925 Mo" 1,175.09

Reference mark, 110 ft. S. 85° W. of tablet, in root on SE. side of 12-in. maple tree; copper nail and washer

Dixon, in front of St. Louis-San Francisco Ry. sta.; top of rail

Van Cleve, 2 mi. NE. of, along rd. to Meta (now State Highway 133), 8 ft. S. and 22 ft. W. from rd. in front of dwelling of A. H. Barnhart, 3 ft. S. of SE. corner of garage, in root on W. side of 12-in. locust tree; copper nail and washer

Van Cleve, 0.9 mi. E. of, along rd. to Meta (now State Highway 133), 75 ft. S. and 12 ft. E. from junction of rd. W., in root on SE. side of 21-ft. oak tree; copper nail and washer

Van Cleve, 12 ft. S. and 80 ft. W. from junction of rd. W., in root on NW. side of concrete oak tree; copper nail and washer

T. 40 N., R. 11 W., cor. secs. 5, 6, 7, and 8, 25 ft. N. and 15 ft. W. from stone at rd. corner W.-NE., in concrete post; standard tablet stamped "T T 139 B 1932" 768.81

(For balance in Meta quadrangle, see line 2.)

T. 41 N., R. 10 W., in SE 1/4 sec. 33, 3/4 mi. S. of Argyle, 1/0 ft. N. and 10 ft. E. from rd. forks, in concrete line, in root on SE. side of 12-in. oak tree; copper nail and washer

T. 40 N., R. 10 W., in NW 1/4 sec. 2, 90 ft. S. and 15 ft. W. from rd. fork NW. to dwelling of Frank Bode, 95 ft. NW. of mail box, in fence line, in root on SE. side of 18-in. walnut tree; copper nail and washer

T. 40 N., R. 10 W., in SW 1/4 sec. 5, 5/1 mi. S. of Argyle along Little Maries rd., 51/2 ft. S. and 60 ft. E. from rd. fork NE., 15 ft. N. and 12 ft. E. from fence corner, in concrete post; standard tablet stamped 5 J 1932 744.55

Reference mark, 100 ft. E. of rd. forks, S. of rd., in root on W. side of 30-in. oak tree; copper nail and washer

T. 41 N., R. 10 W., in SW 1/4 sec. 31, on Meta-Vienna rd., 200 ft. NW. of dim rd. fork E. to field, 15 ft. E. of rd., in root on NW. side of triangular-braced 12-in. oak tree; copper nail and washer

(For balance in Meta quadrangle, see line 2.)

Van Cleve, 2 mi. NE. of, along rd. to Meta (now State Highway 133), 8 ft. S. and 22 ft. W. from rd. in front of dwelling of A. H. Barnhart, 3 ft. S. of SE. corner of garage, in root on W. side of 12-in. locust tree; copper nail and washer

Van Cleve, 0.9 mi. E. of, along rd. to Meta (now State Highway 133), 75 ft. S. and 12 ft. E. from junction of rd. W., in root on SE. side of 21-ft. oak tree; copper nail and washer

Van Cleve, 12 ft. S. and 80 ft. W. from junction of rd. W., in root on NW. side of concrete oak tree; copper nail and washer

T. 40 N., R. 11 W., cor. secs. 5, 6, 7, and 8, 25 ft. N. and 15 ft. W. from stone at rd. corner W.-NE., in concrete post; standard tablet stamped "T T 139 B 1932" 768.81

(For balance in Meta quadrangle, see line 2.)
Reference mark, 50 ft. NE. of tablet, in root on W. side of 18-in. oak tree; copper nail and washer

T. 39 N., R. 12 W., 30 ft. N. of W. cor. secs. 6 and 7, on Maries-Miller county line, at S. gatepost, in root on NW. side of 24-in. oak tree; copper nail and washer

T. 39 N., R. 12 W., near W. sixteenth cor. between secs. 1 and 12, about 600 ft. N. of rd. forks, 55 ft. S. and 70 ft. E. from rd. at fence E., in root on W. side of triangular-blazed 15-in. oak tree; copper nail and washer

St. Elizabeth, 3.7 mi. E. of, near center secs. 2, 3, 34, and 35, Tps. 10 and 11 N., R. 12 W., 10 ft. S. of rd. at curve to SW., at S. corner of jog in E.-W. fence line, in root on N. side of 12-in. oak tree; copper nail and washer

St. Elizabeth, 1.7 mi. E. of, 20 ft. N. and E. from E. end of bridge over creek, in root on SW. side of 15-in. walnut tree; copper nail and washer

(Continued in Eugene quadrangle; see line 1.)

3. FROM SEC. 12, T. 40 N., R. 12 W., SOUTH INTO IBERIA QUADRANGLE


T. 40 N., R. 12 W., in SW 1/4 sec. 13, 180 ft. S. of SW. corner of farmhouse, 270 ft. N. of mail box, 40 ft. S. of ford across small creek, 15 ft. E. of rd. in line with 40 ft. E. to field, in root on W. side of 18-in. hickory tree; copper nail and washer

T. 40 N., R. 12 W., near center sec. 24, 0.2 mi. S. of farmhouse of H. E. Parlis, on N. slope of hill, 40 ft. N. of rd. corner, in fence line, in root on NE. side of triangular-blazed 15-in. oak tree; copper nail and washer

St. Elizabeth, 2.6 mi. E. of, near center secs. 2, 3, 34, and 35, Tps. 10 and 11 N., R. 12 W., 10 ft. S. of rd. at curve to SW., at S. corner of jog in E.-W. fence line, in root on N. side of 12-in. oak tree; copper nail and washer

St. Elizabeth, 2.6 mi. E. of, near center secs. 2, 3, 34, and 35, Tps. 10 and 11 N., R. 12 W., 10 ft. S. of rd. at curve to SW., at S. corner of jog in E.-W. fence line, in root on N. side of 12-in. oak tree; copper nail and washer

T. 40 N., R. 12 W., near center sec. 25, 10 ft. S. and 50 ft. E. from SE. corner of dwelling of Joe Dake, 22 ft. N. and 15 ft. W. from T-rd. E., in root on E. side of twin oak tree; copper nail and washer


Reference mark, 35 ft. N. and 15 ft. E. from T-rd. E., in root on W. side of 2L-in. oak tree; copper nail and washer

T. 40 N., R. 12 W., in NE 1/4 sec. 2, 15 ft. S. and 60 ft. E. from SE. corner of dwelling of Ed Pelden (Fellen ?), 35 ft. W. of rd., in root on E. side of 15-in. walnut tree; copper nail and washer

T. 39 N., R. 12 W., about 0.8 mi. S. of N. cor. secs. 1 and 2, 110 ft. N. of rd. fork E., 30 ft. N. and 10 ft. E. from rd. fork W., in concrete post; standard tablet stamped "T T 105 B 1932"

Reference mark, 32 ft. E. of tablet, in root on NW. side of elm tree; copper nail and washer

T. 39 N., R. 12 W., in SE 1/4 sec. 2, about 400 ft. SW. of ford, 60 ft. E. of rd., 1 ft. N. of fence line, in root on SE. side of triangular-blazed 10-in. oak tree; copper nail and washer

T. 39 N., R. 12 W., near quarter cor. between secs. 1 and 2, 20 ft. S. and rd. fork SW., about 80 ft. W. of SW. corner of farmhouse, 12 ft. S. and 35 ft. E. from mail box, in root on SW. side of 18-in. oak tree; copper nail and washer

T. 39 N., R. 12 W., near quarter cor. between secs. 12 and 13, 13 ft. S. and 12 ft. E. from rd. fork E., in root on NW. side of triangular-blazed 2L-in. oak tree; copper nail and washer


Reference mark, 0 ft. NE. of NE. corner of church, in root on SE. side of 15-in. hickory tree; copper nail and washer

T. 39 N., R. 12 W., in SE 1/4 sec. 23, 20 ft. S. and 65 ft. W. from W. point of triangle formed by rd. forks, 10 ft. N. of rd., in root on SW. side of triangular-blazed 10-in. oak tree; copper nail and washer

T. 39 N., R. 12 W., in NE 1/4 sec. 25, 20 ft. N. and 18 ft. W. from N. point of triangle formed by rd. fork NW., in root on S. side of 15-in. oak tree; copper nail and washer


T. 39 N., R. 12 W., in NW 1/4 sec. 34, 25 ft. S. and 20 ft. W. from rd. in front of dwelling of Mrs. Joel Alwell, 12 ft. NW. of W. gatepost to pasture, 2 ft. E. of fence line, in root on E. side of 12-in. oak tree; copper nail and washer


T. 39 N., R. 12 W., 15 ft. S. of rd., 10 ft. from junction of rd. forks NE. and SE., in root on S. side of 2L-in. oak tree; copper nail and washer

(Continued in Iberia quadrangle; see line 2.)
L. FROM VIENNA SOUTH TO DIXON, INCLUDING THAT PART OF THE LINE IN VIENNA AND WAYNESVILLE QUADRANGLES (by O. F. Hodgdon in 1931)*

T. 40 N., R. 9 W., 3 ft. S. and 227 ft. E. from NW. cor. sec. 32, 62 ft. E. of rd., in root on W. side of 24-in. elm tree; nail and washer

315 ft. S. of rd., in root on W. side of 16-in. white-oak tree; nail and washer

T. 40 N., R. 10 W., 175 ft. S. of center sec. 31, 35 ft. S. of rd., in root on W. side of 6-in. pin-oak tree; nail and washer

T. 40 N., R. 10 W., 520 ft. E. of probable S. quarter cor. sec. 36, 2 ft. S. of SW. cor. of Vienna, 40 ft. W. of rd., in concrete post; standard tablet stamped "T 325 C O W A 1934"

Reference mark, 101 ft. S. 15° W. of tablet, in root on S. side of 16-in. post-oak tree; copper nail and washer

T. 39 N., R. 10 W., in NW 1/4 sec. 2, 30 ft. W. of rd., in root on W. side of 16-in. hackberry tree; copper nail and washer

T. 39 N., R. 10 W., 20 ft. E. of rd., in root on N. side of 12-in. post-oak tree; copper nail and washer


T. 38 N., R. 9 W., in NE 1/4 sec. 1, 8 mi. SW. of Vienna, along State Highway 28, at junction of Hayden rd., 15 ft. S. of rd., on top of W. head wall of tile pipe culvert; chiseled square

T. 38 N., R. 9 W., cor. secs. 13, 14, 25, and 26; 166 ft. S. and 507 ft. W. from, on Hayden rd., about 0.9 mi. S. of State Highway 28, 20 ft. W. of rd., in root on NE side of 16-in. post-oak tree; copper nail and washer


Hayden, 0.5 mi. N. of quarter cor. between secs. 25 and 26, T. 39 N., R. 10 W., 695 ft. S. and 55 ft. W. from, stone 90 ft. S. and 25 ft. W. from, concrete E., in concrete post; standard tablet stamped "T T 327 C O W A 1934"

Reference mark, 111 ft. N. and 37 ft. S. from tablet, in root on S. side of 20-in. post-oak tree; copper nail and washer

T. 38 N., R. 9 W., on line between secs. 35 and 36, 15 ft. E. of rd., in root on W. side of 16-in. white-oak tree; copper nail and washer

T. 38 N., R. 10 W., N. cor. secs. 1 and 2, 35 ft. S. of rd., in root on W. side of 15-in. white-oak tree; copper nail and washer

T. 38 N., R. 10 W., quarter cor. between secs. 1 and 2, 2 mi. S. of Hayden, 12 ft. S. and 132 ft. E. from T-rd. N., in concrete post; standard tablet stamped "T 328 C O W A 1934"

Reference mark, 162 ft. N. and 102 ft. W. from tablet, in root on S. side of 22-in. Spanish-oak tree; copper nail and washer

T. 38 N., R. 10 W., quarter cor. between secs. 1 and 6, 177 ft. S. and 126 ft. W. from, 10 ft. S. of rd., in root on N. side of 17-in. Spanish-oak tree; nail and washer

T. 38 N., R. 9 W., N. sixteenth cor. sec. 6, 580 ft. S. and 110 ft. E. from, 2 mi. S., thence 1.5 mi. E. from Hayden, 40 (167 ft. E. of rd.) forks, in concrete post; standard tablet stamped "T T 329 C O W A 1934"

Reference mark, 196 ft. E. from tablet, in root on S. side of 11-in. Spanish-oak tree; lead-headed nail and washer

T. 38 N., R. 9 W., 15 ft. N. and 75 ft. W. from center of SW 1/4 sec. 6, 8 ft. S. of Cliftydale rd., 20 ft. SW. of spring, in root on E. side of 22-in. white-oak tree; copper nail and washer

T. 38 N., R. 10 W., 1410 ft. N. and 15 ft. E. of center of NE 1/4 sec. 12, 40 ft. N. of Cliftydale rd., in root on S. side of 12-in. hickory tree; copper nail and washer


Reference mark, 56 ft. S. and 56 ft. W. from tablet, in root on SW side of 12-in. white-oak tree; copper nail and washer

T. 38 N., R. 10 W., 0.2 mi. S. of NW. cor. sec. 14, 40 ft. S. of Cliftydale rd., in root on N. side of 22-in. white-oak tree; copper nail and washer

T. 38 N., R. 10 W., 43 ft. E. of quarter cor. between secs. 15 and 16, 27 ft. E. of Cliftydale rd., in root on W. side of 16-in. white-oak tree; copper nail and washer

T. 38 N., R. 10 W., 13 ft. S. and 28 ft. W. from quarter cor. between secs. 16 and 17, 33 ft. S. of Cliftydale rd., in root on N. side of 30-in. post-oak tree; copper nail and washer


Reference mark, 58 ft. E. of tablet, 45 ft. N. of Cliftydale rd., 70 ft. SW. of highway, in root on W. side of 10-in. hackberry tree; copper nail and washer


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*Line 4 of Vienna quadrangle includes a portion of this line (see Bull. 598-C, p. 116); also line 9 of Waynesville quadrangle (see Bull. 598-B, p. 277).
Dixon, about 1.5 mi. E. of, along State Highway 28, in SW 1/4 sec. 19, T. 38 N., R. 10 W., 50 ft. N. of highway, in root on SE. side of 20-in. blackjack-oak tree; nail and washer 1,215.07

5. FROM SEC. 2, T. 39 N., R. 12 W., SOUTH INTO WAYNESVILLE QUADRANGLE

At Sec. 26, T. 39 N., R. 11 W. (by W. L. Presley in 1934)


T. 39 N., R. 12 W., in sec. 1 (?), 60 ft. W. from junction of Miller County line and N.-S. rd., in root on S. side of post-oak tree; copper nail and washer 875.62


County Route A (now State Highway 42), 6 ft. S. of highway, in root of 30-in. elm tree; copper nail and washer 917.10

T. 39 N., R. 12 W., in SW 1/4 sec. 2, 68 ft. E. of SW. corner of dwelling, in root of 14-in. black-oak tree; copper nail and washer 947.71


Reference mark, 30 ft. N. and 312 ft. E. from tablet, in top of stump of 16-in. white-oak tree; copper nail and washer 906.67

T. 39 N., R. 11 W., near line between secs. 6 and 7, N. of rd., in concrete post; chiseled square 798.39

T. 39 N., R. 11 W., in NW 1/4 sec. 6, 30 ft. E. of Little Tavern Creek, 16 ft. S. of E.-W. rd., in root on N. side of 24-in. walnut tree; copper nail and washer 890.06

T. 39 N., R. 11 W., in NW 1/4 sec. 6, 60 ft. E. of T-rd., 50 ft. N. of NW. corner of dwelling, in root on W. side of 24-in. black-oak tree; copper nail and washer 933.79

T. 39 N., R. 11 W., in SW 1/4 sec. 29, 60 ft. S. of roads, 28 ft. from rd., in root on W. side of 16-in. white-oak tree; copper nail and washer 1,095.07

T. 39 N., R. 11 W., in W 1/2 sec. 29, 0.5 ft. S. of crossroads, 35 ft. E. of rd., in root on W. side of 18-in. white-oak tree; copper nail and washer 1,100.26


Reference mark, 120 ft. SE., thence 20 ft. NE. from tablet, in root on SW. side of 24-in. white-oak tree; copper nail and washer 1,168.28


Vienna, 1.7 mi. W. of, 10 ft. S. of highway, in S. side of 18-in. black-oak tree; copper nail and washer 1,120.67

Vienna, 3.4 mi. W. of, 50 ft. S. of highway, at gatepost, in twin white-oak trees; copper nail and washer 940.64


Vienna, 4.7 mi. W. of, 10 ft. N. of highway, in S. side of white-oak tree; copper nail and washer 965.63

6. FROM VIENNA QUADRANGLE WEST ALONG COUNTY ROUTE A (now State Highway 42) TO SEC. 1, T. 39 N., R. 12 W. (by S. M. Hayes in 1934)

Vienna, 3.4 mi. W. of, 50 ft. S. of highway, at gatepost, in twin white-oak trees; copper nail and washer
Vienna, 5.3 mi. W. of, 1/4 ft. S. of highway, 1/4 ft. W. of junction of rd. S. to Vienna, in root on N. side of 12-in. white-oak tree; copper nail and washer

Vienna, 5.8 mi. W. of, 35 ft. N. of highway, in root on S. side of 14-in. blackjack-oak tree; copper nail and washer

Vienna, 6.0 mi. W. of, 50 ft. S. of highway, in root on W. side of 12-in. white-oak tree; copper nail and washer


Vienna, 7.7 mi. W. of, 1/4 ft. S. of highway, in root on S. side of 26-in. white-oak tree; copper nail

Vienna, 8.2 mi. W. of, 60 ft. S. of junction of rd. S., 1/4 ft. S. of highway, in fence line, in root on N. side of large white-oak tree; copper nail and washer

Vienna, 8.6 mi. W. of, on S. concrete wall of bridge; chiseled square

Vienna, 8.9 mi. W. of, in yard of Prosperity School, 30 ft. S. of highway, in root on W. side of 12-in. white-oak tree; copper nail and washer


Vienna, 10.3 mi. W. of, on N. wall of bridge; chiseled square

Vienna, 10.6 mi. W. of, on concrete walk of bridge over Little Maries Creek; chiseled square

Vienna, 11.0 mi. W. of, 600 ft. E. of junction of County Route M (now State Highway 133), 1/4 ft. N. of highway; (mark not described)

Vienna, 11.1 mi. W. of, 30 ft. N. of highway at junction of rd. S., in SW. side of 16-in. hickory tree; copper nail and washer

Vienna, 11.4 mi. W. of, in sec. 34, T. 10 N., R. 11 W., 30 ft. N. of rd., in root on SE. side of 6-in. post-oak tree; copper nail and washer


Vienna, 11.6 mi. W. of, on 5 ft. E. from fence, in concrete post; standard tablet stamped "T T 1931 D" (by F. Y. Brown in 1936)


Culvert, 6 ft. E. of rd., on center of E. head wall; chiseled square

T. 39 N., R. 10 W., in SW 1/4 sec. 30, 50 ft. W. and 1/4 ft. E. from State Highway 28 at rd. NB., in root on N. side of 12-in. black-oak tree; copper nail and washer


Reference mark, 1/4 ft. E. from, on center of E. head wall of concrete culvert; chiseled square

Wood trail S., 12 ft. S. and 8 ft. E. from, in root on N. side of 12-in. black-oak tree; crossed nails

T. 39 N., R. 10 W., in SW 1/4 sec. 9, 1/4 ft. N. and 100 ft. W. from rd. forks, 1/4 ft. S. and 1/4 ft. E. from entrance to farm of R. Blantion, in root on N. side of 20-in. black-oak tree; copper nail and washer

T. 39 N., R. 10 W., near quarter cor. between secs. 8 and 9, 35 ft. N. and 21 ft. W. from T-rd. W., in root on E. side of 18-in. black-oak tree; copper nail and washer

Top of hill, 15 ft. W. of rd., opposite dwelling of F. A. Sudheimer, at gate, in fence line, in root on E. side of 16-in. white-oak tree; crossed nails


T. 39 N., R. 10 W., near E. sixteenth cor. between secs. 6 and 7, 500 ft. SW. of concrete lidw*water bridge, 15 ft. S. and 70 ft. E. from rd. N., 210 ft. W. of rd. corner S.-W., in root on N. side of 30-in. black-oak tree; copper nail and washer

Farmhouse of G. S. Millett, 35 ft. S. and 50 ft. W. from SW. corner of; in root on N. side of 16-in. hickory tree; crossed nails
T. 39 N., R. 11 W., in NE 1/4 sec. 12, 15 ft. S. and 75 ft. E. from T-rd. S., in fence line, in root on S. side of 8-in. black-oak tree; crossed nails

Brinktown, 120 ft. E. of SE. corner of post office, 60 ft. E. of T-rd. N., in E-W. fence line, in root on S. side of 20-in. locust tree; copper nail and washer

Brinktown, 0.3 mi. W. of, 55 ft. S. and 30 ft. W. from junction of rd. E., in root on NE. side of 16-in. black-oak tree; copper nail and washer

T. 39 N., R. 11 W., near line between secs. 1 and 12, 100 ft. S. of junction of rd. E., 100 ft. N. and 25 ft. W. from junction of wood trail W., in root on S. side of 12-in. post-oak tree; crossed nails

Brinktown, 0.3 mi. W., hence 1.2 mi. N. from 30 ft. W. of highway, in root on S. side of 12-in. white-oak tree; copper nail and washer


T. 39 N., R. 11 W., in NW 1/4 sec. 2, 15 ft. S. of highway, on top of S. end of E. abutment of concrete bridge over Little Maries Creek; chiseled square

Top of hill, 110 ft. S. of corner of rail fence, 36 ft. W. of highway, in root on NE. side of 8-in. white-oak tree; copper nail and washer


Junction of rd. SW., 50 ft. W. of, on S. end of E. head wall of concrete culvert; chiseled square

County Route A (now State Highway 42), S. junction of, 255 ft. SE. of, 60 ft. S. of S. corner of highway maintenance depot, 18 ft. NE. of highway, in root on W. side of 15-in. white-oak tree; copper nail and washer

IBERIA QUADRANGLE
(Latitude 38°00'-38°15'; longitude 92°15'-92°30')

Camden, Miller, and Pulaski Counties

1. FROM EUGENE QUADRANGLE AT SEC. 6, T. 40 N., R. 12 W., WEST TO POINT ABOUT 1.3 MILES SOUTHEAST OF TUSCUMBIA, THENCE SOUTHEAST ALONG STATE HIGHWAY 17 TO JUNCTION OF COUNTY ROUTE C, THENCE SOUTHWEST ALONG COUNTY ROUTE O TO ULMAN, THENCE WEST BY WAY OF DOG CREEK SCHOOL INTO VERSAILLES NO. 1; QUADRANGLE AT SEC. 7, T. 39 N., R. 11 W. (by E. V. Johnson in 1932) (Continued from Eugene quadrangle; see line 1.)

St. Elizabeth, 2.8 mi. W. of, along rd. to Capps, about 300 ft. SW. of junction of private rd. SE. to farmhouse of E. A. Hodges, 70 ft. N. of ford across Sullivan Branch, in root on S. side of triangular-blazed 20-in. oak tree; copper nail and washer

Capps, in W 1/2 sec. 1, T. 40 N., R. 13 W., about 0.2 mi. E. of store, 300 ft. W. of bridges over Humphrey Creek, 35 ft. S. and 15 ft. W. from rd. corner, in concrete post; standard tablet stamped "T T 150 B 1932" Reference mark, 75 ft. E. of tablet, in root on S. side of twin oak tree; copper nail and washer

Capps, 1.1 mi. W. of, along rd. to Tuscumbia (now County Route B), 18 ft. S. and 70 ft. W. from junction of private rd. NW., in deep sadder of ridge, in root W. side of 15-in. oak tree; copper nail and washer

Capps, 2.1 mi. W. of, along rd. to Tuscumbia (now County Route B), 25 ft. SW. of S. end of bridge over Panther Creek, on N. end of concrete anchor for large wire cable; chiseled square

(For balance in Eugene quadrangle, see line 1.)
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T. 40 N., R. 14 W., in SE 1/4 SE 1/4 sec. 11, 0.5 mi. E. of State Highway 17, at foot of hill, 30 ft. N. and 10 ft. E. from junction of S. entrance of Dog Creek School, in root on S. end of W. concrete head wall of culvert; chiseled square

Tuscumbia, 4 ml. SE. of, 22 ft. E. of highway, on N. side of E. head wall of large, concrete culvert over creek; chiseled square

Tuscumbia, 4-8 ml. SE. of, 250 ft. NW. of junction of private rd. NE. to farmhouse, 22 ft. E. of highway, on E. concrete head wall of culvert; chiseled square

Ulman, 0.6 mi. W. of SE. corner of post office, in concrete porch; standard tablet stamped "10 J 1932" 939.15

Reference mark, 60 ft. W. of tablet, on concrete driveway to filling sta.; chiseled square

Reference mark, 60 ft. W. of tablet, on concrete driveway to filling sta.; chiseled square

Reference mark, 50 ft. S. and 110 ft. W. from junction of rd. SW. to Ulman (now County Route O), in N. concrete head wall of culvert; chiseled square

Reference mark, 75 ft. N. and 100 ft. W. from junction of rd. SW., on concrete head wall of culvert; chiseled square

Ulman, 2.1 mi. W. of, on S. end of W. concrete railing of bridge over drain; chiseled square

Ulman, opposite S. entrance to campus of Iberia Junior College, 30 ft. S. and 10 ft. E. from crossroads, 3 ft. S. of S. corner of front yard of dwelling of Mrs. G. A. Mace, in concrete post; standard tablet stamped "T 175 B 1932" 934.25

Reference mark, 50 ft. W. of tablet, on stone wall; chiseled square

Post 909.16

759.78

656.70


T. 14.0 N., R. 13 W., in NE 1/4 sec. 12, on St. Elizabeth rd. (now County Route E), 2.2 mi. NE. of junction of State Highway 17, 140 ft. E. of bridge over Dog Creek, 14 ft. N. and 10 ft. W. from rd. corner, in concrete post; standard tablet stamped "T 155 B 1932"

Reference mark, 600 ft. W. of tablet, on large wire cable; chiseled square

Reference mark, 50 ft. W. of tablet, on stone wall; chiseled square

Post 568.97

609.1114

741.54

Tuscumbia, 1.5 mi. E. of, 50 ft. S. and 55 ft. E. from State Highway 17 at rd. SE., on S. concrete head wall of culvert; chiseled square

Tuscumbia, 2.2 mi. SE. of, on top of concrete railing at SE. corner of concrete bridge over Dog Creek; standard tablet stamped "8 J 1932" 607.14

Tuscumbia, 2.9 mi. SE. of, in W. 1/2 sec. 5, T. 39 N., R. 14 W., 15 ft. S. and 20 ft. W. from rd. forks, in concrete post; standard tablet stamped "T T 156 B 1932" 879.70

T. 39 N., R. 14 W., in line between sees. 5 and 8, about 350 ft. N. of curve in rd., 60 ft. S. and 25 ft. E. from rd. at fence S., in root on W. side of triple oak tree; copper nail and washer

T. 39 N., R. 14 W., in SE 1/4 sec. 7, 20 ft. N. and 60 ft. W. from NW. corner of farmhouse of Sam Cooper, 25 ft. W. of rd., in root on SE. side of 10-in. oak tree; copper nail and washer

2. FROM TAVERN QUADRANGLE AT SEC. 33, T. 39 N., R. 12 W., NORTHWEST TO IBERIA (by L. V. Johnson in 1932)

(Continued from Tavern quadrangle; see line 3.)
PART 7, CENTRAL MISSOURI, 1896-1938

3. FROM EUGENE QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 52 TO TUSCUMBIA (by L. V. Johnson in 1932)

(Continued from Eugene quadrangle; see line 2.)

Feet

Tuscumbia, 0.9 ml. NW. of, 15 ft. S. and 25 ft. E. from junction of rd. NE., on S. concrete head wall of culvert; chiseled square

776.95

Tuscumbia, 1.3 ml. E. of, at junction of rd. E. to St. Elizabeth, 80 ft. S., thence 170 ft. E. from center line of highway 17, in concrete post; standard tablet stamped "T T 151 B 1929" 742.04

744.612


(Continued from Versailles No. 4 quadrangle; see line 2.)

Reference mark, 500 ft. S. of tablet, in front of hotel, on ledge; chiseled square

731.579

T. 38 N., R. 12 W., in SW 1/4 sec. 20, 10 ft. N. of rd. fork W., in root of 12-in. oak tree; copper nail 729.20

750.301

Brumley, 1.1 ml. S. of, in SW 1/4 sec. 5, 10 ft. SW. of T-rd. W., on head wall of culvert; chiseled square

876.05

986.99

Brumley, 1.1 ml. S. of, in SW 1/4 sec. 5 and 8, T. 38 N., R. 12 W., 300 ft. N. of ford across Brumley Creek, 35 ft. S. and 25 ft. W. from T-rd. S., in concrete post; standard tablet stamped "/2 T 161 B 1932" 731.579

Reference mark, 500 ft. S. of tablet, in root of 30-in. oak tree; copper nail

751.851

T. 38 N., R. 12 W., in SW 1/4 sec. 20, 50 ft. N. of T-rd. W., in root of 20-in. walnut tree; copper nail and washer 758.14

758.14

5. FROM BRUMLEY EAST TO IBERIA, THENCE SOUTH ALONG STATE HIGHWAY 17 INTO RICHLAND QUADRANGLE (by C. E. Reick in 1932)

Brumley, 1 ml. E. of, in SW 1/4 sec. 28, T. 39 N., R. 14 W., N. of rd., in root of 24-in. oak tree; copper nail

861.65

T. 39 N., R. 14 W., in SW 1/4 SW 1/4 sec. 22, 50 ft. NE. of rd. fork N., in root of 20-in. oak tree; copper nail

977.58

T. 39 N., R. 14 W., in NE 1/4 NE 1/4 sec. 27, 100 ft. NE. of rd. forks, 50 ft. N. of rd., in concrete post; standard tablet stamped "/2 T 172 B 1929" 798.327

Reference mark, 590 ft. SE. of tablet, in root of 20-in. oak tree; copper nail

798.327

T. 39 N., R. 14 W., in NW 1/4 SE 1/4 sec. 26, 200 ft. SE. of Honey Spring School, in triangle of rd. fork SW., in 24-in. oak tree; copper nail

987.47

T. 39 N., R. 14 W., 400 ft. SW. of cor. secs. 25, 24, 25, and 26, 60 ft. NW. of rd. forks, in root of 15-in. oak tree; copper nail

987.38

T. 39 N., R. 14 W., in NE 1/4 NE 1/4 sec. 25, 15 ft. N. of rd., in root of 15-in. oak tree; copper nail

880.65

T. 39 N., R. 14 W., in NE 1/4 NE 1/4 sec. 30, on W. bank of Barren Fork Creek, S. of rd., in root of 20-in. oak tree; copper nail

755.58

Iberia, 5 ml. W. of, along rd. to Brumley, in SW 1/4 sec. 29, T. 39 N., R. 15 W., 0.3 ml. NW. of Spearsman School, 70 ft. SE. of dwelling of E. Barton, 55 ft. N. of rd., in concrete post; standard tablet stamped "/2 T 175 B 1932" 828.556

Reference mark, 350 ft. E. of tablet, in root of 20-in. oak tree; copper nail

832.41

Iberia, about 1 ml. W. of, on line between secs. 28 and 33, T. 39 N., R. 15 W., S. of rd., in root of 30-in. oak tree; copper nail

959.54

Iberia, about 3 ml. W. of, in SE 1/4 SW 1/4 sec. 27, T. 39 N., R. 15 W., 10 ft. N. of rd., in root of 24-in. oak tree; copper nail

943.85

Iberia, 2.5 ml. W. of, along rd. to Brumley, in SE 1/4 SE 1/4 sec. 27, T. 39 N., R. 15 W., 35 ft. N. and 10 ft. E. from NE. corner of dwelling of Willard Duncan, 85 ft. S. of rd., in concrete post; standard tablet stamped "/2 T 175 B 1932" 959.629

Reference mark, 340 ft. E. of tablet, in root of 10-in. oak tree; copper nail

Iberia, about 1.5 ml. W. of, in NE 1/4 sec. 26, T. 39 N., R. 15 W., SE. of crossroads, in top of corner fence post; copper nail

946.06

Iberia, 1 ml. S. of, E. of highway, in root of 24-in. oak tree; copper nail

939.54

T. 39 N., R. 13 W., in SE 1/4 sec. 36, 50 ft. SE. of crossroad, in root of 24-in. oak tree; copper nail

1,015.08

T. 38 N., R. 12 W., in NW 1/4 sec. 6, 0.3 ml. E. of highway, in root of 30-in. oak tree; copper nail

1,033.40

816.46
T. 38 N., R. 12 W., in NE 1/4 NW 1/4 sec. 7, about 500 ft. S. of bridge over Tavern Creek, 1/4 ft. N. and 30 ft. W. from farmhouse of D. R. Tehlin, in concrete post; standard tablet stamped "T T 376 B 1932". Reference mark, 0.2 mi. S. of tablet, on SE. abutment of bridge; chiseled square. 786.605

T. 38 N., R. 12 W., in NW 1/4 SE 1/4 sec. 10, 310 ft. S. of junction of rd. E., on W. head wall of culvert; chiseled square. 858.75

T. 38 N., R. 12 W., on line between secs. 17 and 20, 5 mi. N. of Crocker, 5 ft. N. and 35 ft. E. from highway at Miller-Pulaski county line, in concrete post; standard tablet stamped "T T 177 B 1932". 997.350

T. 38 N., R. 12 W., in SE 1/4 sec. 20, 70 ft. NW. of junction of rd. N., 10 ft. E. of church, in root of 20-in. oak tree; copper nail. 1,049.79

Iberia, 1 mi. NW. of, on top of hill, E. of highway, in root of 30-in. locust tree; spike. 934.25

Iberia, 2 mi. NW. of, W. of highway, in base of gatepost; spike. 902.09

T. 39 N., R. 13 W., on line between secs. 3 and 10, on SE. abutment of bridge over Barren Fork Creek; chiseled square. 861.496

T. 39 N., R. 13 W., in SW 1/2 sec. 4, E. of highway, on concrete culvert; chiseled square. 861.496

T. 39 N., R. 13 W., about 0.2 mi. S. of N. cor. secs. 4 and 5, about 0.2 mi. W. of bridge over Brushy Fork Creek, 1/4 ft. N. and 28 ft. E. from junction of rd. N., in corner of barnyard, in sandstone boulder; standard tablet stamped "T T 179 B 1932". 729.669

T. 40 N., R. 13 W., in SW 1/2 sec. 34, S. of rd. at lane S., in root of 18-in. oak tree; copper nail. 794.90


Reference mark, 210 ft. N. of tablet, on small boulder; chiseled square. 900.679

T. 40 N., R. 13 W., on line between secs. 22 and 23, 20 ft. N. of rd. forks, in root of 18-in. oak tree; copper nail. 704.87


T. 40 N., R. 13 W., in SW 1/4 SW 1/4 sec. 12, W. of rd., on head wall of culvert; chiseled square. 606.24

T. 40 N., R. 13 W., near cor. secs. 1, 2, 11, and 12, 30 ft. SW. of rd. fork, in root of 35-in. elm tree; copper nail. 565.81


Reference mark, 270 ft. SE. of tablet, in root of 20-in. walnut tree; copper nail. 1,110.92

Tuscumbia, 1.2 mi. N. of, at junction of rd. W., on W. head wall of culvert; chiseled square. 573.61

Tuscumbia, 0.5 mi. N. of, 200 ft. S. of junction of State Highway 52, on E. head wall of culvert; chiseled square. 578.06

Tuscumbia, on bottom step of entrance to Havenstems general store; chiseled square. 575.97

Elevations on this line are preliminary only and should be used with caution.

8. FROM EUGENE QUADRANGLE SOUTHWEST ALONG STATE HIGHWAY 17 TO TUSCUMBIA (single-run unchecked spur line by J. H. Vineyard in 1934). (Continued from Eugene quadrangle; see line 4.)
1. FROM META QUADRANGLE AT SEC. 31, T. 11 N., R. 12 W., WEST INTO
IBERIA QUADRANGLE AT SEC. 6, T. 10 N., R. 13 W. (by L. V.
Johnson in 1932)
(Continued from Tavern quadrangle; see line 2.)

St. Elizabeth, 0.7 mi. E. of, in S 1/2 sec. 33, T. 11 N., R. 12 W., about
50 ft. SW. of large farmhouse, 28 ft. S. of junction of private rd.
SE., in root on N. side of 10-in. oak tree; copper nail and washer

St. Elizabeth, at SE. corner of yard of Catholic Church, 50 ft. N. and
30 ft. W. from street intersection, in concrete post; standard tablet
stamped "T T 151 B 1932"

Reference mark, 50 ft. E. of tablet, on E. concrete head wall of culvert;
chiseled square

St. Elizabeth, 0.7 mi. W. of, along rd. to Capps, about 1/50 ft. E. of
ford across creek, 1/5 ft. S. and 18 ft. W. from junction of rd. S.,
in root on E. side of 30-in. locust tree; copper nail and washer

St. Elizabeth, 1.7 mi. W. of, along rd. to Capp, 17 ft. N. and 5 ft. W.
from junction of private rd. NW., in root on S. side of 12-in. oak tree;
copper nail and washer

(For balance in Iberia quadrangle, see line 1.)

Capps, about 3 mi. W. of, along rd. to Tusculum, 25 ft. N. and 30 ft. W.
from junction of private lane, in concrete post; standard tablet
stamped "T T 153 B 1932"

Capps, 3.6 mi. W. of, along rd. to Tusculum, about 200 ft. N. of dwell­
ingen of Joseph Buhman, 15 ft. NE. of junction of private rd. SW., in
root on SW. side of 12-in. elm tree; copper nail and washer

Capps, 4.5 mi. W. of, along rd. to Tusculum, 300 ft. E. of junction of private rd. S. to dwelling of B. J. Leutkemeyer, 8 ft. N. of rd., on
center of N. concrete head wall of culvert; chiseled square

Capps, 5.4 mi. W. of, along rd. to Tusculum, about 400 ft. NW. of
dwelling of B. M. Tyler, 25 ft. SE. of SE. corner of barn, 30 ft. N.
of rd., in root on S. side of 12-in. oak tree; copper nail and washer

Tusculum, about 6.5 mi. E. of, along rd. to Capps, 110 ft. SE. of farm­
house of G. W. Edwards, 25 ft. E. of rd., in concrete post; standard
tablet stamped "T T 152 B 1932"

Reference mark, 2 ft. N. of post at SE. corner of yard, on concrete
copeing; chiseled square

Tusculum, 5.7 mi. E. of, along rd. to Capps, 60 ft. E. of junction of rd.
SE., 35 ft. E. of rail box, in root on N. side of triangular-blazed 18-in. hickory tree; copper nail and washer

(Continued in Iberia quadrangle; see line 1.)

2. FROM ELDON QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 52 INTO
IBERIA QUADRANGLE (by L. V. Johnson in 1932)
(Continued from Eldon quadrangle; see line 2.)

Tusculum, 3.8 mi. NW. of, 1 mi. E. of Halls store, about 300 ft. SE. of
dwelling of J. A. Harbison, 28 ft. S. of highway, in root on N. side of
twin walnut tree; copper nail and washer

Tusculum, 2.5 mi. NW. of, 30 ft. S. of junction of private rd. SW. to
farmhouse, 10 ft. SW. of mail box, on S. end of iron pipe-culvert;
chiseled cross

Tusculum, 1.9 mi. NW. of, 18 ft. N. and 18 ft. W. from junction of rd.
NW., 30 ft. W. of mail box of L. E. Admire, in concrete head wall of culvert; standard tablet stamped "28 J 1932"

(Continued in Iberia quadrangle; see line 3.)
3. FROM SEC. 29, T. 1/2 N., R. 1/4 W., EAST TO ETTERVILLE, THENCE SOUTH TO SEC. 33, T. 1/4 N., R. 1/4 W. (by J. H. Vinyard in 1934) *

Etterville, 1.5 mi. W. of, along U.S. Highway 54, opposite twin culverts under Chicago, Rock Island & Pacific Ry., on S. head wall of culvert; chiseled square 801.44

Etterville, 10 ft. W. of concrete walk to Christian Church, 1/4 ft. N. of NW. corner of Chicago, Rock Island & Pacific Ry. Sta., 26 ft. N. of S. 1/4 State Highway 54, 3 ft. E. of fence, in concrete post; standard tablet stamped "T T 1155 W 1934" 880.228

Reference mark, 100 ft. E. of tablet, at entrance to church, on walk; chiseled square 879.60

Etterville, 1 mi. S. of, in SW 1/4 sec. 28, T. 1/2 N., R. 1/4 W., at rd. fork, in 36-in. oak tree; copper nail and washer 917.46

Etterville, 3.1 mi. S. of, opposite entrance to farm of A. J. Schwaller, 2 ft. E. of entrance, in concrete post; standard tablet stamped "T T 1157 W 1934" 905.79

Etterville, 2 mi. S. and 0.5 mi. W. from, sixteenth cor. between secs. 4 and 5, T. 1/4 N., R. 1/4 W., 1/2 ft. N. of rd. fork NE., 11 ft. N. of Blazed 16-in. white-oak tree, in concrete post; standard tablet stamped "T T 1155 W 1934" 851.096

Reference mark, 10 ft. W. of tablet, in root of 24-in. oak tree; copper nail and washer 849.78

Etterville, 3.7 mi. S. of, in SW 1/4 sec. 1, T. 1/4 N., R. 1/4 W., in front of farmhouse at T-rd. E., in root of 15-in. locust tree; copper nail and washer 841.96

Etterville, 4.8 mi. S. of, in SW 1/4 sec. 9, T. 1/4 N., R. 1/4 W., 50 ft. W. of rd. corner, in wood pasture, in root of 10-in. hickory tree; copper nail and washer 823.89

Etterville, 5.5 mi. S. of, in NW 1/4 sec. 16, T. 1/4 N., R. 1/4 W., at entrance to church, in root of 15-in. white-oak tree; copper nail and washer 769.02

T. 1/4 N., R. 1/4 W., sixteenth cor. sec. 16, 30 ft. E. of rd. corner W.-S., 980 ft. N. of ford across Saline Creek, 600 ft. SE. of rd. forks, 12 ft. SE. of old State Highway 54, in concrete post; standard tablet stamped "T T 1156 W 1934" 605.541

Reference mark, 300 ft. W. of tablet, 20 ft. N. of rd., in root of 24-in. oak tree; copper nail and washer 606.68

T. 1/4 N., R. 1/4 W., near center sec. 21, about 0.4 mi. S. of spring at farmhouse, at top of steep hill on abandoned rd., in root of twin 36-in. black-oak tree; copper nail and washer 795.02

T. 1/4 N., R. 1/4 W., near cor. sec. 21, 22, 27, and 26, 0.7 mi. N. of farmhouse of William Kallenbach and Little Saline Creek rd., on top of ridge at intersection of fences, in root of 20-in. black-oak tree; copper nail and washer 855.39

T. 1/4 N., R. 1/4 W., in SW 1/4 sec. 27, at farmhouse of William Kallenback, in root of 18-in. elm tree; copper nail and washer 626.62

T. 1/4 N., R. 1/4 W., on line between secs. 28 and 29, 31 ft. N. of rd. forks, 6 ft. N. of Blazed 36-in. elm tree, in concrete post; standard tablet stamped "T T 1157 W 1934" 619.193

Reference mark, 6 ft. S. of tablet, in root of 36-in. elm tree; copper nail and washer 619.78

T. 1/4 N., R. 1/4 W., in SW 1/4 sec. 26, on top of ridge at private rd. W., E. of Blazed 26-in. black-oak tree; copper nail and washer 827.86

T. 1/4 N., R. 1/4 W., near center sec. 33, opposite T-rd. S., in root of 12-in. oak tree; copper nail and washer 657.66

4. FROM U.S. HIGHWAY 54 SOUTH ALONG STATE HIGHWAY 17 INTO IBERIA QUADRANGLE (single-run unchecked spur line by J. H. Vinyard in 1934) *

Eugene, 1.5 mi. N. of, E. of junction of U.S. Highway 54 and State Highway 17, near entrance to filling sta., on N. head wall of culvert; chiseled square 975.42

Eugene, 0.7 mi. N. of, 0.8 mi. S. of junction of U.S. Highway 54, 100 ft. W. of crossroad, on E. head wall of culvert; chiseled square 859.30

Eugene, at N. limits of, N. of rd. junction, on E. head wall of culvert; chiseled square 861.85

Eugene, 0.5 mi. S. of, 50 ft. S. of entrance to cemetery, at crossroad, in root of 21-in. black-oak tree; copper nail and washer 883.65


Reference mark, opposite tablet, on top of right-of-way post; chiseled square 875.742

Eugene, 2 mi. S. of, NE. of junction of rd. E., in corner fence post; crossed nails 862.10

Eugene, about 3 mi. S. of, at junction of rd. N., W. of rd., in fence line, in root of 10-in. oak tree; copper nail and washer 865.13

Eugene, about 3 mi. S. of, opposite rd. E., W. of highway, on top of right-of-way post; chiseled square 765.83

Eugene, 5.5 mi. SE. of, 12 ft. E. of NW. corner of farmyard of F. P. Buser, 1/3 ft. E. of highway, 67 ft. NW. of NW. corner of concrete fence post; standard tablet stamped "T T 1164 W 1934" 782.565

Tuscumbia, about 4.5 mi. N. of, at junction of rd. W., on W. head wall of culvert; chiseled square 565.11

* Elevations on this line are preliminary only and should be used with caution.
Tuscumbia, 4 mi. N. of, on S. end of W. curb of bridge over Saline Creek; chiseled square
Tuscumbia, 3 mi. N. of, at private entrance to field, on E. head wall of culvert; chiseled square
Tuscumbia, 1.9 mi. NE. of, about 0.2 mi. SE. of farmhouse, in upstream head wall of concrete culvert; standard tablet stamped "9T 1165 W 1931."

(Continued in Iberia quadrangle; see line 8.)

5. FROM META QUADRANGLE AT SEC. 16, T. 13 N., R. 12 W., WEST INTO CENTERTOWN QUADRANGLE AT SEC. 1, T. 13 N., R. 13 W. (by O. P. Hodgon in 1934)

(Continued from Meta quadrangle; see line 5.)

T. 13 N., R. 12 W., near center sec. 16, 1.1 mi. NW. of junction of Honey Creek and Tanner rds., on top of W. retaining wall of bridge over Honey Creek; chiseled square
Honey Creek Bridge, 1.1 mi. W. of, along Honey Creek rd., near center sec. 12, T. 13 N., R. 12 W., at entrance to dwelling of Paul Hager, in root on S. side of twin 36-in. white-oak tree; copper nail and washer
Jefferson City, 9.9 mi. SW. of, along U.S. Highway 54, 3 mi. NE. of Brazito, 37 ft. S. and 32 ft. E. from junction of rd. E., 32 ft. E. of gate, inside fence, in concrete post; standard tablet stamped "T 12 L 1931"
Reference mark, 127 ft. N. and 5 ft. (?) from tablet, in root on W. side of 26-in. red-oak tree; copper nail and washer
Pleasant Valley School, 0.2 mi. N. of, along U.S. Highway 54, 25 ft. W. of highway, on SE. corner of head wall of iron pipe culvert; chiseled square
 Junction of U.S. Highway 54 and Bratschi rd., 0.6 mi. NW. of, along Bratschi rd., 10 ft. N. of rd., in root on SE. side of 34-in. white-oak tree; nail
 Junction of U.S. Highway 54 and Bratschi rd., 1.4 mi. NW. of, along Bratschi rd., in SW 1/4 sec. 6, T. 13 N., R. 12 W., in root on NW. side of 25-in. post-oak tree; copper nail and washer
T. 13 N., R. 12 W., in NE 1/4 sec. 12, 15 ft. W. of rd., in root on E. side of 15-in. post-oak tree; copper nail and washer
T. 13 N., R. 13 W., quarter cor. between secs. 11 and 12, on Pleasant Hill rd., 80 ft. W. of rd. junction, on top of E. head wall of 12-in. iron pipe culvert; chiseled square
Reference mark, 30 ft. N. and 59 ft. W. from tablet, in N.-S. fence line, in root on S. side of post-oak tree; copper nail and washer
Pleasant Hill Baptist Church, 0.7 mi. NW. of, along Brazito-Lohman rd., 25 ft. NE. of rd., in root on S. side of 22-in. red-oak tree; copper nail and washer
T. 13 N., R. 13 W., in NE 1/4 sec. 10, on retaining wall at SW. corner of Taylor Bridge over South Moreau River; chiseled square

(Continued in Centertown quadrangle; see line 2.)

For additional level lines along Missouri Pacific R.R. and Chicago, Rock Island & Pacific R'y., refer to United States Coast and Geodetic Survey second-order lines, Mexico to Eldon and Eldon to Laoedie.
SPIRIT LEVELING IN MISSOURI

CENTERTOWN QUADRANGLE
(Latitude 38°30'-38°5'; longitude 92°15'-92°30')
Boone, Cole, and Montiteau Counties

1. FROM NEW BLOOMFIELD QUADRANGLE NORTH ALONG U.S. HIGHWAY 65 INTO
LUPUS QUADRANGLE (by L. V. Johnson in 1930; rerun by W. V.
Kennedy in 1957)
(Continued from New Bloomfield quadrangle; see line 2.)

Junction of rd. E., 20 ft. N. and 40 ft. E. from, in base of corner fence
post; spike
Claysville, 2.5 mi. N. of, 5.7 mi. S. of Ashland, 35 ft. N. and 90 ft. W.
from junction of rd. W., in concrete post; standard tablet stamped
"T T 3 0 1930" 831.28
Reference mark, 6 ft. NW. of tablet, in root on E. side of 6-in. maple
tree; copper nail and washer
Claysville, 3.5 mi. N. of, 4.7 mi. S. of Ashland, 10 ft. S. of junction
of private rd. W., 400 ft. N. of farmhouse, 40 ft. S. and 25 ft. W.
from highway at fence W., on S. concrete head wall of culvert; chiseled
square
Ashland, 3.9 mi. S. of, 10 ft. N. and 22 ft. W. from center of crossroad,
on N. concrete head wall of culvert; chiseled square
Oldham, 35 ft. N. and 45 ft. W. from crossroad, 153 ft. E. of store, in
concrete post; standard tablet stamped "T T 3 0 1930"
Reference mark, 12 ft. S. and 20 ft. W. from crossroad, on concrete head
wall of culvert; chiseled square
Oldham, 0.5 mi. N. of, at Christian School, 50 ft. S. and 20 ft. W. from
junction of rd. W., on concrete head wall of culvert; chiseled square
(Continued in Lupus quadrangle; see line 1.)

2. FROM EUGENE QUADRANGLE AT SEC. 4, T. 43 N., R. 13 W., NORTH TO
COUNTY ROUTE C, THEREAFTER WEST ALONG COUNTY ROUTE C TO COLE-
MONITEAU COUNTY LINE, THEREAFTER WEST ALONG ROADS INTO CALIFORNIA
QUADRANGLE AT SEC. 6, T. 43 N., R. 13 W. (by O. F. Hodgdon in
1954)
(Continued from Eugene quadrangle; see line 5.)

T. 43 N., R. 13 W., in SE 1/4 sec. 4, 24 ft. N. and 32 ft. W. from
junction of Lohman and Millbrook rds., on N. end of retaining wall;
chiseled square
Russellville, 4.2 mi. E. of, near center sec. 45, T. 44 N., R. 13 W.,
505 ft. S. of junction of Millbrook rd., W. of rd., on S. wing wall
of culvert; chiseled square
Russellville, 4.4 mi. E. of, 410 ft. W. of Lohman rd., 255 ft. W. of fill-
ing sta., N. of highway, in root on S. side of 18-in. white-oak tree;
copper nail and washer
Russellville, 3.5 mi. E. of, 75 ft. S. of rd. junction, 2 ft. from
boundary fence of property of Henry Scott, in concrete post; U.S.C.
& G.S. and State Survey standard tablet

Foot
831.28
830.21
802.73
894.59
832.62
867.71
626.48
705.256
704.78
765.07
811.22
877.378
876.94
884.647
PART 7, CENTRAL MISSOURI, 1896-1938

Russellville, 2.1 mi. E. of, 275 ft. W. of dwelling of Oscar Hemling, 60 ft. N. of highway, in root on S. side of 30-in. white-oak tree; nail and washer

Russellville, 1.3 mi. E. of, 105 ft. N. of highway, in SE. corner of chicken yard, in W. side of 12-in. catalpa tree; nail and washer

Russellville, 0.8 mi. E. of, 155 ft. E. of barn, 85 ft. W. of dwelling, 65 ft. N. of highway, in root on S. side of 30-in. elm tree; nail and washer


Russellville, 2.5 mi. W. of, in NE 1/4 sec. 5, T. 13 N., R. 14 W., 12 ft. N. of Russellville rd. 27 ft. S. and 24 ft. E. from gate to cemetery, in root of 36-in. locust tree; nails


(Continued in California quadrangle; see line 8.)

3. FROM EUGENE QUADRANGLE NORTHEAST ALONG U.S. HIGHWAY 50 INTO NEW BLOOMFIELD QUADRANGLE (by C. E. Hodgdon in 1931.)

Kernschleld filling sta., 0.7 mi. NE. of, on concrete abutment of SE. corner of bridge J-16; chiseled square

(Continued in New Bloomfield quadrangle; see line 5.)


Reference mark, 10 ft. W. and 10 ft. W. from tablet, on top of E. concrete head wall of pipe culvert; chiseled square

T. 14 N., R. 14 W., near quarter cor., between secs. 5 and 6, 20 ft. E. of rd., in root on W. side of 18-in. maple tree; copper nail and washer

Winkey Branch, 480 ft. S. of, on NW. corner of W. partition wall of concrete culvert; chiseled square

T. 14 N., R. 14 W., in SE 1/4 sec. 7, 75 ft. S. and 20 ft. W. from junction of California-Russellville and Seibert Lane rds., in root on S. side of 15-in. post-oak tree; copper nail and washer

T. 14 N., R. 14 W., in NE 1/4 sec. 16, 0.3 mi. S. of junction of California-Russellville and Lammert ford rds., 15 ft. W. of rd., in root on N. side of 26-in. post-oak tree; copper nail and washer


Reference mark, 50 ft. N. and 25 ft. W. from tablet, in 15-in. post-oak tree; copper nail and washer

(For balance in California quadrangle, see line 7.)

T. 14 N., R. 14 W., in SE 1/4 sec. 30, on S. bank of Moreau River, 100 ft. S. and 25 ft. W. from Lammert ford, in root on S. side of 40-in. burr-oak tree; copper nail and washer

T. 14 N., R. 14 W., in NE 1/4 sec. 30, 0.7 mi. SE. of Lammert ford, 30 ft. S. of SE. corner of farmhouse of S. V. Amos, 25 ft. N. of rd., in root on S. side of 16-in. post-oak tree; copper nail and washer


T. 14 N., R. 14 W., in NW 1/4 sec. 32, 1.5 mi. SE. of Lammert ford, 30 ft. NW. of T-rd., in root on E. side of 22-in. post-oak tree; nails

Von Pool Branch, 1 mi. SE. of, along Lammert ford rd., in sec. 32, T. 14 N., R. 14 W., in root on SE. side of 22-in. blackjack-oak tree; copper nail and washer

(Continued from California quadrangle; see line 5.)

T. 14 N., R. 14 W., near center sec. 19, on old Marion rd., at rd. junction, near SW. corner of cemetery, in 12-in. stump of cedar tree; lead-headed nail


(Continued from California quadrangle; see line 5.)

T. 14 N., R. 14 W., 3 ml. E. of, 40 ft. N. of highway, in SW. corner of cemetery, in 12-in. stump of oak tree; lead-headed nail

852.72
SPIRIT LEVELING IN MISSOURI

California, 1 ml. N. and 3.5 ml. E. from, in E 1/2 sec. 19, T. 45 N., R. 14 W., at junction of 036 Marion rd. and rd. E., in sandstone ledge; standard tablet stamped "T T 31 C W A 1931."

T. 45 N., R. 14 W., in sec. 10, 0.5 ft. W. of Little Monteau Creek, in root on E. side of 32-in. elm tree; lead-headed nail

T. 45 N., R. 14 W., in center of sec. 7, 25 ft. NW. of Eldorado School, on SW. corner of flagpole base; chiseled square

T. 45 N., R. 14 W., in SE 1/4 sec. 6, 0.5 ft. E. of rd. forks, 6 ft. E. of 12-in. white-oak tree, in concrete post; standard tablet stamped "2k C W A 1931."

(Continued in California quadrangle; see line 5.)

T. 46 N., R. 14 W., near line between secs. 19 and 30, at State Highway 67 bridge over Monteau River, in NW. concrete wing wall; standard tablet

T. 46 N., R. 14 W., in E 1/2 sec. 19, 0.5 ml. N. of Monteau River, E. of State Highway 67, on SW. corner of well top; chiseled cross

T. 46 N., R. 14 W., near line between secs. 17 and 18, on State Highway 67, about 60 ft. NW. of 30-in. white-oak tree, on E. end of small culvert; chiseled square

(Continued in Lupus quadrangle; see line 9.)

For additional level lines along south bank of Missouri River and Missouri Pacific R.R., refer to United States Coast and Geodetic Survey first-order lines, Jefferson City to Kansas City and Jefferson City to Pleasant Hill; and second-order line, Mexico to Eldon.

LUPUS QUADRANGLE

(Latitude 38°45'-39°00'; longitude 92°15'-92°30')

Boone and Moniteau Counties

1. FROM CENTERTOWN QUADRANGLE NORTH ALONG U.S. HIGHWAY 63 TO COLUMBIA, THENESE WEST ALONG U.S. HIGHWAY 60 TO SIXTON ROAD, THENESE NORTH AND WEST ALONG SIXTON ROAD TO SEC. 5, T. 43 N., R. 12 W., THENESE WEST ALONG U.S. HIGHWAY 60 TO SEC. 4, T. 45 N., R. 12 W., THENESE NORTH ALONG ROADS INTO STURGUS QUADRANGLE AT SEC. 34, T. 49 N., R. 14 W. (by L. V. Johnson in 1930; that portion south of Ashland rerun by W. V. Kennedy in 1937)

(Continued from Centertown quadrangle; see line 1.)

Ashland, 1.3 ml. S. of, 20 ft. N. and 20 ft. W. from junction of rd. W., 20 ft. SE. of SE. corner of cattle pen, on N. concrete head wall of culvert; chiseled square 864.19

Ashland, 1.1 ml. S. of, 5 ft. N. and 20 ft. W. from junction of rd. E., on S. end of concrete head wall of culvert; chiseled square 885.70

Ashland, 0.5 ml. S. of, 12 ft. N. and 20 ft. W. from junction of rd. W., on N. concrete head wall of culvert; chiseled square 889.10

Ashland, in yard of Baptist Church, 0 ft. S. and 20 ft. E. from front concrete head wall of culvert; chiseled square 905.36

Reference mark, 900 ft. E. of tablet, 50 ft. N. and 20 ft. E. from junction of main street, at private rd. to dwelling, on SW. concrete head wall of culvert; chiseled square 905.86

Ashland, 1.3 ml. N. of, 12 ft. N. and 25 ft. E. from junction of rd. E., 2 ft. E. of stop sign, on W. end of N. concrete head wall of culvert; chiseled square 898.32

Ashland, 1.7 ml. N. of, about 1000 ft. SE. of New Salem Church, 15 ft. N. and 30 ft. E. from junction of rd. E., on E. end of N. concrete head wall of culvert; chiseled square 870.55

Reference mark, 160 ft. S. of W. of highway, on N. end of W. head wall of concrete culvert; chiseled square

(For balance in Millersburg quadrangle, see line 2.)

Columbia, 1.6 mi. SE. of junction of U.S. Highway 40, 10 ft. S. and 100 ft. E. from junction of rd. E., on S. concrete head wall of culvert; chiseled square

Reference mark, 57 ft. N. of corner fence post, in concrete post; standard tablet stamped "1 J 1930" 859.092

Columbia, 3.9 mi. SE. of E. Junction of U.S. Highway 14, at Grindstone School, 56 ft. N. and 65 ft. E. from crossroad, in concrete post; standard tablet stamped "T 18 C 1930"

Reference mark, on S. end of concrete culvert under rd. W. to schoolyard; chiseled square

Columbia, 2.7 mi. SE. of E. junction of U.S. Highway 40, at NW. corner of concrete bridge over Grindstone Creek, on concrete abutment; chiseled square

Columbia, 1.6 mi. SE. of junction of U.S. Highway 40, at top of hill, 15 ft. S. and 35 ft. E. from private crossroad, 6 ft. S. of gatepost; on concrete base of iron brace; chiseled square

Columbia, at E. edge of junction of E. and W. Broadway, in root on S. side of 28-in. maple tree; copper nail and washer 749.92

Columbia, 15 ft. N. of junction of U.S. Highways 40 and 63, in concrete post; standard tablet stamped "T 19 C 1930"

Reference mark, 8 ft. W. of tablet, on concrete curb; chiseled square

Columbia, 25 ft. S. and 7 ft. W. from W. junction of U.S. Highways 40 and 63, on N. side of transmission-line pole, on second concrete step of walk around pole; chiseled square

Columbia, near NW. edge of, 35 ft. N. and 12 ft. W. from junction of North Earth Avenue, N. of highway opposite service sta., 1 ft. S. of corner fence post, on concrete right-of-way post; chiseled square

Columbia, at NW. edge of, S. of highway opposite grocery store of G. L. Nelloway, 27 ft. S. and 70 ft. E. from junction of rd NW., 22 ft. NW. of corner of Cozy Cafe, on W. end of concrete culvert; chiseled square

Columbia, 0.5 mi. W. of junction of U.S. Highway 40 and Sexton Road, 25 ft. S. and 100 ft. W. from junction of rd W., on E. side of yard of Alex Hicks, in concrete post; standard tablet stamped "T 20 C 1930"

Reference mark, about 50 ft. S. of tablet, 2 ft. E. of gate, on concrete walk; chiseled square

Columbia, 1.1 mi. NW. of junction of U.S. Highway 40 and Sexton Road, 15 ft. E. of junction of rd. N., 150 ft. S. of stucco farmhouse, 7 ft. S. of E.-W. fence line, in root on S. side of 12-in. tree; copper nail and washer 759.12

Columbia, 1.6 mi. NW. of junction of U.S. Highway 40 and Sexton Road, 200 ft. NE. (9 NW.) of crossroad, 25 ft. N. of rd., in fence line, in root on S. side of 18-in. walnut tree; copper nail and washer 753.63

Tpa. 19 and 29 N., R. 13 W., near cor. secs. 4, 9, 16, and 34, 110 ft. W. of rd. junction, 13 ft. S. of E.-W. rd., on E. end of concrete head wall of culvert; chiseled square

Reference mark posted "Prim Trav Sta No 6 Mo 1912" 599.891

Reference mark, 25 ft. N. and 35 ft. W. from W. end of bridge, in knot on E. side of 12-in. elm tree; copper nail and washer 754.33

Tpa. 10 and 19 N., R. 13 W., cor. secs. 20, 29, 32, and 33, 15 ft. S. and 40 ft. E. from T-Rd. S., 100 ft. W. of bridge over creek, 5 ft. E. of corner stone; chiseled square on top of corner stone; standard tablet stamped "C 1930"

Tpa. 19, R. 13 W., quarter cor. between secs. 29 and 32, 18 ft. S. and 28 ft. W. from T-Rd. S., 140 ft. N. of farmhouse, 4 ft. S. of W. post of gate to farmyard, in root on E. side of 30-in. elm tree; copper nail and washer 749.10

Tpa. 18 and 19 N., R. 13 W., near quarter cor. between secs. 5 and 32, Tpa. 18, R. 13 W., farmhouse, 25 ft. S. of rd., in root on N. side of 20-in. maple tree; copper nail and washer 591.51

Midway, 2.2 mi. E. of, 185 ft. N. and 16 ft. W. from junction of rd. N., 7 ft. W. of corner fence post, in concrete post; standard tablet stamped "1 J 1930" 585.187

Ashland, about 2.5 mi. N. of, near quarter cor. between secs. 35 and 35, T. 47 N., R. 12 W., 25 ft. S. and 35 ft. W. from crossroad, in concrete post; standard tablet stamped "T T 15 C 1930"

Reference mark, 160 ft. S. of W. of highway, on N. end of W. head wall of concrete culvert; chiseled square
Reference mark, 38 ft. N. of corner fence post, in root on NW. side of twin oak tree; copper nail and washer 581.65
Midway, 1.6 mi. N. of, 20 ft. N. and 18 ft. W. from crossroad, 4 ft. SW. of stop sign, on E. end of N. concrete head wall of culvert; chiseled square 593.15
Midway, 0.7 mi. E. of, 22 ft. N. and 3 ft. E. from junction of private rd. N., 7 ft. NW. of mailbox of H. Wood, on E. concrete head wall of culvert; chiseled square 629.65
Midway, about 150 ft. SE. of SE. corner of Henderson Cafe, 39 ft. S. and 22 ft. E. from junction of rd. S., 5 ft. S. of corner fence post, in concrete post; standard tablet stamped "82 J 1930" 651.521
Reference mark, SE. of junction of rd. S., on concrete head wall of culvert; chiseled square 651.65
Midway, 1 mi. W. of, 12 ft. SW. of S. end of sidewalk in front of dwelling of R. S. Wilhite, 20 ft. N. of highway, on W. concrete head wall of culvert; chiseled square 779.70
Midway, 1.6 mi. E. of, 23 ft. S. and 150 ft. W. from junction of rd. N., 21 ft. S. and 10 ft. W. from junction of rd. S., on W. concrete head wall of concrete culvert; chiseled square 776.69
Midway, 2.5 mi. W. of, cor. secs. 4, 25, 33, and 34, Tps. 48 and 49 N., R. 13 W., W. of U.S. Highway 63 at rd. E., in concrete post; standard tablet stamped "3 J 1930" 785.112
Reference mark, NE. of crossroad, on N. end of concrete culvert; chiseled square 787.54

(Continued in Sturgeon quadrangle; see line 7.)

2. FROM COLUMBIA NORTHEAST ALONG WABASH RAILWAY INTO STURGEON QUADRANGLE (by J. H. Vinyard in 1933)

Columbia, at water and light plant on S. side of Moore Boulevard (U.S. Highway 40) on top of N. bolt of hydrant; chiseled cross 755.80
Columbia, at junction of U.S. Highway 40, on SW. corner of W. side of N. bridge abutment; chiseled cross 782.92
Columbia, 1 mi. N. of, at SE. corner of service sta., on SE. corner of pipe footing; chiseled square 798.86
Persinger, 30 ft. W. of, in concrete corner post; top of bolt 805.50

(Continued in Sturgeon quadrangle; see line 8.)


T. 49 N., R. 13 W., about 0.2 mi. E. of N. cor. secs. 33 and 34, at bridge over Rockey Ford Creek, at SE. end of upstream girdier over pier; top of rivet (surrounded by chiseled square) 601.34

(For balance in Sturgeon quadrangle, see line 9.)

Reference mark, 60 ft. E. of tablet, on W. end of N. head wall of culvert under side rd.; chiseled square 737.23
T. 49 N., R. 12 W., near cor. secs. 29, 30, 31, and 32, at junction of rd. W., 50 ft. W. of Oakland rd., in root of 8-18 ft. elm tree; copper nail and washer 705.09
T. 49 N., R. 12 W., 0.2 mi. N. of S. cor. secs. 31 and 32, 0.6 mi. N. of Wabash Ry., on Oakland rd., on NE. wing wall of bridge; chiseled square 725.29
Columbia, 1 mi. NE. of, along Wabash Ry., near S. line sec. 32, T. 49 N., R. 12 W., at rd. crossing, in NE. fence corner, in concrete post; standard tablet 791.91
Reference mark, 125 ft. SW. of tablet, in root on NW. side of 30-in. elm tree; copper nail and washer 791.60
T. 49 N., R. 12 W., in SW 1/4 sec. 33, on old Mexico rd., on SW. wing wall of bridge over Hinkson Creek; chiseled square 691.16
T. 49 N., R. 12 W., quarter cor. between secs. 33 and 34, 100 ft. E. of crossroad, N. of rd., in root of 60-in. black-oak tree; copper nail and washer 794.18
T. 49 N., R. 12 W., center sec. 34, 150 ft. W. of Tar-Rd. N., in root of ash tree; copper nail and washer 824.13

4. FROM COLUMBIA EAST ALONG U.S. HIGHWAY 40 INTO MILLERSBURG QUADRANGLE (by J. H. Vinyard in 1934)

Columbia, 1 mi. E. of, SW. of highway, on NW. wing wall of bridge over Hinkson Creek; chiseled square 685.24
Columbia, 2 mi. E. of, at private crossroad, in root of 30-in. black-oak tree; copper nail and washer 780.26
Columbia, 3.1 mi. E. of, at Lake of The Woods Tourist Camp, 70 ft. N. and 30 ft. E. from crossroad, in concrete post; standard tablet stamped "5 T 24 C 1930" 839.085
Reference mark, 75 ft. SW. of tablet, on concrete foundation of E. gasoline pump of Lake of The Woods service sta.; chiseled square 835.27

(Continued in Millersburg quadrangle; see line 4.)
5. FROM MILLERSBURG QUADRANGLE AT SEC. 22, T. 14 N., R. 12 W., SOUTH TO POINT 0.5 MILE NORTH OF DEER PARK (by J. H. Vinyard in 1934)

(Continued from Millersburg quadrangle; see line 5.)

Columbia, 4.5 mi. SE. of, on Fulton Gravel Road, at Carlisle School, 27 ft. S. and 15 ft. E. from junction of rd. S., in concrete post; standard tablet stamped "T T 23 C 1930"
Reference mark, 100 ft. W. of tablet, S. of rd., in root of twin elm tree; nail
Reference mark, 100 ft. W. of tablet, W. of crossroads; on SW. corner of S. head wall of culvert; chiseled square
T. 14 N., R. 12 W., 0.2 mi. S. of quarter cor. between secs. 27 and 34, on top of N. end of bridge over canoe Creek; chiseled square
771.56
T. 14 N., R. 12 W., N. sixteenth cor. sec. 3, 0.3 mi. E. of Miller's service sta. on U.S. Highway 63, at T-rd. W., in root of 36-in. locust tree; staples
Columbia, 5 mi. SE. of, on U.S. Highway 63, on N. wing wall of bridge over Bonne Femme Creek; chiseled square
Deer Park, 0.5 mi. N. of, on U.S. Highway 63, at entrance to brick school; standard tablet; reference mark, at junction of rd. W., on N. head wall of culvert; chiseled square
877.82

6. FROM SEC. 10, T. 14 N., R. 12 W., WEST TO SEC. 9, T. 14 N., R. 13 W., THENCE NORTH TO COLUMBIA (by J. H. Vinyard in 1934)

T. 14 N., R. 12 W., 0.1 mi. W. of quarter cor. between secs. 9 and 10, 1.1 mi. W. of U.S. Highway 65, on anchor angle at E. end of S. truss of bridge over Bonne Femme Creek; top of middle rivet
T. 14 N., R. 12 W., 0.2 mi. E. of quarter cor. between secs. 8 and 9, 1.8 mi. W. of U.S. Highway 65, in front of farmhouse of T. C. Honsley, in root of 36-in. twin elm tree; nail
Pierpoint, 0.7 mi. E. of, 125 ft. N. of Lakeview School, 57 ft. S. of T-rd. N., in concrete post; standard tablet stamped "T T 25 C 1930"
Reference mark, on curb on top step at W. entrance to school; (mark not described)
800.54
Pierpoint, near quarter cor. between secs. 7 and 18, T. 14 N., R. 12 W., SE. of rd. forks, in root of 24-in. black-oak tree; nail
Pierpoint, 0.8 mi. SW. of, in NW 1/4 sec. 18, T. 14 N., R. 12 W., 60 ft. W. of T-rd. W., in fence line N. of rd., in root of 24-in. black-oak tree; nails
T. 14 N., R. 13 W., 225 ft. E. of quarter cor. between secs. 13 and 14, 1.6 mi. W. of Pierpoint, 15 ft. S. and 15 ft. E. from rd. cor., in concrete post; standard tablet stamped "T T 26 C 1930"
Reference mark, 20 ft. E. of tablet, in root of 24-in. walnut tree; staples
742.259
T. 14 N., R. 13 W., near W. sixteenth cor. sec. 14, at top of hill, at gatepost at entrance to farm of T. E. Atkins, in root of 10-in. walnut tree; staples
742.10
T. 14 N., R. 13 W., 0.1 mi. W. of Center sec. 14, at T-rd. N., at SW. corner of barn of J. W. Samuel, on top of corner of foundation stone; (mark not described)
585.30
Columbia, 6.5 mi. SW. of, on County Route K, at crossroad, on N. wing wall of bridge; chiseled square
Columbia, 5 mi. S. and 3 mi. W. from, 80 ft. N. and 35 ft. E. from junction of three rds., 25 ft. W. of entrance to Union Church Cemetery, in concrete post; standard tablet stamped "T T 22 C 1930"
Reference mark, 15 ft. S. of tablet, in root of 40-in. locust tree; copper nail and washer
673.125
T. 14 N., R. 13 W., about 0.1 mi. N. of center sec. 10, 50 ft. N. of County Route K at rd. S., in root of 10-in. hackberry tree; copper nail and washer
611.89
Columbia, 6.5 mi. SW. of, on County Route K, at crossroad, on N. wing wall of bridge; chiseled square
599.06
Pierpoint, 5 mi. S. and 3 mi. W. from, 80 ft. N. and 35 ft. E. from junction of three rds., 25 ft. W. of entrance to Union Church Cemetery, in concrete post; standard tablet stamped "T T 22 C 1930"
Reference mark, 15 ft. S. of tablet, in root of 40-in. locust tree; copper nail and washer
672.21
T. 14 N., R. 13 W., near Center sec. 3, S. of rd. corner, in root of 12-in. elm tree; copper nail and washer
670.41
T. 14 N., R. 13 W., in S 1/2 sec. 34, 15 ft. W. of concrete spillway, 4 ft. SE. of twin 30-in. elm trees, on outcrop of rock; chiseled square
T. 14 N., R. 13 W., quarter cor. sec. 34, 300 ft. S. of crossroads, E. of rd., in root of 48-in. oak tree; copper nail and washer
636.60
T. 14 N., R. 13 W., in N 1/2 sec. 27, 50 ft. W. of point of Limerick sta. switch, 40 ft. N. and 45 ft. E. from Missouri-Kansas-Texas R.R. at abandoned rd. crossing, in concrete post; standard tablet stamped "T T 21 C 1930"
Reference mark, on S. head wall of culvert under R.R.; chiseled square
601.96
597.12
717.46
Columbia, at NW. corner of intersection of West Broadway and West Boulevard, on N. end of curved curb; chiseled square
760.70
SPIRIT LEVELING IN MISSOURI

7. FROM BOONVILLE QUADRANGLE AT SEC. 51, T. 14 N., R. 14 W., SOUTHEAST TO LUPUS (by J. H. Vining in 1934)
(Continued from Boonville quadrangle; see line 3.)

Lupus, 2.5 mi. NW. of, in SE 1/4 sec. 51, T. 14 N., R. 14 W., about 60 ft. W. of joel in rd., in field, in root of 15-in. oak tree; copper nail and washer

Mount Vernon triangulation sta.; Missouri River Commission iron post
U.S.C.E. B.M. designated "127-36/2"
Copper bolt
Top of cap

8. FROM POINT ABOUT 1 MILE WEST OF McBAINE NORTHEAST ALONG MISSOURI-KANSAS-Texas RAILROAD (Columbia Branch) TO COLUMBIA (by R. G. McClain in 1954)

U.S.C.E. B.M. designated "129"
Copper bolt
Top of cap
McBeain, 1 mi. W. of, on rd. to Huntsdale, at T-rd., in yard of Starr School, on concrete flagpole base; monel metal rivet
McBeain, 0.2 mi. NW. of, at junction of main line and Columbia Branch of Missouri-Kansas-Texas R.R., on S. end of SE. side of concrete culvert, in concrete post; monel metal square; monel metal rivet
Brushwood, about 300 ft. S. of, in SW. corner of abutment of bridge over Perche Creek, inside bridge spanners; on top of large bolt on side of saddle; chiseled cross
Turners, 0.2 mi. SW. of, on SE. corner inside of SE. corner of SW. abutment of bridge over Hinkson Creek, in expansion slot; top of bolt
Sheppard, 0.2 mi. S. of, on SE. corner of N. abutment, inside of spanner beams, on top of rivet; chiseled cross
Limerick, 0.2 mi. N. of, W. of R.R., on drain tile, in chiseled cross
Columbia, at Stewart Bridge, W. of spur line to powerhouse of University of Missouri, at SE. corner of bridge footing, on top of bolt; chiseled cross
Columbia, at University of Missouri, just N. of entrance on E. side of College of Engineering Building, on water table; (mark not described)

9. FROM CENTERTOWN QUADRANGLE NORTH ALONG STATE HIGHWAY 87 TO JAMESTOWN, THENCE WEST ALONG ROADS INTO BOONVILLE QUADRANGLE AT SEC. 6, T. 14 N., R. 14 W. (by A. L. Detweiler in 1934)
(Continued from Centertown quadrangle; see line 5.)

T. 14 N., R. 14 W., in E 1/2 sec. 8, 300 ft. S. of rd. junction, on E. School of culvert; chiseled square
Jamestown, at S. side of, 20 ft. E. of church, on SE. corner of entrance walk; chiseled square

(Collected in Boonville quadrangle; see line 6.)

10. FROM LUPUS SOUTHWEST AND SOUTH ALONG COUNTY ROUTE P AND STATE HIGHWAY 87 TO JAMESTOWN, THENCE EAST ALONG COUNTY ROUTE A TO SANDYHOOK, THENCE NORTH ALONG MISSOURI PACIFIC RAILROAD TO LUPUS (by Charles E. Hunter in 1937)

Lupus, 0.4 mi. SW. of, 15 ft. N. and 100 ft. W. from junction of rd. W., in root on SE. side of 10-in. elm tree; crossed nails
Lupus, about 1 mi. SW. of, near line between secs. 8 and 9, T. 14 N., R. 14 W., 35 ft. S. of highway, in root on N. side of 30-in. oak tree; copper nail and washer
Lupus, about 1.9 mi. SW. of, near line between secs. 8 and 17, T. 14 N., R. 14 W., 15 ft. S. and 20 ft. E. from junction of rd. W., in root on W. side of 20-in. oak tree; copper nail and washer
Lupus, about 3.3 mi. SW. of, W. sixteenth cor. between secs. 18 and 19, T. 14 N., R. 14 W., 20 ft. S. and 15 ft. W. from rd. corner N.-W., 20 ft. N. and 200 ft. W. from junction of rd. E., in root on W. side of 10-in. oak tree; copper nail and washer

(Fort balance in Boonville quadrangle, see line 8.)

Jamestown, 0.5 mi. SE. of, 45 ft. S. and 20 ft. E. from rd. junction, in root on SE. side of 20-in. elm tree; copper nail and washer
Jamestown, 1.6 mi. E. of, 20 ft. S. and 8 ft. E. from junction of rd. N., on E. end of iron pipe culvert; painted square
Jamestown, 2.5 mi. E. of, at top of hill, in yard of Mary Gatschel, 9 ft. SE. (NW. 1) of right-of-way post, in concrete post; standard tablet stamped "T 9 L 2 1956"
PART 7, CENTRAL MISSOURI, 1896-1938

T. 14 N., R. 12 W., near line between secs. 10 and 11, 12 ft. N. and 18 ft. W. from junction of rd. S., on W. end of iron pipe culvert; painted square

T. 14 N., R. 12 W., in sec. 11, 20 ft. S. of junction of rd. N., in root on E. side of 10-in. hickory tree; copper nail and washer Sandyhook, at N. edge of, 60 ft. N. and 20 ft. E. from highway at street E., in root on S. side of 60-in. sycamore tree; copper nail and washer Sandyhook, about 1 mi. N. of, on NE. corner of concrete base of signal box; chiseled square Fisher triangulation sta.; Missouri River Commission iron post designated "Fisher triangulation sta."

Private rd. crossing, 285 ft. S. of, E. of R.R., on SW. corner of concrete base of semaphore 1475; chiseled square Sandyhook, about 2.8 mi. N. of, at milepole 146.20, W. of R.R., on NE. corner of concrete base of semaphore control box; chiseled square Sandyhook, about 2.8 mi. N. of, about 525 ft. N. of rd. crossing, E. of R.R., on SW. corner of concrete base of semaphore 1475; chiseled square Lupus, about 2.8 mi. S.E. of, at rd. crossing, in W. end of S. abutment of wooden trestle 24; copper nail and washer Lupus, about 2 mi. S.E. of, NE. of R.R., on S. corner of concrete base of semaphore 1491; chiseled square Lupus, 1.14 mi. S.E. of, W. of R.R., on E. corner of concrete base of semaphore control box; chiseled square Lupus, about 0.6 mi. S.E. of, E. of R.R., on S. corner of concrete base of semaphore 1507; chiseled square


(Continued in Millersburg quadrangle; see line 6.)

For additional level lines along Missouri River, U.S. Highway 40, and Wabash Ry., refer to United States Coast and Geodetic Survey first-order line, Jefferson City to Kansas City; and second-order line, Lupus to Centralia.
SPIRIT LEVELING IN MISSOURI

STURGEON QUADRANGLE
(Latitude 39°00'–39°15'; longitude 92°15'–92°30')
Audrain, Boone, Howard, and Randolph Counties

Woodlandville, 0.3 mi. SW. of, in NW 1/4 sec. 10, T. 49 N., R. 11 W., E. of rd., 2 ft. W. of fence opposite T-rd. W.; iron post stamped "8122" 810.526

Woodlandville, 1.2 mi. N. of, near S. quarter cor. sec. 34, T. 50 N., R. 11 W., 120 ft. NW. of Richland School, NW. of T-rd. W., in root of oak tree; copper nail 817.95

Harrilsburg, 1.4 mi. S. of, near center sec. 34, T. 50 N., R. 11 W., NW. of crossroads, in root of 24-in. oak tree; copper nail 806.03

Harrilsburg, 3.1 mi. S. of, near center sec. 27, T. 50 N., R. 11 W., 75 ft. S. of SW. corner of crossroads; iron post stamped "738" 796.531


Harrilsburg, 2.4 ft. S. and 10 ft. W. from SW. corner of school; iron post stamped "Prim Trav Sta No 9 1912 Mo 811.8" 811.863

Harrilsburg, 0.7 mi. N. of, at rd. fork W.; surface of rd. 829.1

Harrilsburg, 1.2 mi. N. of, on line between secs. 2 and 3, T. 51 N., R. 11 W., 0.2 mi. N. of rd. corner, E. of rd., in root of 15-in. oak tree; copper nail 811.10

Minnie, 1.7 mi. SW. of, at rd. corner S.-E., in front of log dwelling, in root of 15-in. oak tree; copper nail 837.50

Minnie, 0.8 mi. SW. of, at rd. forks; surface of rd. 813.5

Minnie, 0.2 mi. N. of, near Boone-Howard county line, 25 ft. NW. of rd. forks; iron post stamped "814.8" 814.775

Minnie, 0.6 mi. N. of, at rd. forks; surface of rd. 890.4


Bridge over Coon Creek; surface of floor 755.2

Pereche Church, 0.5 mi. W. of, at T-rd. N.; surface of rd. 806.7

T. 51 N., R. 11 W., near line between secs. 13 and 24, at rd. corner S.-W., in root of 10-in. oak tree; copper nail 806.36

T. 51 N., R. 11 W., E. sixteenth cor. between secs. 12 and 13; corner stone 789.53

T. 51 N., R. 11 W., in SE 1/4 sec. 12, 100 ft. S. of T-rd. S., E. of rd.; iron post stamped "847" 846.926

Rucker, 0.4 mi. W. of, at rd. fork NW.; surface of rd. 726.7

Rucker, 0.2 mi. W. of, at bridge over Pereche Creek; surface of floor 722.9

Naylor School, 0.5 mi. S. of, in SE 1/4 sec. 11, T. 51 N., R. 11 W., at E. end of large triangle formed by rd. forks, in root of 12-in. oak tree; copper nail 862.01

Naylor School, 1.8 mi. SW. of, in SE 1/4 sec. 15, T. 51 N., R. 11 W., in large triangle formed by rd. forks, in root of 12-in. black-oak tree; copper nail 816.67

T. 51 N., R. 11 W., in NW 1/4 sec. 16, 130 ft. NW. of bridge over Moniteau Creek, N. of rd.; iron post stamped "695" 694.550


T. 50 N., R. 12 W., in SE 1/4 sec. 18, 300 ft. NE. of Middletown School, 75 ft. W. of T-rd. S., S. of rd.; iron post stamped "827" 826.122

T. 50 N., Rs. 12 and 15 W., approximate quarter cor. between secs. 13 and 16, N. of rd.; in root of 20-in. hickory tree; copper nail 791.95

T. 50 N., R. 13 W., cor. secs. 16, 18, 23, and 24, 1/4 ft. N. of crossroads, in root of 24-in. elm tree; copper nail 687.74

T. 50 N., R. 13 W., in S 3 1/2 sec. 15, 30 ft. S. of rd. forks N., E., and SW.; iron post stamped "832" 830.504

T. 50 N., R. 13 W., in NE 1/4 sec. 21, 150 ft. E. of crossroads, N. of 12-in. hickory tree; copper nail 789.09

Dripping Springs Church, 2 1/2 mi. N. of, 200 ft. S. of dwelling of James E. Barnes, W. of rd., 7 ft. E. of fence, in root of 18-in. hickory tree; copper nail 733.46

Dripping Springs Church, 1 mi. N. of, 500 ft. E. of rd.; surface of floor 895.18

T. 50 N., R. 13 W., in NW 1/4 sec. 34, about 800 ft. E. of Dripping Springs Church, E. of N.-S. rd., near fence; iron post stamped "Prim Trev Sta No 8 1912 Mo" 663.396

Dripping Springs Church, 1 mi. S. of, 40 ft. W. of T-rd. E., in root of twin oak tree; copper nail 785.50

Dripping Springs Church, 1 1/2 mi. S. of, near center sec. 3, T. 49 N., R. 13 W., 65 ft. E. of T-rd. E., in root of 24-in. oak tree; copper nail 767.19


(Continued from Moberly quadrangle; see line 1.)

Rucker, 1/2 mi. N. of, 50 ft. N. of T-rd. E., N. of dwelling, W. of rd., in root of 15-in. oak tree; copper nail 851.05

Rucker, 0.8 mi. N. of, at rd. fork E.; surface of rd. 852.9

Rucker, 0.6 mi. E. of, 75 ft. E. of and Sons Store, 40 ft. N. of dwelling, in root of 12-in. hickory tree; copper nail 808.17

Rucker, 0.3 mi. E. of, at bridge over Sugar Creek; surface of floor 748.2

Rucker, 0.3 mi. E. of, at private rd. SW., N. of rd.; in root of 12-in. oak tree; copper nail 839.09

T. 51 N., R. 13 W., in SW 1/4 sec. 4, T-rd. S.; surface of rd. 844.6

T. 51 N., R. 13 W., in E 1/2 sec. 4, NW. of rd. forks; iron post stamped "866" 865.083

T. 51 N., R. 13 W., in W 1/2 sec. 3, T-rd. S.; surface of rd. 867.7

T. 51 N., R. 13 W., in SW 1/4 sec. 3, SE. of T-rd. S., in root of 12-in. oak tree; copper nail 855.52

T. 51 N., R. 13 W., center sec. 2, 90 ft. NE. of crossroads, in root of 12-in. oak tree; copper nail 858.12

T. 51 N., R. 13 W., near center sec. 1, on U.S. Highway 65, 0.5 mi. S. of junction of State Highway 22, 30 ft. N. and 40 ft. W. from crossroad; iron post stamped "866" 868.225

Sturgeon, 1/2 mi. W. of, on line between secs. 1 and 6, T. 51 N., Rs. 12 and 13 W., at rd. corner; surface of rd. 858.4

Sturgeon, 1/2 mi. W. of, in W 1/2 sec. 6, T. 51 N., R. 12 W., 300 ft. E. of T-rd. W.; surface of rd., in root of 10-in. ash tree; copper nail 857.39

Sturgeon, 0.6 mi. NW. of Wabash Ry. sta., at rd. crossing; center of track 861.2

Sturgeon, 0.2 mi. W. of Wabash Ry. sta., at fence, SW. of rd. crossing; iron post stamped "869" 857.525

Sturgeon, 0.5 mi. S. of Wabash Ry. sta., at bridge over creek; surface of floor 852.9

Sturgeon, 0.6 mi. S. of, at bridge over Salling Creek; surface of floor 858.0

Sturgeon, 1 mi. S. of, on line between secs. 8 and 17, T. 51 N., R. 12 W., 70 ft. W. of crossroad, N. of rd.; in root of 24-in. honey-locust tree; copper nail 865.25

Sturgeon, 1.6 mi. S. of, near E. sixteen cor. sec. 17, T. 51 N., R. 12 W., at T-rd. W.; surface of rd. 860.5

Sturgeon, 2.3 mi. S. of, at rd. corner; surface of rd. 864.9

T. 51 N., R. 12 W., on line between secs. 17 and 20, at rd. corner W.-S., in root of 30-in. honey-locust tree; copper nail 854.78

T. 51 N., R. 12 W., in SW 1/4 sec. 21, at rd. E. to dwelling of C. W. Robbeks, E. of rd.; iron post stamped "851" 819.839

T. 51 N., R. 12 W., in W 1/2 sec. 28, at T-rd. W. (E. ?); surface of rd. 775.8

T. 51 N., R. 12 W., in NW 1/4 sec. 35, 200 ft. S. of bridge over Silver Fork Creek, E. of rd.; in root of 30-in. oak tree; copper nail 773.88

Tps. 50 and 51 N., R. 12 W., on line between secs. 4 and 33, 75 ft. S. of T-rd. W. of rd., in root of 12-in. hickory tree; copper nail 867.52

T. 51 N., R. 12 W., E. sixteen cor. between secs. 8 and 9, 15 ft. N. and 40 ft. E. from crossroads, near fence; iron post stamped "Prim Trev Sta No 10 1912 Mo 868" 861.629

T. 50 N., R. 12 W., in SE 1/4 sec. 9, at rd. corner, W. of rd., in root of 24-in. oak tree; copper nail 866.78

Barnes School, S. of, in root of 24-in. hickory tree; copper nail 855.04

T. 51 N., R. 13 W., in SE 1/4 sec. 23, 150 ft. S. of crossroads, E. of rd., in root of 20-in. wild-cherry tree; copper nail 898.54
918

SPIRIT LEVELING IN MISSOURI

T. 50 N., R. 12 W., near center sec. 28, S. of private rd. W., W. of rd.; iron post stamped "349".
812.273

908.2

(For balance in Centralia quadrangle, see line 1.)

Browns, 1.7 mi. N. of, near center sec. 34, T. 50 N., R. 12 W., 50 ft. E. of rd., in root of 12-in. hickory tree; copper nail
919.24

Browns, 0.3 mi. S. of Wabash Ry. sta., 50 ft. E. of rd. crossing, S. of rd., inside right-of-way fence; iron post stamped "910"
908.794

Browns, on line between secs 9 and 16, T. 49 N., R. 12 W., 75 ft. E. of T-rd. E., S. of rd., in 16-in. oak tree; copper nail
873.15

Stephens, at center of crossroads; surface of rd.
855.0

Stephens, 0.5 mi. W. of, 750 ft. W. of center sec. 16, T. 49 N., R. 12 W., N. of rd., in root of 24-in. sycamore tree; copper nail
817.88

Stephens, 0.9 mi. W. of, at bridge over Bear Creek; surface of floor
792.9

Oakland Church, 300 ft. E. of, in center sec. 17, T. 49 N., R. 12 W., 500 ft. S. of T-rd. E. of rd.; iron post stamped "858"
837.298

Oakland Church, 1.4 mi. W. of, in NW 1/4 sec. 16, T. 49 N., R. 12 W., 60 ft. S. of private rd. to dwelling of A. B. Shepard, E. of rd., 1 ft. W. of fence, in root of cherry tree; copper nail
734.79

Hinton, 1.5 mi. S. of, in SW 1/4 NW 1/4 sec. 15, T. 49 N., R. 13 W., NW. of T-rd. W.; iron post stamped "777"
689.65

Hinton, 1.5 mi. S. of, near quarter cor. between secs. 11 and 12, T. 49 N., R. 13 W., SW. of T-rd. W.; iron post stamped "777"
776.231

Hinton, 2.5 mi. S. of, near quarter cor. between secs. 10 and 15, T. 49 N., R. 13 W., SE. of crossroads, in root of oak tree; copper nail
727.85

Hinton, 3.5 mi. S. of, on line between secs. 9 and 16, T. 49 N., R. 13 W., 150 ft. W. of rd., in 15-in. white-oak tree; copper nail
723.85

Hinton, 3.5 mi. S. of, on line between secs. 9 and 16, T. 49 N., R. 13 W., 150 ft. W. of rd., in 15-in. white-oak tree; copper nail
609.8

Bridge over Perche Creek; surface of floor
589.2

Perche Creek; surface of water on Oct. 28, 1912
591.7

Woodlandville, 5 mi. S. of, in NE 1/4 sec. 18, T. 49 N., R. 13 W., 580 ft. W. of crossroads, S. of oak tree; iron post stamped "758"
757.365

616.020

Woodlandville, 2.5 mi. S. of, in S 1/2 sec. 14, T. 49 N., R. 14 W., 5 ft. W. of rd., in root of honey-locust tree; bolt
733.33

5. FROM SEC. 2, T. 51 N., R. 13 W., SOUTH TO BUTLER, THENCE WEST TO HARRISBURG (by D. V. Vandiver in 1905 and P. W. McMillen and E. C. Bibbee in 1912)

T. 51 N., R. 13 W., quarter cor. between secs. 2 and 11; corner stone
845.75

T. 51 N., R. 13 W., near center sec. 11, 700 ft. NW. of Turner School.
831.65

T. 51 N., R. 13 W., near center sec. 11, at T-rd. E.; surface of rd.
810.7

Lick Fork Church, 0.7 mi. NE. of, at rd. forks; surface of rd.
887.6

Lick Fork Church, 0.1 mi. N. of, at rd. forks; surface of rd.
850.5

Lick Fork Church, 150 ft. E. of, E. of rd., in root of 12-in. oak tree; copper nail
852.53

Lick Fork Church, 0.2 mi. S. of, at T-rd. E; surface of rd.
851.6

T. 51 N., R. 13 W., 140 ft. W. of quarter cor. between secs. 11 and 15, 150 ft. E. of bridge over Lick Fork Creek, N. of rd.; iron post stamped "777"
771.875

T. 51 N., R. 13 W., center sec. 22, 100 ft. S. of T-rd. W., E. of rd., in root of 16-in. oak tree; copper nail
829.59

T. 51 N., R. 13 W., center sec. 27, W. of rd. at rd. corner, in root of 10-in. hickory tree; copper nail
825.52

T. 51 N., R. 13 W., 500 ft. W. of quarter cor. between secs. 26 and 27, at bridge over Lick Fork Creek; surface of floor
747.7

T. 51 N., R. 13 W., 140 ft. W. of Lick Fork Church; surface of floor
705.25

T. 51 N., R. 13 W., 0.2 mi. W. of cor. of secs. 26, 27, S. of rd., in root of 24-in. oak tree; copper nail
779.4

T. 51 N., R. 13 W., center of NE 1/4 sec. 34, at rd. corner N.-W.; surface of rd.
776.9

T. 51 N., R. 13 W., in NW 1/4 sec. 34, at rd. corner S.-E.; surface of rd.
782.1

T. 51 N., R. 13 W., near W. sixteenth cor. sec. 33, 34, and 35, S. of rd., in root of 18-in. oak tree; copper nail
812.0

T. 51 N., R. 13 W., center cor. between secs. 33 and 34, at rd. corner S.-E. and private rd. N.; surface of rd.
802.3

Ariel Church, 0.4 mi. N. of, at rd. forks; surface of rd.
850.7

Ariel Church, 75 ft. SE. of, iron post stamped "685"
871.2

Ariel Church, 0.5 mi. S. of, at rd. forks; surface of rd.
871.2

T. 50 N., R. 13 W., in NE 1/4 sec. 9, W. of rd. opposite T-rd. E., in root of 12-in. oak tree; copper nail and washer
806.9

Oakland Church, W. of rd.; surface of rd.
797.7

T. 50 N., R. 13 W., on line between secs. 9 and 16, 100 ft. N. of rd.
792.95

Butler, 1.1 mi. SW. of, in E. end of large triangle formed by rd. forks; iron post stamped "770"
769.616

Butler, 0.7 mi. W. of store, on W. bank of small stream, N. of rd., in root of 15-in. sycamore tree; copper nail
662.65
Butler, at bridge over Perche Creek; surface of floor

Perche Creek, under bridge; surface of water Oct. 5, 1912

T. 50 N., R. 13 W., on line between secs. 7 and 18, N. of rd., in root of 18-in. oak tree; copper nail


T. 50 N., R. 14 W., 140 ft. N. of cor. secs. 11, 12, 13, and 14, E. of rd., in root of 12-in. oak tree; copper nail

Harrisburg, at NW. corner of cemetery, at rd. forks; surface of rd.

Harrisburg, 0.6 mi. SE. of, at rd. forks; surface of rd.

6. FROM CENTRALIA QUADRANGLE AT SEC. 34, T. 52 N., R. 12 W., WEST AND SOUTH TO STURGEON (by W. R. Broaddus in 1927)

(Continued from Centralia quadrangle; see line 2.)

Tps. 51 and 52 N., R. 12 W., approximate cor. secs. 3, 4, 5, and 6, S. of rd., on top of S. head wall of concrete culvert; chiseled square


7. FROM LUPUS QUADRANGLE AT SEC. 34, T. 49 N., R. 14 W., NORTH AND WEST INTO FAYETTE QUADRANGLE AT SEC. 20, T. 49 N., R. 14 W.

(by L. V. Johnson in 1930)

(Continued from Lupus quadrangle; see line 1.)

T. 49 N., R. 14 W., about 100 ft. N. of cor. secs. 27, 28, 29, and 31, 325 ft. S. of crossings, 20 ft. W. of rd., on S. end of W. concrete head wall of culvert; chiseled square

(Continued in Fayette quadrangle; see line 2.)

8. FROM LUPUS QUADRANGLE NORTHWEST ALONG WABASH RAILWAY TO BROWNS

(by J. H. Vinyard in 1933)

(Continued from Lupus quadrangle; see line 2.)

Switzler, SW. of rd. crossing, in base of crossing signpost; nail

Stephens, N. of R.R., 5 ft. S. of crossing sign, in line with fence S.; (mark not described)

9. FROM LUPUS QUADRANGLE AT SEC. 26, T. 49 N., R. 15 W., EAST INTO LUPUS QUADRANGLE AT SEC. 25, T. 49 N., R. 15 W.

(by J. H. Vinyard in 1934)

(Continued from Lupus quadrangle; see line 3.)

T. 49 N., R. 15 W., near center sec. 26, 300 ft. E. of T-rd. N. of rd. at entrance to farmhouse, in root of 18-in. walnut tree; copper nail and washer

T. 49 N., R. 15 W., near quarter cor. between secs. 25 and 26, in yard of Brown School, on NW. corner of concrete well top; chiseled square

Columbia, 2.5 mi. N. of, along U.S. Highway 65, 100 ft. W. of junction of rd. W., on S. end of E. abutment of bridge; chiseled square

(Continued in Lupus quadrangle; see line 3.)

10. FROM SEC. 4, T. 50 N., R. 12 W., SOUTH TO COUNTY ROUTE D (now State Highway 121), THERE ALONG COUNTY ROUTE D INTO CENTRALIA QUADRANGLE (by O. D. Williams in 1934)

T. 50 N., R. 12 W., in W 1/2 sec. 15, 61 ft. N. of highway, 44 ft. E. of fence, in root of 22-in. locust tree; nail

(Continued in Centralia quadrangle; see line 5.)

11. FROM STURGEON NORTH INTO MOBERLY QUADRANGLE AT SEC. 33, T. 52 N., R. 12 W. (by O. D. Williams and J. H. Vinyard in 1934)

Sturgeon, 0.7 mi. N. of, on State Highway 22, on W. end of S. head wall of concrete culvert; chiseled square

(Continued in Moberly quadrangle; see line 3.)

12. FROM FAYETTE QUADRANGLE EAST ALONG COUNTY ROUTE C (now State Highway 121) TO HARRISBURG (by B. D. Harsha in 1934)

(Continued from Fayette quadrangle; see line 3.)

T. 50 N., R. 14 W., about 660 ft. S. of quarter cor. between secs. 1 and 9, 30 ft. N. of highway at N-S. fence, at corner fence post, in root on E. side of 24-in. oak tree; copper nail and washer

T. 50 N., R. 14 W., about 800 ft. S. of quarter cor. between secs. 3 and 10, 36 ft. S. and 55 ft. E. from junction of rd. S., at corner fence post, in root on NW. side of 30-in. oak tree; copper nail and washer
SPIRIT LEVELING IN MISSOURI

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE NEAR STURGEON (by S. A. Barnes in 1935)

T. 51 N., R. 13 W., near center sec. 1, on U.S. Highway 63, 0.5 mi. S. of junction of State Highway 22, 50 ft. N. and 40 ft. W. from crossroad; iron post stamped "650"

U.S.C. & G.S. standard disk stamped "V 122 1935"

Sturgeon, 0.2 mi. W. of Wabash Ry. sta., 60 ft. SW. of rd. crossing; iron post stamped "956"

For additional level lines along Wabash Ry., refer to United States Coast and Geodetic Survey second-order lines, Hurdland to St. Charles and Lupus to Centralia.

MOBERLY QUADRANGLE

(Latitude 39°15'-39°30'; longitude 92°15'-92°30')

Audrain, Howard, Monroe, and Randolph Counties

1. FROM HUNTSVILLE QUADRANGLE AT SEC. 17, T. 52 N., R. 14 W., SOUTHEAST ALONG MISSOURI-KANSAS-TEXAS RAILROAD TO MOBERLY (by D. V. Vandiver in 1905)

(Continued from Huntsville quadrangle; see line 1.)

Elliott, 700 ft. N. of sta., on NW. base of foundation stone of culvert; aluminum tablet stamped "1905 872 Adj" 855.876

Moberly, at Wabash Ry. sta., 7/8 ft. N. of S. edge of foundation of express office; aluminum tablet stamped "1905 872 Adj" 871.110

(Continued in Sturgeon quadrangle; see line 2.)

(Continued from Sturgeon quadrangle; see line 11.)

Sturgeon, 2 mi. N. of, near N. sixteenth cor. sec. 33, T. 52 N., R. 12 W., 510 ft. N. of Albon R.R., on S. end of W. head wall of concrete culvert; chiseled square

Sturgeon, 3 mi. N. of, near N. sixteenth cor. sec. 28, T. 52 N., R. 12 W., 30 ft. S. and 29 ft. E. from T-rd. S., in concrete post; standard tablet

Reference mark, W. of tablet, in root of 20-in. elm tree; copper nail and washer

Sturgeon, 3.7 mi. N. and 0.5 mi. E. from, near quarter cor. between secs. 21 and 22, T. 52 N., R. 12 W., E. of rd., 10 ft. root of 36-in. oak tree; copper nail and washer

(For balance in Madison quadrangle, see line 1.)

T. 52 N., R. 12 W., near cor. secs. 9, 10, 15, and 16, on N. corner of bottom step of entrance to Pleasant Grove Church; chiseled square

T. 52 N., R. 12 W., 567 ft. E. of quarter cor. between secs. 8 and 17, 27 ft. S. and 57 ft. W. from crossroads, in concrete post; standard tablet stamped "51 C W A 1934"

Reference mark, 50 ft. S. of tablet, at fence post, in stump of triple locust tree; copper nail and washer

T. 52 N., R. 12 W., near center sec. 8, about 500 ft. S. of rd. E., at fence post, in stump of twin elm trees; copper nail and washer

T. 52 N., R. 12 W., near quarter cor. between secs. 8 and 9, at rd. N., in root of 10-in. black-oak tree; copper nail and washer

T. 52 N., R. 12 W., near quarter cor. between secs. 1 and 5, E. of rd., in front of farmhouse, in root of 30-in. black-oak tree; copper nail and washer

Tps. 52 and 53 N., R. 12 W., near cor. secs. 4, 5, 32, and 53, at jog in rd., in base of fence post; nails


Reference mark, 100 ft. from tablet, on top of E. end of S. rail of bridge; chiseled cross

Middle Grove, 3 mi. S. of, on line between secs. 28 and 29, T. 53 N., R. 12 W., 0.2 mi. N. of Audrain-Monroe county line, at T-rd. W., in root of 24-in. black-oak tree; copper nail and washer

Middle Grove, 1.7 mi. S. of, near quarter cor. between secs. 20 and 21, T. 53 N., R. 12 W., 250 ft. N. of T-rd. E., in root of 24-in. black-oak tree; copper nail and washer

Middle Grove, 0.7 mi. S. of, near quarter cor. between secs. 16 and 17, T. 53 N., R. 12 W., opposite farmhouse, N. of rd., in root of 30-in. oak tree; copper nail and washer

Middle Grove, 250 ft. E. of main street intersection, 25 ft. N. of rd. to Madison, in concrete post; standard tablet stamped "57 C W A 1934"

Reference mark, about 50 ft. E. of tablet, in root of 36-in. elm tree; copper nail and washer

Middle Grove, at E. end of bottom angle of S. rail of bridge; (mark not described)

(For balance in Madison quadrangle, see line 1.)

T. 54 N., R. 12 W., near center sec. 16, N. of U.S. Highway 24, in root of 30-in. maple tree; copper nail and washer

T. 54 N., R. 12 W., near quarter cor. between secs. 16 and 17, N. of U.S. Highway 24, on E. head wall of culvert; chiseled square

T. 54 N., R. 12 W., near quarter cor. between secs. 8 and 9, 500 ft. S. of T-rd. E., S. of rd. in front of farmhouse, in root of 24-in. maple tree; copper nail and washer

T. 54 N., R. 12 W., in NE 1/4 sec. 8, on S. foundation of bridge over Flat Creek; top of W. end of channel

T. 54 N., R. 12 W., near quarter cor. between secs. 5 and 8, about 75 ft. NE. of rd. corner N.-E., in pasture; in 24-in. ash tree; copper nail and washer

T. 54 N., R. 12 W., near center sec. 5, 35 ft. N. and 25 ft. W. from T-rd. W., in concrete post; standard tablet stamped "57 C W A 1934"

Reference mark, 15 ft. S. of tablet, in root of 36-in. oak tree; copper nail and washer

4. FROM MADISON QUADRANGLE AT SEC. 21, T. 53 N., R. 12 W., NORTHWEST TO MIDDLE GROVE (by B.A. Barnes in 1955)

(Continued from Madison quadrangle; see line 2.)

T. 53 N., R. 12 W., near center sec. 21, at top of hill, in front of Payee dwelling, in base of corner fence post; spike
SPIRIT LEVELING IN MISSOURI

5. **FROM MACON QUADRANGLE AT SEC. 6, T. 54 N., R. 12 W., SOUTHEAST ALONG U.S. HIGHWAY 24 INTO MADISON QUADRANGLE (by Cornish Beck in 1936)**

T. 54 N., R. 12 W., near quarter cor. between secs. 8 and 9, 70 ft. N. and 20 ft. W. from rd. fork NW., in root on SW. side of 18-in. white-oak tree; copper nail and washer

U.S.C. & G.S. standard disc stamped "U 123 1935"

(Continued in Madison quadrangle; see line 5.)

For additional level lines along Wabash Ry., refer to United States Coast and Geodetic Survey second-order lines, Hannibal to Salisbury and Hurdland to St. Charles.

**HUNTSVILLE QUADRANGLE**

(Latitude 39°15'-39°30'; longitude 92°30'-92°45')

Chariton, Howard, and Randolph Counties

1. **FROM FAYETTE QUADRANGLE NORTHEAST ALONG ALTON RAILROAD INTO MOBERLY QUADRANGLE (by D. V. Vandiver in 1905)**

(Continued from Glasgow quadrangle; see line 1.)

Armstrong, 100 ft. S. of sta., in SW. corner of stone curb of platform; aluminum tablet stamped "1905 832 Adj"

Howard-Randolph county line, 0.2 mi. W. of, 0.2 mi. E. of milepost Chicago 368 St. Louis 199, in NE. corner of concrete foundation of bridge D-677; aluminum tablet stamped "1905 855 Adj"

Yates, 0.8 mi. E. of, 20 ft. N. of R.R., at bottom of 20-ft. embankment, in top of second culvert stone from end; aluminum tablet stamped "1905 881 Adj"

Higbee, in NW. corner of jewelry store of C. W. Williams; aluminum plug (formerly stem of aluminum tablet)

(Continued in Moberly quadrangle; see line 1.)

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey second-order line, Hannibal to Salisbury.

   Rocheport, 1.7 ml. NE. of, in SE 1/4 sec. 30, T. 14 N., R. 14 W., 150 ft. S. of lane to dwelling of A. T. Selt, E. of rd., in root of walnut tree; copper nail

   Rocheport, 5.9 ml. NE. of, in front of Walnut Grove Baptist Church, at NE. corner of cemetery; iron post stamped "Prim Trav Sta No 5 1912 Mo 773"

   Rocheport, 5 ml. NE. of, opposite old barn, S. of rd., on granite rock, highest point

   Rocheport, 6.2 ml. NE. of, near quarter cor. between secs. 16 and 21, T. 14 N., R. 14 W., NE. of T-rd. E., in root of locust tree; copper nail

   (Continued in Sturgeon quadrangle; see line 1.)

   Feet
   692.87
   772.560
   802.0
   788.70

2. FROM STURGEON QUADRANGLE AT SEC. 28, T. 14 N., R. 14 W., WEST TO POINT 3.9 MILES NORTH-EAST OF ROCHEPORT (by L. V. Johnson in 1930)


   (Continued from Sturgeon quadrangle; see line 7.)

   Feet
   776.92

3. FROM GLASGOW QUADRANGLE AT SEC. 30, T. 51 N., R. 16 W., SOUTHEAST TO FAYETTE, THENCE EAST ALONG COUNTY ROUTE C (now State Highway 124) INTO STURGEON QUADRANGLE (by B. D. Harsha in 1934)

   T. 51 N., R. 16 W., near quarter cor. between secs. 29 and 30, 21 ft. S. and 10 ft. E. from rd. fork SE. to Fayette, in concrete post; standard tablet stamped "1 H 1934"

   (For balance in Glasgow quadrangle, see line 2.)

   Feet
   903.670

   T. 50 N., R. 16 W., in NW 1/4 sec. 5, 52 (57 ?) ft. S. and 23 ft. W. from junction of rd. S., 5 ft. W. of fence corner, in concrete post; standard tablet stamped "2 H 1934"

   T. 50 N., R. 16 W., near center sec. 5, 12 ft. N. of rd., in root on SE. side of 12-in. locust tree; copper nail

   T. 50 N., R. 16 W., near E. sixteenth cor. sec. 5, 110 ft. S. and 6 ft. W. from farm rd. N., in root on NE. side of 10-in. hickory tree; copper nail and washer

   T. 50 N., R. 16 W., near E. sixteenth cor. sec. 6, 40 ft. S. and 6 ft. W. from SE. corner of Guthrie School, 40 ft. N. of rd., at rd. corner S-E., in root on SE. side of 21/4-in. walnut tree; copper nail and washer

   T. 50 N., R. 16 W., about 1,000 ft. E. of quarter cor. between secs. 8 and 9, 14 ft. N. of rd., in top of 6-in. post of retaining wall; copper nail

   Feet
   871.828
   859.09
   827.01
   841.54
   780.88

4. FROM FAYETTE QUADRANGLE (Latitude 39'00'-39°15'; longitude 92°30'-92°45')

   Boone and Howard Counties

   (Continued from Boonville quadrangle; see line 1.)
SPIRIT LEVELING IN MISSOURI

T. 50 N., R. 16 W., about 600 ft. E. of W. sixteenth cor. sec. 9, about 200 ft. N. of gate to farm of I. B. Maillon, N. of rd., in root on S. side of 2½-in. elm tree; copper nail and washer


T. 50 N., R. 16 W., near quarter cor. between secs. 9 and 10, at abrupt drop, in line with fence post E. of rd.; surface of rd.; in concrete post; standard tablet stamped "H 1934"

Fayette, at NE. corner of Linn and Morrison Streets, 10 ft. N. of N. end of steps to post office, in concrete post; standard tablet stamped "H 1934"

Reference mark, at NE. corner of stone retaining wall around courthouse yard, about 2 in. above surface of sidewalk, in limestone block marked "Datum 200 ft.", iron rod

Fayette, in front of Missouri-Kansas-Texas R.R. sta., top of E. rail

T. 50 N., R. 15 W., near center sec. 7, about 900 ft. W. of Junction of rd. N., on S. side of 1½-in. walnut tree; copper nail

T. 50 N., R. 15 W., near quarter cor. between secs. 12 and 13, 100 ft. N. of Junction of State Highway 260, on W. end of N. concrete abutment of bridge over Boone Flame Creek; chiseled square

T. 50 N., R. 15 W., near N. sixteenth cor. sec. 7, 180 ft. S. and 95 ft. W., from Junction of rd. N., in NE. corner of field, in root on NE. side of 30-in. elm tree; copper nail and washer

T. 50 N., R. 15 W., about 600 ft. W. of N. sixteenth cor. see. 20, 12 ft. S. of fence, in root on NW. side of 18-in. elm tree; notch

T. 50 N., R. 15 W., about 1000 ft. E. of center sec. 20, 20 ft. N. and 220 ft. W. from rd. fork SW., 2 ft. N. and 2 ft. E. of fence corner; iron post stamped "Prim Trav Sta No 1, 1912 Mo"

(Continued in Sturgeon quadrangle; see line 12.)

T. 50 N., R. 16 W., about 0.1 mi. W. of quarter cor. between secs; 7 and 8, at high point opposite telephone pole S. of highway; surface of highway

T. 50 N., R. 15 W., in W 1/2 sec. 8, 52 ft. E. of NE. corner of Deatherage School, 25 ft. W. of rd., in concrete post; standard tablet stamped "H 1934"

T. 50 N., R. 15 W., quarter cor. between secs. 8 and 9, W. of crossroad, on SW. corner of S. head wall of concrete culvert over Doe Creek; chiseled square

T. 50 N., R. 15 W., quarter cor. between secs. 9 and 10, at junction of rd. S., 36 ft. W. of NE. corner of church, 72 ft. S. of highway, in root on NW. side of 20-in. maple tree; copper nail and washer

T. 50 N., R. 15 W., near quarter sec. 10, at bottom of dip, 25 ft. S. of highway, in fence corner, in root on NE. side of 10-in. cottonwood tree; copper nail


T. 50 N., R. 15 W., near quarter cor. between secs. 11 and 12, about 0.2 mi. W. of Junction of rd. N., on N. head wall of concrete culvert; chiseled square

T. 50 N., R. 15 W., near center sec. 12, on N. end of W. concrete abutment of bridge over Hungar Creek; chiseled square

T. 50 N., R. 14 W., near N. sixteenth cor. sec. 7, 180 ft. S. and 95 ft. W. from Junction of rd. N., in NE. corner of field, in root on NE. side of 22-in. elm tree; copper nail and washer

T. 50 N., R. 14 W., near quarter cor. between secs. 8 and 17, 17 ft. N. and 180 ft. E. from corner post at cross fences, in root on S. side of 22-in. elm tree; copper nail and washer

T. 50 N., R. 14 W., center sec. 17, 20 ft. N. and 22 ft. E. from fence corner, 200 ft. E. of E.-W. rd., in root on W. side of 10-in. elm tree; notch

T. 50 N., R. 14 W., about 900 ft. N. of quarter cor. between secs. 17 and 18, about 250 ft. S. and 50 ft. E. from corner post at 5-fence N., 12 ft. W. of wagon trail, in pasture, in root on S. side of 10-in. locust tree; copper nail and washer

T. 50 N., R. 14 W., about 600 ft. W. of N. sixteenth cor. sec. 20, 10 ft. S. and 220 ft. W. from W. head wall of 10-in. elm tree; notch

T. 50 N., R. 14 W., about 1000 ft. E. of center sec. 20, 20 ft. N. and 220 ft. W. from rd. fork SW., 2 ft. N. and 2 ft. E. from fence corner; iron post stamped "Prim Trav Sta No 1, 1912 Mo"

For an additional level line along U.S. Highway 10, refer to United States Coast and Geodetic Survey second-order line, Lopus to Centralia.
1. FROM POINT 3 MILES DOWNSTREAM FROM ROCHEPORT NORTHWEST TO ROCHEPORT, TRINITY NORTHEAST INTO PAYETTE QUADRANGLE AT SEC. 31, T. 48 N., R. 14 W. (by D. V. Vandiver in 1905)

Boone, Cooper, Howard, and Moniteau Counties

U.S.G.E. B.M. designated "132"
Copper bolt 576.009
Top of cap 580.071
Old Overton, 2 mi. SE. of, at lane to dwelling of Gilbert Karles, 15 ft. S. of rd., in root of 214-in. honey-locust tree; copper nail 580.75
Old Overton, 1,000 ft. S. of river, at SE. corner of T-rd., in root of large maple tree; copper nail 587.08
Missouri River at Rocheport; surface of water Nov. 13, 1912 567.3
Rocheport, 20 ft. N. of Missouri-Kansas-Texas R.R., at entrance to Punk Hotel, on SE. corner of concrete sidewalk; chiseled square 591.10
Rocheport, 0.9 mi. NE. of, near center sec. 1, T. 48 N., R. 15 W., 150 ft. W. of junction of Hamburg rd. and gravel pike, on limestone ledge; chiseled square 581.51

(Continued in Payette quadrangle; see line 1.)

2. FROM SEC. 11, T. 47 N., R. 17 W., SOUTH BY WAY OF LONE ELM TO SEC. 13, T. 46 N., R. 17 W. (by J. H. Vinyard in 1934)

T. 47 N., R. 17 W., quarter cor. between secs. 11 and 12, 0.5 mi. W. of Lone Elm rd., 15 ft. N. and 1 ft. W. from rd. at N.-S. fences, 3 ft. N. and 4 ft. W. from fence corner, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "12 F"
T. 47 N., R. 17 W., near quarter cor. between secs. 12 and 13, about 500 ft. N. of T-rd. N., W. of rd., in root of 12-in. tree; spike 791.44
T. 47 N., R. 17 W., near W. sixteenth cor. sec. 13, E. of rd., in root of 18-in. ash tree; spike 797.49
Lone Elm, near center of SW 1/4 sec. 21, T. 47 N., R. 17 W., in yard of 210m Lutheran Church, in N. concrete carriage block; standard tablet stamped "T 19 O W A 1934"
Lone Elm, 0.8 mi. S. of, near W. sixteenth cor. sec. 25, T. 47 N., R. 17 W., E. of rd., in root of 18-in. elm tree; copper nail and washer 809.75
Lone Elm, 2.3 mi. S. of, in SW 1/4 sec. 36, T. 47 N., R. 17 W., 100 ft. W. of County Route J at rd. N., on S. end of N. head wall of concrete culvert; chiseled square 851.35
T. 46 N., R. 17 W., near quarter cor. between secs. 11 and 12, in schoolyard, on concrete well top; chiseled square 845.38


T. 47 N., R. 16 W., near quarter cor. between secs. 7 and 18, at gatepost, in root of 214-in. black-oak tree; copper nail and washer 757.95
T. 47 N., R. 16 W., on line between secs. 8 and 17, 500 ft. N. of rd. corner N.-W., E. of rd., in root of twin 36-in. elm trees; copper nail and washer 740.28
T. 47 N., R. 16 W., in NE 1/4 sec. 8, 0.5 mi. W. of Lutheran Church, at T-rd. S., on E. head wall of concrete culvert; chiseled square 677.78
SPIRIT LEVELING IN MISSOURI

Feet

T. 47 N., R. 16 W., W. sixteenth cor. sec. 9, near Trinity Lutheran
Church, on head wall of culvert; chiseled square 750.70

T. 47 N., R. 16 W., 0.1 mi. E. of quarter cor. between secs. 9 and 10, 718.91
0.8 mi. E. of Trinity Lutheran Church, at top of steep hill, in stump
of twin 45-in. oak tree; copper nail and washer 669.74

T. 47 N., R. 16 W., near quarter cor. between secs. 10 and 11, 1 mi. W. of New Salem School, at gate to farm, in root of 20-in. elm tree; 790.766


T. 47 N., R. 16 W., 0.3 mi. E. of center sec. 12, 0.5 mi. E. of New Salem School, 15 ft. E. of gate to farm, N. of rd., on flat rock; chiseled square 794.26

T. 47 N., R. 15 and 16 W., 600 ft. E. (W. ?) of quarter cor. between secs. 7 and 12, 1 mi. E of New Salem School, 0.2 mi. E. of farmhouse on N. side of rd.; in creek bottom, in root of twin walnut tree; copper nail and washer 671.76

T. 47 N., R. 15 W., in NW 1/4 sec. 8, 60 ft. S. and 90 ft. E. from T-rd. S., in root of 15-in. white-oak tree; copper nail and washer 789.08

T. 47 N., R. 15 W., near quarter cor. between secs. 5 and 6, SE. of T-rd. E., in telephone pole; nails 796.97

T. 47 N., R. 15 W., in SW 1/4 sec. 5, 0.3 mi. E. of T-rd. N., on N. head wall of culvert; chiseled square 695.28

T. 47 N., R. 15 W., in NW 1/4 sec. 9, in front yard of farmhouse of 576.55
Mrs. Farris, in root of 18-in. maple tree; copper nail and washer

T. 47 N., R. 15 W., in SE 1/4 sec. 6, at foot of hill, 12 ft. N. and 22 ft. E. from center of triangle formed by rd. forks, 5 ft. N. and 3 ft. E. from sign marked "Pleasant Grove Evangelical Church 8 Mile", in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "22 C W A 1939" 679.312

Reference mark, 50 ft. N. of tablet, on E. head wall of culvert; chiseled square 675.75

Lupus, 6.5 mi. W. of, in SW 1/4 sec. 3, T. 47 N., R. 15 W., 0.2 mi. W. of crossroads, in front of farmhouse of Mrs. Mary Whalen, S. of rd., in root of 12-in. cottonwood tree; copper nail and washer 84c.45

Lupus, 6.5 mi. W. of, in SW 1/4 sec. 3, T. 47 N., R. 15 W., 0.5 mi. E. of crossroads, 200 ft. E. of rd. corner, S. of rd., in root of 48-in. oak tree; copper nail and washer 823.59

Lupus, about 4.5 mi. NW. of, in S 1/2 sec. 36, T. 47 N., R. 15 W., 0.5 mi. W. of crossroads, at old Renfrew store, 6 ft. S. of rd., on property of Mrs. Clara Hackseman, in concrete well top; standard tablet stamped "23 C W A 1935" 799.390

Reference mark, 150 ft. W. of tablet, in root of 18-in. elm tree; copper nail and washer 791.60

(Continued in Lupus quadrangle; see line 7.)

4. FROM SEC. 5, T. 47 N., R. 16 W., WEST TO SEC. 12, T. 47 N., 794.60
R. 17 W. (by J. H. Vinyard in 1934)

T. 47 N., R. 16 W., in SE 1/4 sec. 5, 1 mi. NW. of Trinity Lutheran Church, in N. wing wall of E. abutment of bridge over Little Clarks Fork Creek; standard tablet stamped "20 C W A 1934" 632.856

T. 47 N., R. 16 W., 0.2 mi. W. of center sec. 5, about 2 mi. E. of Lone Elm rd., 0.1 mi. W. of T-rd. N., at bottom of hill, on S. head wall of culvert; chiseled square 650.27

T. 47 N., R. 16 W., near center sec. 6, 1.2 mi. E. of Lone Elm rd.; 650.27
0.1 mi. E. of 500 ft. jog in rd., on S. head wall of culvert; chiseled square

T. 47 N., R. 16 W., about 0.2 mi. E. of quarter cor. between secs. 1 and 6, 0.7 mi. E. of Lone Elm rd., on N. edge of bridge over branch; chiseled square 723.47

T. 47 N., R. 16 W., near quarter cor. between secs. 1 and 6, 0.5 mi. E. of Lone Elm rd., at entrance to farm of I. Hosp, N. of rd., at gatepost, in root of 30-in. wild-cherry tree; copper nail and washer 711.76

T. 47 N., R. 17 W., center sec. 1, 500 ft. S. of T-rd., on W. head wall of culvert; chiseled square 714.51

5. FROM BOONVILLE SOUTH TO SEC. 12, T. 47 N., R. 17 W., THENCE WEST 576.37
INTO PILOT GROVE QUADRANGLE AT SEC. 11, T. 47 N., R. 17 W. (by B. A. Barnes in 1934)

U.S.C.E. B.M. designated "ikl" 595.511
U.S.C.E. B.M. designated "12l40k Boonville" 598.910
Copper bolt 598.910
Top of cap 595.511


Boonville, about 5 mi. S. of, along Lone Elm rd., 0.5 mi. S. of bridge, 100 ft. E. of rd. in root of 18-in. walnut tree; spike


(Continued in Pilot Grove quadrangle; see line 2.)

6. FROM LUPUS QUADRANGLE AT SEC. 6, T. 46 N., R. 11 W., WEST AND NORTH BY WAY OF PISGAH TO POINT 2.5 MILES NORTHWEST OF PRAIRIE HOME (by A. L. Detweiller in 1931)

T. 46 N., R. 15 W., in NE 1/4 sec. 22, 700 ft. N. of large barn, 100 ft. S. of barn, at wall in root of 36-in. black-oak tree; nail

T. 46 N., R. 15 W., in SW 1/4 sec. 12, 100 ft. W. of small farmhouse, at intersection of two small branches, in root on N. side of 20-in. walnut tree; copper nail and washer

T. 46 N., R. 15 W., in SW 1/4 sec. 11, 0.7 mi. E. of Elliot School, 100 ft. W. of Howard Creek, at foot of ravine, in root on S. side of 18-in. elm tree; copper nail and washer

(Continued in California quadrangle, see line 6.)

T. 46 N., R. 15 W., near quarter cor. between secs. 10 and 15, T. 45 N., R. 15 W., in S. part of yard of Elliot School, in concrete post; standard tablet stamped "T T 22 C W A 1931"


(Continued from Pilot Grove quadrangle; see line 1.)

Cotton, 1.5 mi. N. and 1.5 mi. W. from, 20 ft. N. and 15 ft. E. from stone at quarter cor. between secs. 13 and 14, T. 46 N., R. 17 W., 5 ft. N. and 20 ft. E. from T-rd. W. in concrete post; nail

Reference mark, 0.3 mi. N. of tablet, at T-rd. E., on N. head wall of stone culvert; chiseled square

T. 46 N., R. 17 W., about 1,000 ft. S. of quarter cor. between secs. 12 and 13, at top of hill, N. of rd., in root of tree; copper nail and washer

(Continued in California quadrangle; see line 9.)
S. FROM LUPUS QUADRANGLE SOUTHWEST ALONG COUNTY ROUTE P TO JUNCTION OF STATE HIGHWAY 87, THEREFORE SOUTHEAST ALONG STATE HIGHWAY 87 INTO LUPUS QUADRANGLE (by Charles E. Hunter in 1937)

(Continued from Lupus quadrangle; see line 10.)

For additional level lines along south bank of Missouri River and U.S. Highway 60, refer to United States Coast and Geodetic Survey first-order line, Jefferson City to Kansas City; and second-order line, Lopus to Centralia.

CALIFORNIA QUADRANGLE

(Latitude 38°30'-38°41'; longitude 92°30'-92°45')

Cooper, Moniteau, and Morgan Counties

1. FROM ELDON QUADRANGLE NORTH ALONG STATE HIGHWAY 87 TO SEC. 33, T. 14N., R. 15W., THEREFORE WEST AND SOUTH ALONG ROADS INTO ELDON QUADRANGLE AT SEC. 12, T. 14N., R. 17W. (by C. P. Thompson in 1931)

High Point, 2 mi. NE. of, near E. sixteenth cor. between secs. 1 and 9, T. 14N., R. 15W., 12 ft. N. and 31 ft. E. from junction of rd. W., 12 ft. N. of fence corner, in root on W. side of 24-in. elm tree; copper nail and washer

High Point, 3 mi. NE. of, near E. sixteenth cor. on N. line sec. 4, T. 14N., R. 15W., 60 ft. N. and 90 ft. W. from junction of rd. E., on property of Roy and Oscar Porter, 12 ft. S. of NE. corner of garden, in root on E. side of 18-in. elm tree; copper nail and washer

High Point, 3.6 mi. NE. of, near center sec. 33, T. 14N., R. 15W., 110 ft. N. of crossroad, 15 ft. W. of highway, in S. end of W. head wall of concrete culvert; steel rivet


Reference mark, 30 ft. N. and 60 ft. W. from tablet, in root on S. side of 24-in. oak tree; copper nail and washer

904.85

869.14

791.88

828.715

864.762

863.59
Reference mark, 10 ft. S. and 58 ft. W. from tablet, in root on N. side of 20-in. elm tree; copper nail and washer


Reference mark, 55 ft. S. and 36 ft. W. from tablet, in root on N. side of 10-in. hedge tree; copper nail and washer.


Reference mark, 71 ft. E. of tablet, in fence corner, on large boulder; chiseled mark.


Latham, 1.5 mi. S. of, in SE 1/4 sec. 28, T. 14 N., R. 16 W., 18 ft. N. and 105 ft. W. from crossroads, in SW cor. of yard, on root on W. side of 12-in. hedge tree; copper nail and washer.


Latham, 3.7 mi. SW of, near W. sixteenth cor. between secs. 29 and 32, T. 14 N., R. 16 W., 29 ft. N. and 21 ft. E. from T-rd. N., in root on NW. side of 22-in. elm tree; copper nail and washer.

Latham, 4.2 mi. SW of, in NE 1/4 sec. 31, T. 14 N., R. 16 W., 111 ft. S. and 100 ft. E. from T-rd. E., 225 ft. N. of Hazel Dell School, in root on NW. side of 30-in. oak tree; copper nail and washer.


Latham, 6.7 mi. SW of, in NE 1/4 sec. 7, T. 14 N., R. 16 W., 15 ft. E. of rd., on N. concrete head wall of culvert; chiseled square.


(Continued in Eldon quadrangle; see line 7.)


Latham, 0.8 mi. S., thench 1.2 mi. W. from, quarter cor. between secs. 20 and 29, T. 14 N., R. 16 W., 156 ft. N. and 10 ft. W. from T-rd. W., on S. end of W. head wall of concrete culvert; chiseled square.


Reference mark, 23 ft. W. and 5 ft. E. from tablet, in root on E. side of 20-in. maple tree; copper nail and washer.

Latham, 1.2 mi. W., thench 1.2 mi. N. from, quarter cor. between secs. 8 and 7, T. 14 N., R. 16 W., 156 ft. S. and 10 ft. E. from corve S.-E., in root on W. side of 10-in. hickory tree; copper nail and washer.


Reference mark, 40 ft. W. from tablet, in root on N. side of 30-in. black-oak tree; copper nail and washer.
930  SPIRIT LEVELING IN MISSOURI


Tipton, 3.8 mi. S. and 3.8 mi. E. from, in SE 1/4 sec. 6, T. 14 N., R. 16 W., 18 ft. N. and 25 ft. W. from T-rd. W., in fence line, in root on S. side of 8-in. oak tree; copper nail and washer 861.568


Reference mark, 65 ft. N. and 30 ft. E. from tablet, in root on W. side of 30-in. black-oak tree; copper nail and washer 838.58

Tipton, about 2.8 mi. S. and 3.8 mi. E. from, near E. sixteenth cor. sec. 31, T. 15 N., R. 16 W., 22 ft. S. and 47 ft. W. from SW. corner of E. W. Howard's rd.; copper nail and washer 861.011

Tipton, 3.2 mi. E., thence 1.5 mi. S. from, E. sixteenth cor. between secs. 30 and 31, T. 15 N., R. 15 W., 7 ft. S. and 300 ft. E. from T-rd. N., on S. end of E. abutment of concrete bridge; rivet 845.148


S. reference mark 922.730

N. reference mark 922.796

3. FROM CLARKSBURG WEST ALONG MISSOURI PACIFIC RAILROAD TO SEC. 18, T. 14 N., R. 16 W., THENCE SOUTH ALONG RD. TO SEC. 30, T. 15 N., R. 16 W. (by C. P. Thompson in 1934)

U.S.C. & G.S. copper bolt designated "XXXIV" 903.673


Clarksburg, 3 mi. W. of, 0.5 mi. of rd. crossing, 30 ft. N. of R.R., 10 ft. S. of right-of-way fence, in concrete post; U.S.C. & G.S. and State Survey standard tablet 917.426

4. FROM SEC. 18, T. 15 N., R. 16 W., NORTH TO SEC. 19, T. 16 N., R. 16 W., THENCE EAST TO SEC. 31, T. 16 N., R. 15 W., THENCE SOUTH TO CALIFORNIA (by C. P. Thompson in 1934)


T. 16 N., R. 16 W., near center sec. 31, about 1.5 mi. S. of Cotton, in NW. wing wall of concrete bridge; monel rivet 778.02

Cotton, in N 1/2 sec. 30, T. 16 N., R. 16 W., on NE. pier of bridge; NE. rivet 695.43


T. 16 N., R. 16 W., in S 1/2 sec. 20, 0.1 mi. SE. of steel bridge, 50 ft. S. of small culvert, in concrete post; U.S.C. & G.S. and State Survey standard tablet 681.19


T. 16 N., R. 16 W., cor. secs. 27, 28, 32, and 33, 30 ft. NW. of junction of rd.s., in root of 10-in. white-oak tree; nail 857.50


T. 16 N., R. 16 W., in NW 1/4 sec. 25, about 150 ft. W. of New Zion Church, 50 ft. S. of rd., in root on N. side of hickory tree; lead-headed nail 831.88


T. 16 N., R. 15 W., in S 1/2 sec. 30, 500 ft. W. of dwelling of Abe Douglas, 200 ft. W. of barn, on prominent sandstone; chiseled square 865.990


T. 6 N., R. 15 W., near quarter cor. between secs. 32 and 33, about 400 ft. W. of Hartman dwelling, on SW. corner of concrete culvert; chiseled square

T. 5 N., R. 15 W., in NW 1/4 sec. 3, on SE. bank of East Brush Creek, in fence corner, in concrete post; U.S.C. & G.S. and State Survey standard tablet


California, 0.5 mi. N. of, in SW 1/4 sec. 15, T. 5 N., R. 15 W., 200 ft. NE. of rd. forks, 20 ft. SE. of rd., in concrete post; U.S.C. & G.S. and State Survey standard tablet


California, on State Highway 87, on W. wing wall of culvert over Brush Creek; chiseled square

U.S.C. & G.S. B.M. designated "XXXI" 875.326

5. FROM CALIFORNIA EAST TO SEC. 19, T. 5 N., R. 14 W., THENCE NORTH INTO CENTERTOWN QUADRANGLE AT SEC. 30, T. 5 N., R. 14 W. (by A. L. Detweiler in 1934)

California, 0.8 mi. SE. of, at county fair grounds, within race track, 35 ft. from W. fence on inside of track, 122 ft. from S. fence, 210 ft. SW. of SW. corner of new concrete committee house in infield, in limestone post; U.S.C. & G.S. standard disk (magnetic sta.)

Reference mark, 150 ft. SE. of disk, on N. end of culvert; chiseled square 820.614

California, 1 mi. E. of, on Missouri Pacific R.R., quarter cor. between secs. 26 and 27, T. 5 N., R. 15 W., 300 ft. N. of U.S. Highway 50, 250 ft. W. of rd. at brick house, S. of R.R., on base of signal control box; chiseled square 822.08

California, 2 mi. E. of, on Missouri Pacific R.R., near quarter cor. between secs. 25 and 26, T. 5 N., R. 15 W., 30 ft. W. of right-of-way at rd. crossing, 200 ft. SW. of dwellings, on NW. corner of concrete base of switch signal post 1479; chiseled square 886.85

T. 5 N., R. 14 W., in NW 1/4 sec. 25, on old Marlon rd., at SW. corner of dwelling of Sam Smeets, 30 ft. N. of rd., on SW. corner of wall top; chiseled square 860.12

(Continued in Centertown quadrangle, see line 5.)

T. 5 N., R. 15 W., about 1,000 ft. N. of center sec. 1, at New Salem Baptist Church, on S. end of second step at W. entrance; chiseled square 819.29

Kliever Store, in SE 1/4 sec. 36, T. 5 N., R. 15 W., on N. end of step at SW. corner of store; chiseled square 785.23

T. 5 N., R. 14 and 15 W., near cor. secs. 25, 26, 27, T. 5 N., R. 15 W., 30 ft. W. of right-of-way at rd. crossing, 200 ft. SW. of dwellings, on NW. corner of concrete base of switch signal post 1479; chiseled square 868.00

T. 5 N., R. 15 W., in SW 1/4 sec. 16, at crossroads, on NW. wing wall of bridge over Moniteau Creek, in root on S. side of 30-in. white-oak tree; copper nail and washer 645.59

(Continued in Centertown quadrangle, see line 5.)

6. FROM BOONVILLE QUADRANGLE AT SEC. 1, T. 5 N., R. 15 W., SOUTH, WEST, AND NORTH INTO BOONVILLE QUADRANGLE AT SEC. 17, T. 5 N., R. 15 W. (by A. L. Detweiler in 1934)

(Continued from Boonville quadrangle; see line 6.)

T. 5 N., R. 15 W., in NW 1/4 sec. 15, 0.5 mi. NW. of bridge over Moniteau River, 100 ft. N. of rd., 10 ft. W. of branch, on S. end of rock ledge; chiseled square 601.72

T. 5 N., R. 15 W., in SE 1/4 sec. 16, at crossroads, on WW. wing wall of bridge over branch; chiseled square 595.91

(Continued in Boonville quadrangle; see line 6.)


California, 10 ft. S. and 12 ft. E. from SW. corner of courthouse, in top of first step above sidewalk; standard tablet

Reference mark, at corner of Main and East Streets, on stone step of Luzum Hall; chiseled square

California, 1.1 mi. E. of, on N. partition wall of first concrete culvert E. of city limits; chiseled cross

California, 0.6 mi. S. and 1.1 mi. E. from, in NE 1/4 sec. 27, T. 5 N., R. 15 W., 300 ft. S. of Missouri Pacific R.R., 19 ft. N. of highway, on head wall of concrete culvert; chiseled square

California, 0.6 mi. S. and 1.1 mi. E. from, in NE 1/4 sec. 27, T. 5 N., R. 15 W., 300 ft. S. of Missouri Pacific R.R., 19 ft. N. of highway, on head wall of concrete culvert; chiseled square

California, 3.2 mi. SE. of, at junction of rd. B., 10 ft. S. of highway, 35 ft. W. of N.-S. rd.; top of concrete right-of-way post

California, 3.2 mi. SE. of, 37 ft. S. of highway, in root on W. side of 32-in. maple tree; copper nail and washer 905.55

(Continued in Boonville quadrangle; see line 6.)
California, 4.3 mi. SE. of, at junction of rd. N., 20 ft. N. of highway, 15 ft. E. of N.-S. rd., on head wall of concrete pipe culvert; chiseled square

(For balance in Centertown quadrangle, see line 4.)

T. 44 N., R. 14 W., in SW 1/4 sec. 19, on Lammert ford rd., 2 mi. SW. of rd. junction, 100 ft. S. and 75 ft. W. from farmhouse of H. M. Remmert, 35 ft. E. of rd., in root on W. side of 36-in. elm tree; copper nail and washer

(Continued in Centertown quadrangle; see line 4.)


Russellville, 4.5 mi. W. of, in NE 1/4 sec. 1, T. 14.3 N., R. 15 W., 50 ft. S. of SE. corner of farmhouse, 30 ft. N. of rd., in root of 12-in. poplar tree; nails


High Point, 2.5 mi. E. of, in NE 1/4 sec. 10, T. 15 N., R. 15 W., 75 ft. S. and 65 ft. W. from T-rd., 60 ft. S. of rd., in root of 18-in. willow tree; copper nail and washer

(Continued in Eldon quadrangle; see line 6.)


For an additional level line along Missouri Pacific R.R., refer to United States Coast and Geodetic Survey first-order line, Jefferson City to Pleasant Hill.
1. ISOLATED BENCHMARKS (not shown on diagram; by O. Laurgaard in 1902)

Rocky Mount, opposite post office, in foundation of church; standard tablet stamped "996 Vrsls"
Barnett, opposite Beckman's store, in foundation of church; aluminum tablet stamped "927 Vrsls"
Excelsior, 0.1 mi. E. of, 150 ft. S. of rd., in bed of creek, in large flat rock; standard tablet stamped "861 Vrsls"
High Point, in brick front of Tising's store; standard tablet stamped "901 Vrsls"
Clean, in brick front of Dr. Allee's drug store; aluminum tablet stamped "770 Vrsls"
Eldon, in brick front of bank; aluminum tablet stamped "934 Vrsls"

2. FROM VERSAILLES NO. 1 QUADRANGLE AT SEC. 1, T. 14 N., R. 15 W., NORTH TO SEC. 36, T. 14 N., R. 15 W., THERE TO SOUTH ALONG STATE HIGHWAY 52 INTO EUGENE QUADRANGLE (by L. V. Johnson in 1932)

(Continued from Versailles No. 4 quadrangle; see line 3.)

Tuscumbia, 1.2 mi. NW. of, in SE 1/4 sec. 36, T. 14 N., R. 15 W., 24.1 ft. S. and 93 ft. E. from junction of rd. S., at W. entrance to Hall's store, in concrete porch; standard tablet stamped "27 J 1932"
Reference mark, 120 ft. N. of tablet, at group of mail boxes, in root of walnut tree; copper nail and washer

(Continued in Eugene quadrangle; see line 2.)


(Continued from Versailles No. 4 quadrangle; see line 4.)

Bagnell, 1.2 mi. NW. of, in NW 1/4 sec. 1, T. 14 N., R. 16 W., 90 ft. N. (?) and 17 ft. W. (?) from rd. forks at farm of John Conner, in concrete post; standard tablet stamped "T 5/2 C W A 1931"
Reference mark, 130 ft. N. of tablet, at group of mail boxes, in root of walnut tree; copper nail and washer
T. 14 N., R. 16 W., in NW 1/4 NE 1/4 sec. 2, 3.7 mi. NW. of U.S. Highway 52, bridge over Little Gravois Creek, about 0.2 mi. S. of ford across creek, opposite old tiff mine, 30 ft. N. of rd., 12 ft. inside fence, in root of 20-in. white-oak tree; copper nail and washer
T. 14 N., R. 16 W., in NE 1/4 NE 1/4 sec. 3, 0.1 mi. S. of rd. forks, at top of steep hill, W. of rd., in root of 6-in. black-oak tree; nail and tin washer
T. 14 N., R. 16 W., in SW 1/4 sec. 3, 0.2 mi. W. of T-rd., on top stone at SW. corner of foundation of Hutchison farm house; highest point
Bagnell, 6.7 mi. W. of, in SE 1/4 sec. 4, T. 14 N., R. 16 W., 1 mi. NW. of Cooper's Camp, 0.5 mi. S. of Elm Spring Camp, 15 ft. S. and 35 ft. E. from rd. forks, in concrete post; standard tablet stamped "T 543 C W A 1934"
SPIRIT LEVELING IN MISSOURI

Reference mark, 100 ft. S. of tablet, at SW. corner of rd. forks, in root of 12-in. black-oak tree; copper nail and washer

T. 41 N., R. 16 W., in SW 1/4 NE 1/4 sec. 4, at Elm Spring Camp, W. of branch, N. of rd. near cabin, in root of 21-in. oak tree; copper nail and washer

T. 41 N., R. 16 W., in NE 1/4 sec. 32, 2 mi. SW. of Rocky Mount Post Office, 2 mi. NE. of Coffman's Beach, 150 ft. SE. of rd. forks, in root of 8-in. black-oak tree; copper nail and washer

T. 41 N., R. 16 W., in SE 1/4 SW 1/4 sec. 32, about 400 ft. SW. of rd. forks, N. of rd., in root of 24-in. black-oak tree; copper nail and washer

T. 40 N., R. 16 W., near quarter cor. between secs. 5 and 6, about 3.5 mi. SW. of Rocky Mount Post Office, 0.5 mi. NE. of Coffman's Beach, at top of hill, 50 ft. N. of rd. fork SE., in concrete post; standard tablet stamped "4T 51W C W A 1934"

Reference mark, 40 ft. S. of tablet, at SE. corner of rd. forks, in root of 12-in. white-oak tree; copper nail and washer

T. 40 N., R. 16 W., in SE 1/4 sec. 6, at Coffman's Beach, at cabin adjacent to supply building, on NW. corner of concrete step; chiseled square

FROM SEC. 1, T. 40 N., R. 16 W., NORTH TO BARNETT, THENCE WEST INTO GRAVOIS MILLS QUADRANGLE AT SEC. 36, T. 42 N., R. 17 W. (by J. H. Vinyard in 1934)

T. 41 N., R. 16 W., in NW 1/4 sec. 36, 0.3 mi. SW. of Blue Springs Church, in front of farmhouse, E. of rd., in root of 30-in. white-oak tree; copper nail and washer

T. 41 N., R. 16 W., near center sec. 26, at bottom of hill, 500 ft. W. of log dwelling, 300 ft. E. of T-rd. N., on N. head wall of culvert; chiseled square


T. 41 N., R. 16 W., in NW 1/4 sec. 14, about 800 ft. S. of E.-W. Jog in rd., about halfway between two farmhouses, in fence line, W. of rd., in root of 10-in. elm tree; copper nail and washer

T. 41 N., R. 16 W., in NW 1/4 sec. 14, 0.3 mi. SW. of Rocky Mount Church, at rd. forks, E. of rd., near mail boxes, in root of 20-in. black-oak tree; copper nail and washer

T. 41 N., R. 16 W., in SW 1/4 sec. 11, about 0.1 mi. NE., thence 0.3 mi. NW. from Rocky Mount Church, 15 ft. S. of junction of rd. N., in concrete post; standard tablet stamped "T T 532 C W A 1934"

Reference mark, 140 ft. N. of tablet, in root of 6-in. black-oak tree; copper nail and washer


Reference mark, 100 ft. N. of tablet, in front yard of farmhouse, in root of 10-in. oak tree; copper nail and washer


Reference mark, 210 ft. S. of tablet, on concrete base of semaphore; chiseled square

T. 42 N., R. 16 W., near center sec. 21, 1.2 mi. W. of Barnett, on State Highway 52, at crossroad, at SW. corner of Chicago, Rock Island & Pacific Ry. right-of-way fence, in root of 20-in. oak tree; copper nail and washer

T. 42 N., R. 16 W., in NE 1/4 sec. 29, NE. of T-rd. E., 50 ft. N. of Routon Church, in root of 30-in. white-oak tree; copper nail and washer

T. 42 N., R. 16 W., in NE 1/4 SW 1/4 sec. 29, 40 ft. SE. of SE. corner of Sunset School, in concrete post; standard tablet stamped "T T 516 C W A 1934"

Reference mark, on SE. corner of concrete well top; chiseled square

T. 42 N., R. 16 W., in SW 1/4 NW 1/4 sec. 32, 1.3 mi. SW. of Sunset Church, in front of farmhouse, in root of 10-in. elm tree; copper nail and washer

T. 42 N., R. 16 W., in NW 1/4 sec. 31, 1 mi. E. of county rd. from Versailles to Barnett, on private ridge rd., at wooden gate, in wooded pasture, in root of 15-in. oak tree; copper nail and washer

(Continued in Gravois Mills quadrangle; see line 4.)
PART 7, CENTRAL MISSOURI, 1896-1938


T. 41 N., R. 16 W., in NE 1/4 sec. 10, 125 ft. SW. of rd. forks, 50 ft. NW. of fence corner, N. of rd., in root of 15-in. oak tree; copper
nail and washer

T. 41 N., R. 16 W., in NE 1/4 sec. 9, about 1.5 mi. W. of Rocky Mount Church, at top of hill, 200 ft. W. of rd. forks, N. of rd., in root
of 25-in. black-oak tree; copper nail and washer

T. 41 N., R. 16 W., in SE 1/4 sec. 8, 0.4 mi. NE. of McKinley School, S.
of rd., in corner of field, in root of 15-in. oak tree; copper nail and
washer

T. 41 N., R. 16 W., in NE 1/4 sec. 9, about 1.5 mi. W. of Rocky Mount Church, at top of hill, 200 ft. W. of rd. forks, N. of rd., in root
of 18-in. elm tree; copper nail and washer

T. 41 N., R. 16 W., in NE 1/4 sec. 19, in front of farmhouse, in root of
12-in. maple tree; copper nail and washer

(Continued in Gravois Mills quadrangle; see line 6.)

6. FROM CALIFORNIA QUADRANGLE AT SEC. 9, T. 43 N., R. 15 W., SOUTH
TO HIGH POINT (by O. P. Hodgdon in 1934)

High Point, 1.1 mi. E. of, in SE 1/4 SE 1/4 sec. 9, T. 43 N., R. 15 W.,
500 ft. SW. of junction of State Highway 87, at rd. SW. to High Point,
in root of 24-in. walnut tree; nails

7. FROM CALIFORNIA QUADRANGLE AT SEC. 12, T. 43 N., R. 17 W., SOUTH-
WEST INTO GRAVOIS MILLS QUADRANGLE AT SEC. 13, T. 43 N.,
R. 17 W. (by C. F. Thompson in 1934)

T. 43 N., R. 17 W., near quarter cor. between secs. 12 and 13, 177 ft. S.
and 55 ft. E. from T-rd. E., in SW. corner of yard of Providence School,
on NW. corner of concrete well top; chiseled square

(Continued in Gravois Mills quadrangle; see line 9.)

For additional level lines along Missouri Pacific R.R. and Chicago,
Rock Island & Pacific Ry., refer to United States Coast and
Geodetic Survey second-order lines; Mexico to Eldon, Mansfield
to Versailles, and Eldon to Labadie.
SPIRIT LEVELING IN MISSOURI

VERSAILLES NO. 3 QUADRANGLE
(Latitude 38°00’-38°15’; longitude 92°30’-92°45’)
Camden, Miller, and Morgan Counties

1. FROM VERSAILLES NO. 3 QUADRANGLE EAST ALONG U.S. HIGHWAY 51 TO CAMDENTON, THENCE SOUTH ALONG STATE HIGHWAY 5 INTO STOUTLAND QUADRANGLE (by George W. Moore in 1931)
(Continued from Versailles No. 3 quadrangle; see line 1.)
Camdenton, 0.1 mi. SW. of, 120 ft. N. and 70 ft. E. from crossroad, N. of highway, in root on S. side of 19-in. oak tree; copper nail and washer
Camdenton, 95 ft. E. of junction of U.S. Highway 51, in S. head wall of concrete culvert; standard tablet stamped "100 M 1931"
Reference mark, 150 ft. S. of tablet, on N. head wall of concrete culvert; chiseled square

Post
1,005.13

Camdenton, 1.5 mi. NE. of courthouse, 25 ft. E. of highway, in root of 18-in. oak tree; copper nail
Linn Creek, 1 mi. S. of, SE. of Junction of rd. SE., on head wall of culvert; chiseled square
Linn Creek, at E. edge of, on SW. abutment of bridge J-376; chiseled square
Linn Creek, 0.4 mi. E. of, 35 ft. SE. of crossroad, in concrete post; standard tablet stamped "26 R 1932"; chiseled square
Reference mark, 130 ft. SW. of tablet, on N. corner of bridge J-314; chiseled square
Linn Creek, 1.5 mi. NE. of, 20 ft. S. of highway, in root of 20-in. hickory tree; copper nail
Linn Creek, 2.7 mi. NE. of, E. of highway, in root of 24-in. oak tree; copper nail
Linn Creek, 3.4 mi. NE. of, 60 ft. NW. of crossroad, in concrete post; standard tablet stamped "29 R 1932"
Reference mark, 130 ft. E. of tablet, on head wall of culvert; chiseled square
Damsel, 1.9 mi. S. of, 4.6 mi. NE. of Linn Creek, W. of highway, 140 ft. N. of store, in root of 20-in. oak tree; copper nail and washer
Damsel, 0.8 mi. S. of, 30 ft. E. of highway, in root of 20-in. oak tree; copper nail
Damsel, 320 ft. NE. of store, 20 ft. E. of highway, in concrete post; standard tablet stamped "R 30 1932"
Reference mark, 670 ft. N. of tablet, on E. head wall of concrete culvert; chiseled square
Damsel, 1 mi. NE. of, SW. of junction of rd. W., on head wall of culvert; chiseled square
Zebra, 2.4 mi. SW. of post office, 1.2 mi. W. of W. end of bridge over Lake of the Ozarks, 70 ft. N. of highway, 25 ft. S. and 55 ft. E. from SE. corner of school, in concrete post; standard tablet stamped at T 161 B 1932
Zebra, 2 mi. SW. of post office, 0.8 mi. SW. of bridge over Lake of the Ozarks, 130 ft. SE. of junction of rd. S., in root of 30-in. oak tree; copper nail
Zebra, 1.2 mi. SW. of post office, NW. corner of bridge over Lake of the Ozarks; chiseled square
Zebra, 270 ft. S. of post office, 80 ft. NE. of junction of rd. E., in root of 15-in. hickory tree; copper nail
Zebra, 1.1 mi. NE. of, 13 ft. N. of junction of old U.S. Highway 51, 21 ft. W. of highway, in concrete post; standard tablet stamped at T 160 B 1932 (as reset Sept. 30, 1938)
Reference mark, 370 ft. NE. of tablet, on W. head wall of culvert; chiseled square
Kaiser, 2 mi. NW. of, 100 ft. NE. of crossroad, on head wall of culvert; chiseled square
Kaiser, 0.4 mi. N. of, 350 ft. W. of cor. sec. 4, 5, 6, and 9, T. 39 N., R. 15 W., 60 ft. W. of T-rd. S., on concrete block; chiseled square
Kaiser, 110 ft. NW. of post office, 20 ft. W. of rd. in fence corner, in concrete post; standard tablet stamped "T.T. 159 B 1932"
Kaiser, 2 ml. NW. of, NE 1/4 sec. 17, on W. head wall of culvert; NE 1/4, 15 W., 80 ft. SW. of New Hope Church, E. of rd., in root of 15-in. oak tree; copper nail
T. 39 N., R. 15 W., in NW 1/4 NE 1/4 sec. 22, 60 ft. SW. of T-rd. E., in root of 20-in. oak tree; copper nail
T. 39 N., R. 15 W., in NE 1/4 SE 1/4 sec. 15, 15 ft. N. of rd. at ford across creek, in root of walnut tree; copper nail
T. 39 N., R. 15 W., in NE 1/4 NE 1/4 sec. 22, about 5 mi. NW. of Brumley, on rd. to Kaiser, 50 ft. W. of dwelling of Mrs. Catron, 1½ ft. N. (?), of rd. 2 ft. NE of fence corner, in concrete post; standard tablet stamped "T.T. 158 B 1932"

Reference mark, 40 ft. SW. of tablet, on ledge; chiseled square
T. 39 N., R. 15 W., in NW 1/4 sec. 25, 30 ft. NW. of T-rd. N., in root of 21-ln. oak tree; copper nail
T. 39 N., R. 15 W., in NE 1/4 SE 1/4 sec. 14, 10 ft. S. of rd. at gate, in root of 18-in. oak tree; copper nail
T. 39 N., R. 15 W., in SE 1/4 NE 1/4 sec. 13, 20 ft. NE. of rd. forks, in root of 2½-in. oak tree; copper nail
T. 39 N., R. 15 W., in NE 1/4 SW 1/4 sec. 18, 18 ft. S. of rd. fork NE., in root of triangular-blazed white-oak tree, in concrete post; standard tablet stamped "T.T. 157 B 1932"

Reference mark, 130 ft. E. of tablet, in root of 30-in. oak tree; copper nail
(Continued in Iberia quadrangle; see line 4.)

3. FROM POINT 1 MILE NORTHEAST OF ZEBRA POST OFFICE NORTHWEST AND NORTHEAST ALONG U.S. HIGHWAY 54 TO SEC. 7, T. 40 N., R. 15 W., THENCE EAST ALONG ROADS INTO ELDON QUADRANGLE AT SECURITY: T. 40 N., R. 15 W. (by L. V. Johnson in 1932)
Zebba post office, 3 mi. NE. of, 600 ft. NW. of Camden-Willmar county line, 50 ft. NE. of highway, inside fence, in root on W. side of triangular-blazed 15-in. oak tree; copper nail and washer
Bag nell Dam, 2.4 mi. S. of, 1.2 mi. NW. of Zebba, 6½ ft. S. and 90 ft. W. from crossroad, at entrance to Arrowhead Beach Club, in root on W. side of 12-in. black-oak tree; copper nail and washer
Bag nell Dam, 1.5 mi. SW. of, 30 ft. S. and 65 ft. W. from junction of rd. NW., in root on NE. side of 10-in. oak tree; copper nail and washer
Bag nell Dam, at W. end of, 13 ft. S. of center of pavement, in concrete walk; standard tablet stamped "25 J 1932"
Bag nell Dam, 0.4 mi. N. of, near summit of hill, 50 ft. S. and 15 ft. E. from crossroad, in root on W. side of 12-in. oak tree; copper nail and washer
Bag nell Dam, 1.2 mi. NW. of, 130 ft. S. of junction of rd. W. to Rockwood Farm, W. of highway, on concrete head wall of culvert; chiseled square
Bag nell Dam, 2.6 mi. NW. of, on crossroad at NW. corner of bridge over Blue Springs Creek; chiseled square
Bag nell Dam, 510 ft. NW. of Missouri Pacific R.R. sta., 21 ft. SE. of switch, 12 ft. W. of track, in rock; standard tablet stamped "68 Virsals"
Bag nell Dam, 3.8 mi. NE. of, at NE. corner of bridge over drain, on top of concrete railing; chiseled square
T. 40 N., R. 15 W., near cor. sec. 4, at NW. corner of bridge over Wrights Creek, in concrete wall; standard tablet stamped "26 J 1932"
Bag nell Dam, at SW. corner of bridge, on concrete wing wall; chiseled square
T. 40 N., R. 15 W., in SW 1/4 sec. 3, about 300 ft. NE. of dwelling of D. W. Bond, 50 ft. NE. of NE. corner of barn, 10 ft. E. of rd., in root on SE. side of 12-in. oak tree; copper nail and washer
T. 40 N., R. 15 W., near cor. sec. 2, 3, 10, and 11, about 200 ft. W. of rd. fork NE., 90 ft. NW. of NE. corner of log farmhouse, 20 ft. S. of rd., in root on N. side of 15-in. oak tree; copper nail and washer
T. 40 N., R. 15 W., in SW 1/4 sec. 1, on concrete porch of Harmony School; chiseled square
(Continued in Eldon quadrangle; see line 2.)

Bagnell Dam, on extreme NE. end of sidewalk on downstream side of dam; chiseled square
Bagnell Dam, 1.6 mi. N. of, 100 ft. E. of, in root of 10-in. black-oak tree; copper nail and washer

937

References:
888.10
889.41
898.36
913.184
924.15
852.60
811.82
724.15
835.956
852.67
883.05
923.13
909.05
948.115
594.56
856.43
876.84
673.450
673.35
798.98
843.82
590.52
585.560
601.70
621.678
621.70
778.72
855.50
822.34
670.27
821.41
SPIRIT LEVELING IN MISSOURI

Bagnell, 1.5 ml. N. of, in SE 1/4 SE 1/4 sec. 7, T. 40 N., R. 15 W., near N. right-of-way line, 53 ft. N. and 100 ft. W. from SW. corner of filling sta. of Robert Rustin, in concrete post; standard tablet stamped "T T Sta 10 W 1931". Reference mark, 200 ft. W. of tablet, on N. head wall of culvert; chiseled square.

T. 40 N., R. 15 W., in N 1/2 sec. 7, 0.8 ml. NW. of U.S. Highway 54 bridge over Blue Springs Creek, 300 ft. S. of farmhouse, at rd. corner, in root of 12-in. pecan tree; copper nail and washer.

T. 40 N., R. 15 W., in SE 1/4 SE 1/4 sec. 1, 1.6 ml. NW. of U.S. Highway 54 bridge over Blue Springs Creek, at SE. corner of farmhouse of V. B. Simpson, on top of bottom stone; chiseled mark

(Continued in Eldon quadrangle; see line 1.)

For additional level lines along U.S. Highway 54 and State Highway 5, refer to United States Coast and Geodetic Survey second-order lines, Mansfield to Versailles and Linn Creek to Brownston. VERSAILLES NO. 3 QUADRANGLE

(Latitude 38°00' -38°15'; longitude 92°14.5'-93°00')

Camden and Morgan Counties


Macks Creek, 3 ml. N. of, 11 ft. W. of rd., in root on E. side of 27-in. oak tree; copper nail and washer.

Macks Creek, 4.1 ml. N. of, at edge of timber, 10 ft. W. of rd., in root on E. side of 14-in. oak tree; copper nail and washer.

T. 38 N., R. 19 W., in SW 1/4 NE 1/4 sec. 24, about 1.5 ml. N. of Macks Creek, about 1.5 ml. SE. of Bannister School, in NW. corner of rd. fork N., 9 ft. E. of triangular-blazed 20-in. walnut tree, 20 ft. N. and 30 ft. W. from triangular-blazed triple oak tree, in concrete post; standard tablet stamped "T T Sta 10 W 1931".

Reference mark, 35 ft. SE. of tablet, in triangle of rd. forks, in root on NW. side of twin oak tree; copper nail and washer.

Bannister, 0.5 ml. SE. of, on E. end of S. head wall of concrete culvert; chiseled square.

Old Bannister, 265 ft. E. of rd. forks at abandoned store building, in root on N. side of 15-in. oak tree; copper nail and washer.


Reference mark, 27 ft. N. and 1/2 ft. W. from tablet, 18 ft. W. of school, in root on S. side of 18-in. oak tree; copper nail and washer.

Bannister, 0.6 ml. NW. of, at top of hill, 70 ft. SE. of T-rd. NE., in root on N. side of 25-in. oak tree; copper nail and washer.

(Continued in Cross Timbers quadrangle; see line 1.)
Climax Springs, 4.5 mi. E. of, on line between secs. 22 and 23, T. 39 N., R. 18 W., EAST TO SEC. 21, T. 39 N., R. 18 W., THENCE SOUTHEAST INTO MACKS CREEK QUADRANGLE AT SEC. 30, T. 38 N., R. 17 W. (by George W. Moore in 1931)

(Continued from Cross Timbers quadrangle; see line 2.)

2. FROM CROSS TIMBERS QUADRANGLE AT SEC. 22, T. 39 N., R. 19 W., Foot

Climax Springs, 4.5 mi. E. of, on line between secs. 22 and 23, T. 39 N., R. 18 W., 2 ft. s. and 46 ft. E. from rd. fork SE., 2 ft. S. and 6 ft. W. from oak tree, in concrete post; standard tablet stamped "T T Sta 31 W 1931"

Reference mark, 7 ft. E. of, tablet, S. of rd., in root on SE. side of 17-in. oak tree; copper nail and washer

Climax Springs, 5.5 mi. E. of, at Crocker School, 110 ft. S. and 60 ft. W. from T-rd. N., on NE. corner of concrete platform; chiseled square


Climax Springs, 6.7 mi. E. of, 170 ft. NE. of bend in rd., on SW. end of NW. head wall of concrete culvert; chiseled square


Reference mark, 64 ft. S. and 21 ft. E. from tablet, S. of rd., in root on N. side of 20-in. oak tree; copper nail and washer

Barnumton, 8 ft. SE. of store and post office, on SE. corner of concrete platform of gasoline pump; chiseled square

Barnumton, 0.7 mi. E. of, 70 ft. N. of rd., in root on SW. side of 20-in. oak tree; copper nail and washer

Barnumton, 1.5 mi. E. of, 70 ft. S. and 25 ft. W. from school, in root on SW. side of 20-in. oak tree; copper nail and washer


Reference mark, 250 ft. E. of, tablet, 25 ft. S. and 100 ft. W. from T-rd. S. to Nonsuch, in root on N. side of 10-in. oak tree; copper nail and washer

T. 39 N., R. 18 W., in SE 1/4 sec. 21, 2.1 mi. N. of Nonsuch, at foot of hill, 150 ft. S. of rd. at junction of abandoned rd. NW., in root on N. side of twin oak tree; copper nail and washer

T. 39 N., R. 18 W., in SE 1/4 sec. 28, 2.1 mi. N. of Nonsuch, on hill, 20 ft. E. of, rd., in root on S. side of 6-in. oak tree; copper nail and washer

T. 39 N., R. 18 W., in SE 1/4 sec. 33, 1.5 mi. N. of Nonsuch, at sharp bend in rd., W. of rd. at S. gatepost to pasture, in root on SE. side of 10-in. elm tree; copper nail and washer

T. 38 N., R. 18 W., in NE 1/4 NW 1/4 sec. 3, about 0.4 mi. NW. of Nonsuch, on W. bank of creek, 90 ft. E. of private rd. to farmhouse of Ben Moulder, 10 ft. N. of fence corner, in top of prominent shelf rock outcrop; standard tablet stamped "95 M 1931"

Reference mark, 70 ft. W. and 40 ft. W. from tablet, at corner fence post, in root on SE. side of 15-in. walnut tree; copper nail and washer

Nonsuch, 350 ft. SW. of W. bank of creek, building 170 ft. S. of ferry landing, in root on NW. side of 20-in. apple tree; copper nail and washer

Nonsuch, 1,200 ft. S. of ferry landing, 60 ft. S. of lake, in root on NW. side of 20-in. locust tree; copper nail and washer

T. 38 N., R. 18 W., in SE 1/4 sec. 3, 0.5 mi. SE. of Nonsuch, at top of hill, 20 ft. E. of, rd. forks, W. of rd., in root on NE. side of 10-in. oak tree; copper nail and washer

T. 38 N., R. 18 W., in SW 1/4 sec. 2, 0.9 mi. SE. of Nonsuch, 130 ft. NW. of Hollow School, 40 ft. NE. of rd. forks, in root on SE. side of 22-in. oak tree; copper nail and washer

T. 38 N., R. 18 W., in NE 1/4 NW 1/4 sec. 11, 1.5 mi. SE. of Nonsuch, 35 ft. NW. of rd. forks. E. of orchard, in S. side of 15-in. oak tree; spike

T. 38 N., R. 18 W., in NW 1/4 SW 1/4 sec. 11, about 1.5 mi. SE. of Nonsuch, at E. end of concrete walk to dwelling of W. R. Eason, in top of prominent concrete platform; standard tablet stamped "96 M 1931"

Reference mark, 11 ft. S. and 11 ft. N. from tablet, on concrete retaining wall; chiseled square

T. 38 N., R. 18 W., in NW 1/4 SE 1/4 sec. 15, 4.5 mi. NW. of Roach, 130 ft. E. of, rd. forks, 25 ft. W. of rd., in root on SE. side of 14-in. oak tree; copper nail and washer

T. 38 N., R. 18 W., in SW 1/4 sec. 14, 3.6 mi. NW. of Roach, 70 ft. W. of rd. forks, in root on NW. side of 18-in. elm tree; copper nail and washer

T. 38 N., R. 18 W., in SW 1/4 sec. 21, 2.7 mi. NW. of Roach, 150 ft. SE. of bridge, 50 ft. E. of rd., in root on W. side of 15-in. sal tree; copper nail and washer

T. 38 N., R. 18 W., in SE 1/4 SE 1/4 sec. 21, about 1.9 mi. NW. of Roach, 100 ft. W. of rd. forks, at N. end of rd., in root on S. side of 15-in. oak tree and mail box, in large rook flush with ground; standard tablet stamped "97 M 1931"

Reference mark, 18 ft. W. and 50 ft. E. from tablet, 35 ft. NE. of rd., in root on SW. side of 20-in. oak tree; copper nail and washer

T. 38 N., R. 18 W., in SE 1/4 sec. 25, 1 mi. NW. of Roach, 26 ft. N. and 100 ft. E. from rd. corner N-E., in root on E. side of 22-in. oak tree; copper nail and washer

90.130

94.29

970.65

990.18

1,014.74

1,052.799

857.37

801.79

710.66

688.547

693.16

660.53

663.22

827.55

693.96

693.16

693.14

990.18

663.32

868.96

668.96

663.22

990.18

660.53

Barnumton, 2.4 mi. E. of, in SW 1/4 sec. 22, T. 39 N., R. 18 W., in saddle, 35 ft. S. of rd., in root on E. side of 15-in. oak tree; copper nail and washer


Barnumton, 3.9 mi. E. of, in SW 1/4 sec. 22, T. 39 N., R. 18 W., 20 ft. S. of, in root on NE. side of 10-in. oak tree; copper nail and washer


Barnumton, 4.9 mi. E. of, in NW 1/4 NW 1/4 sec. 25, T. 39 N., R. 18 W., 210 ft. W. of SW. corner of Mount Taber School, 20 ft. S. of rd., in root on N. side of 26-in. oak tree; copper nail and washer

Barnumton, 5.4 mi. E. of, in NW 1/4 sec. 25, T. 39 N., R. 18 W., 25 ft. S. and 30 ft. E. from rd. forks, in concrete post; standard tablet stamped "10l\ 1931"

Reference mark, 12 ft. N. of tablet, 30 ft. E. of rd. forks, in root on W. side of 20-in. oak tree; spike

Barnumton, 6.3 mi. E. of, in NW 1/4 sec. 30, T. 39 N., R. 17 W., 50 ft. S. and 120 ft. E. from rd. forks, in root on N. side of 24-in. oak tree; copper nail and washer

Barnumton, 7.1 mi. E. of, in NE 1/4 sec. 30, T. 39 N., R. 17 W., at top of hill, 15 ft. N. and 55 ft. W. from rd. forks, in root on N. side of 12-in. oak tree; copper nail and washer

Barnumton, 7.8 mi. E. of, in SW 1/4 sec. 20, T. 39 N., R. 17 W., 20 ft. S. of rd. corner, in root on NE. side of 18-in. oak tree; copper nail and washer


Reference mark, 55 ft. NE. of tablet, 65 ft. N. of rd., in root on SE. side of 10-in. walnut tree; copper nail and washer

4. FROM MACKS CREEK QUADRANGLE NORTHEAST ALONG U.S. HIGHWAY 51 INTO VERSAILLES NO. 4 QUADRANGLES (by George W. Moore in 1931)

Camdenton, 0.7 mi. SW. of, 62 ft. SE. of highway, in root on NW. side of 22-in. oak tree; copper nail and washer

(Checked in Versailles No. 4 quadrangle; see line 1.)

5. FROM VERSAILLES NO. 4 QUADRANGLE NORTH ALONG STATE HIGHWAY 5 TO SEC. 34, T. 40 N., R. 17 W. (by C. E. Reick in 1932)

Camdenton, 1 mi. NW. of, at junction of rd. N., NE. of highway, on W. end of pipe culvert; chiseled square

T. 38 N., R. 17 W., in SW 1/4 sec. 14, 100 ft. E. of junction of rd. W., 30 ft. S. of root of 12-in. oak tree; copper nail

T. 38 N., R. 17 W., in NE 1/4 NE 1/4 sec. 15, about 3 mi. NW. of Camdenton, 20 ft. S. of rd. junction, 20 ft. S. and 20 ft. E. from junction of lane E. to dwelling of T. B. Evans, in concrete post; standard tablet stamped "9 T 210 B 1932"

Lake of the Ozarks; surface of water at 12 p.m. Sept. 3, 1932 656.1

T. 38 N., R. 17 W., near center sec. 11, E. of highway, on head wall of culvert; chiseled square

T. 38 N., R. 17 W., in SW 1/4 NE 1/4 sec. 35, 0.3 mi. SW. of S. landing of ferry across Lake of the Ozarks, 33 ft. W. of junction of rd. NE. along ridge, in concrete post; standard tablet stamped "239 B 1932"

Reference mark, 130 ft. N. of tablet, in root of 12-in. oak tree; copper nail

Lake of the Ozarks; surface of water at 4 p.m. Sept. 3, 1932 664.4

T. 38 N., R. 17 W., near center sec. 26, 70 ft. N. of S. landing of ferry across Lake of the Ozarks, 31 ft. above water level, in concrete post; standard tablet stamped "T 258 B 1932"

T. 39 N., R. 17 W., in SW 1/4 sec. 23, on summit, W. of highway, in root of hickory-rooted oak tree; copper nail

T. 39 N., R. 17 W., in SE 1/4 NW 1/4 sec. 11, E. of highway, in root of 24-in. oak tree; copper nail

T. 39 N., R. 17 W., in NE 1/4 SW 1/4 sec. 30, 2.8 mi. N. of N. landing of ferry across Lake of the Ozarks, 60 ft. S. and 30 ft. E. from junction of rd. E. to Aero Club, in concrete post; standard tablet stamped "T 257 B 1932"

T. 39 N., R. 17 W., near cor. secs. 2, 3, 10, and 11, 75 ft. S. of junction of rd. E. to Lakeview Beach, in root of 20-in. oak tree; copper nail

921.58
PART 7, CENTRAL MISSOURI, 1896-1938

T. 39 N., R. 17 W., 1 mi. S. of N. quarter cor. sec. 3, about 1.6 mi. S. of junction of rd. to Sunrise Beach, 130 ft. SE. of junction of rd. SW. of NE 1/4 sec. 17, 7 ft. E. of triangular-blazed tree, in concrete post; standard tablet stamped "T T 236 B 1932" 861.21

T. 39 N., R. 17 W., in NE 1/4 sec. 4, 40 ft. NW. of junction of rd. W. 1/4 sec. 17, 20 ft. S. of root on 20-in. oak tree; spike 939.79

T. 40 N., R. 17 W., in SW 1/4 sec. 35, 40 ft. N. of junction of rd. E. to Sunrise Beach, in root of 10-in. oak tree; copper nail 999.95

T. 39 N., R. 17 W., in NE 1/4 SW 1/4 sec. 34; in front of ridge, 80 ft. SW. of highway, 20 ft. W. of rd. S., 45 ft. S. of triangular-blazed oak tree, in concrete post; standard tablet stamped "T T 235 B 1932" (as reset in 1938) 809.23

Reference mark, 150 ft. W. of tablet, in root of 15-in. oak tree; copper nail 812.91

6. FROM SEC. 19, T. 39 N., R. 18 W., NORTHEAST TO SEC. 12, T. 40 N., R. 17 W. (by C. E. Relick in 1952)

T. 39 N., R. 18 W., in SW 1/4 sec. 18, W. of ferry rd., on head wall of culvert; chiseled square 782.80

T. 39 N., R. 18 W., in SW 1/4 sec. 7, 200 ft. N. of ford. W. of rd., in base of large, corner fence post; spike 725.34

T. 39 N., R. 18 W., in NW 1/4 SW 1/4 sec. 5, in front of Lee farmhouse, 25 ft. N. of rd., in concrete post; standard tablet stamped "T T 229 B 1932" 696.71

Reference mark, 110 ft. S. of tablet, on W. head wall of culvert; chiseled square 690.88

Lake of the Ozarks; surface of water at 2 p.m. Sept. 7, 1932 656.1

T. 39 N., R. 18 W., in R 1/2 sec. 3, near S. landing of Irontown Ferry, 50 ft. S. of Lake of the Ozarks shore line, about 5 ft. above water level, in concrete base of gasoline pumps; standard tablet stamped "T T 230 B 1932" 662.13

Reference mark, 90 ft. S. of tablet, in base of 2/-in. oak tree; spike 666.12

T. 39 N., R. 18 W., in NE 1/4 sec. 2, about 1.5 mi. SE. of N. landing of Lake road, along Irontown Ferry Road, 6 rods of high ridge, 20 ft. N. and 70 ft. W. from rd. junction, in concrete post; standard tablet stamped "T T 231 B 1932" 950.78

Reference mark, 180 ft. E. of tablet, in root of 20-in. oak tree; copper nail 943.81

T. 40 N., R. 17 W., in NW 1/4 sec. 1, at summit, E. of rd., in root of 20-in. oak tree; copper nail 894.31

T. 40 N., R. 17 W., in SE. cor. sec. 19, 80 ft. S. and 40 ft. E. from State Highway 5 at junction of Irontown Ferry Road, in concrete post; standard tablet stamped "T T 233 B 1932" (as reset in 1938) 1,010.44

Reference mark, 1,000 ft. S. of tablet, on E. head wall of culvert; chiseled square 976.92

T. 40 N., R. 17 W., in NE 1/4 SW 1/4 sec. 29, 80 ft. W. of State Highway 5 at rd. E. to Gladstone, in root of 28-in. oak tree; copper nail 963.05

T. 40 N., R. 17 W., in SE 1/4 SE 1/4 sec. 20, 10 ft. S. of rd., in root of 2/-in. oak tree; copper nail 955.14

T. 40 N., R. 17 W., in NE 1/4 NW 1/4 sec. 21, S. of rd., in root of 30-in. oak tree; copper nail 899.55

T. 40 N., R. 17 W., near center of SW 1/4 sec. 15, 10 ft. S. and 15 ft. E. from crossroads, in large sandstone ledge; standard tablet stamped "T T 232 B 1932" 828.97

T. 40 N., R. 17 W., in NW 1/4 NW 1/4 sec. 14, 50 ft. W. of dwelling, in root of 28-in. oak tree; copper nail 828.97

T. 40 N., R. 17 W., in SW 1/4 NW 1/4 sec. 14, 90 ft. SE. of T-rd. S., in root of 12-in. oak tree; copper nail 841.41

T. 40 N., R. 17 W., about 500 ft. S. of cor. sec. 11, 12, 13, and 14, 250 ft. NW. of school, 30 ft. E. of rd. forks, in root of 30-in. oak tree; copper nail 834.00

T. 40 N., R. 17 W., in SE 1/4 NW 1/4 sec. 12, near old site of Gladstone, 80 ft. S. of water edge of Lake of the Ozarks, 15 ft. W. of old rd., in concrete post; standard tablet stamped "T T 252 B 1932" 663.00

Lake of the Ozarks, at Gladstone; surface of water at 4 p.m. Sept. 12, 1932 656.0

7. FROM SEC. 19, T. 40 N., R. 17 W., SOUTHWEST TO SEC. 56, T. 40 N., R. 18 W., THENCE NORTHWEST INTO GRAVOIS MILLS QUADRANGLE

T. 40 N., R. 17 W., in NW 1/4 SE 1/4 sec. 19, 50 ft. W. of dwelling, 12 ft. S. and 27 ft. N. from State Highway 5 at rd. W., in root on W. side of 26-in. oak tree; copper nail and washer 298.45

T. 40 N., R. 17 W., in SW 1/4 SW 1/4 sec. 19, 90 ft. S. and 95 ft. E. from rd. E. of H. E. Landrun, 10 ft. S. of rd., in root on S. side of 20-in. oak tree; copper nail and washer 785.06

T. 40 N., R. 18 W., in NW 1/4 NE 1/4 sec. 36, 70 ft. N. (1) and 20 ft. E. (1) from rd. forks, in concrete post; standard tablet stamped "T T 345 C W A 1934" 678.88

Reference mark, 96 ft. N. and 16 ft. W. from tablet, in root on S. side of 12-in. oak tree; copper nail and washer 681.05

T. 40 N., R. 18 W., in NW 1/4 SW 1/4 sec. 25, about 300 ft. SE. of farm house of Frank Sutton, 21 ft. W. of rd., in root on N. side of 22-in. oak tree; copper nail and washer 712.17

T. 40 N., R. 18 W., in SW 1/4 SW 1/4 sec. 23, 8 ft. S. and 66 ft. E. from SE. corner of farm house of Frank Jenkins, 12 ft. S. of rd., in root on NE. side of 21-in. elm tree; copper nail and washer 782.26
SPIRIT LEVELING IN MISSOURI

T. 1*0 N., R. 22 W., near center sec. 22, 10 ft. S. and 1*5 ft. E. from rd. forks at mail box of William Moore, in concrete post; standard tablet stamped "T T 516 C W A 1934"

Reference mark, 21 ft. W. of tablet, in root on W. side of 22-ln. post-oak tree; copper nail and washer
T. 1*0 N., R. 18 W., In SW 1/4 NE 1/4 sec. 15, 25 ft. E. of rd., at top of well, 21 ft. W. of rd., in root on E. side of 10-ln. oak tree; copper nail and washer
Proctor, 1.2 mi. S. of, In SW 1/4 NE 1/4 sec. 16, T. 1*0 N., R. 18 W., about 0.2 mi. NE. of dwelling of Leo Holst, 109 ft. W. of Y-rd., in root on SE. side of 26-ln. white-oak tree; copper nail and washer
Proctor, 1*0 ft. S. and 60 ft. E. from NE. corner of old post office building, in concrete post; standard tablet stamped "T T 517 C W A 1934"

Reference mark, 105 ft. N. 45° W. of tablet, on center of W. side of well in concrete post; chiseled square

(Continued in Gravois Mills quadrangle; see line 8.)


Oklahoma Springs, 1 mi. E. and 1 mi. N. from, in SW 1/4 NE 1/4 sec. 15, T. 39 N., R. 19 W., at top of ridge, on property of Fred Rowland, 25 ft. W. of rd., in root on W. side of 24-ln. red-oak tree; copper nail and washer

1,025.61

(Continued in Cross Timbers quadrangle; see line 5.)


Gravois Mills, 5.2 mi. S. of, In SE 1/4 NE 1/4 sec. 7, T. 40 N., R. 17 W., at junction of private rd. E. and W., W. of rd., in root of 24-ln. oak tree; copper nail and washer

Gravois Mills, 5.8 mi. S. of, In SE 1/4 sec. 7, T. 40 N., R. 17 W., at junction of rd. W., on E. end of side rd. culvert; chiseled square

For an additional level line along U.S. Highway 54, refer to United States Coast and Geodetic Survey second-order line, Linn Creek to Brownstown.

GRAVOIS MILLS QUADRANGLE
(Latitude 38°15'-38°30'; longitude 92°45'-93°00')

Morgan County

1. ISOLATED BENCHMARKS (not shown on diagram; by O. Laurgaard in 1902)

Hunter triangulation sta.; U.S.C. & G.S. copper bolt designated "Hunter"
Versailles, in SW. corner of foundation of courthouse; aluminum tablet stamped "1037 Versa"

Versailles, 5-3 mi. W. of, along Missouri Pacific R.R., about 300 ft. W. of bridge 23 over Straight Fork of Moreau Creek, in flat stone; aluminum tablet stamped "903 Versa"

902.272

1,067.367

1,055.835
Versailles North Base triangulation sta.; U.S.C. & G.S. standard disk stamped "Versailles North Base 1880" 1,056.612

Feet

Versailles North Base triangulation sta.; U.S.C. & G.S. standard disk stamped "818 Vrlsa" 816.350


Gravels Mills, in foundation of store of J. T. Washburn; aluminum tablet stamped "673 Vrlsa" 671.438

Proctor, in front of Talbot dwelling, in foundation; standard tablet stamped "652 Vrlsa" 650.330

2. FROM COLE CAMP QUADRANGLE AT SEC. 27, T. 1 1/2 N., R. 19 W., EAST TO SEC. 23, T. 12 N., R. 19 W., THENCE NORTH ALONG ROAD (now State Highway 135) TO SEC. 11, T. 12 N., R. 19 W., THENCE EAST TO SEC. 6, T. 12 N., R. 18 W., THENCE EAST ALONG STATE HIGHWAY 52 TO VERSAILLES (by C. E. Reick in 1932)

(Continued from Cole Camp quadrangle; see line 1.)

T. 12 N., R. 19 W., in SW 1/4 sec. 23, 140 ft. S. of rd. forks (now on State Highway 135), in front porch of Pleasant Grove School; standard tablet stamped "T 228 B 1932" 1,155.829

T. 12 N., R. 19 W., near center sec. 14, 70 ft. S. of crossroads, in cherry tree; copper nail 1,092.32

T. 12 N., R. 19 W., in NE 1/4 sec. 11, 20 ft. E. of rd. forks (now on State Highway 135), in base of corner fence post; spike 1,111.35

T. 12 N., R. 19 W., near center sec. 6, about 8 ft. W. of Versailles, in N. side of W. pier of Chicago, Rock Island & Pacific Ry, bridge over Middle Richland Creek; standard tablet stamped "31 R 1932" 1,005.194

T. 12 N., R. 18 W., S. sixteenth cor. sec. 5, 30 ft. NE. of crossroads, on head wall of culvert; chiseled square 1,085.62

T. 12 N., R. 18 W., in SW 1/4 sec. 4, N. of highway, on head wall of culvert; chiseled square 1,074.62

Versailles, 1.5 mi. W. of, near center sec. 5, 30 ft. W. of crossroad, in concrete culvert; bolt 1,016.06

Versailles, 5 mi. W. of, 25 ft. NW. of junction of rd. N., in concrete retaining wall; standard tablet stamped "32 R 1932" 1,077.401

Versailles, 1.5 mi. W. of, on NW. corner of bridge over Straight Fork of North Fork Creek; chiseled square 998.59

3. FROM SEC. 25, T. 12 N., R. 19 W., SOUTHEAST TO BOWERS TRIANGULATION STATION (single-run unchecked spur line by C. E. Reick in 1932)

T. 12 N., R. 19 W., in NE 1/4 sec. 35, 30 ft. W. of rd. (now State Highway 135), in root of 12-in. oak tree; spike 1,158.62

Bowers triangulation sta.; U.S.C. & G.S. standard disk designated "Bowers 1928" (not tied to line) (none)

Reference mark 2; U.S.C. & G.S. standard reference disk 1,175.396

4. FROM ELDON QUADRANGLE AT SEC. 36, T. 14 1/2 N., R. 17 W., NORTH-WEST AND WEST TO SEC. 26, T. 14 1/2 N., R. 18 W., THENCE SOUTHEAST TO SEC. 12, T. 14 1/2 N., R. 18 W., THENCE SOUTHWEST TO SEC. 32, T. 14 1/2 N., R. 18 W. (by J. H. Vinyard in 1934)

(Continued from Eldon quadrangle; see line 4.)

T. 14 1/2 N., R. 17 W., near center sec. 36, on Coal Bank Road at junction of rd. N. and private rd. S., S. of rd., at gatepost, in root of 18-in. tree; copper nail and washer 953.90

T. 14 1/2 N., R. 17 W., in SW 1/4 NW 1/4 sec. 25, 62 ft. E. of junction of rd. N., 26 ft. N. of Coal Bank Road, in concrete post; standard tablet stamped "T 355 CWA 1934" 981.74

Reference mark, 90 ft. E. of tablet, in root of 6-in. oak tree; copper nail and washer 979.12

Versailles, 5 mi. S. of, along Coal Bank Road, in NW 1/4 sec. 26, T. 14 1/2 N., R. 17 W., opposite junction of rd. E., at gate to wooded pasture, in root of 15-in. oak tree; copper nail and washer 951.48

Versailles, 1 mi. SE. of, along Coal Bank Road, near center of SE 1/4 sec. 22, T. 14 1/2 N., R. 17 W., near farmhouse, S. of rd., on N. head wall of culvert; chiseled square 776.14

Versailles, 2.5 mi. S. and 1.5 mi. E. from, in NW 1/4 SE 1/4 sec. 21, T. 14 1/2 N., R. 17 W., 27 ft. N. and 27 ft. E. from crossroads, in fence corner; in concrete post; standard tablet stamped "T 356 CWA 1934" 776.098

Reference mark, 300 ft. E. of tablet, 15 ft. S. of fence, in root of 20-in. white-oak tree; copper nail and washer 752.89

Versailles, 5 mi. S. of, in NW 1/4 sec. 29, T. 12 N., R. 17 W., 0.8 mi. E. of State Highway 5, opposite T-rd. S., 10 ft. inside fence, in root of 25-in. white-oak tree; copper nail and washer 895.19

Versailles, 5 mi. S. of, along State Highway 5, near center sec. 30, T. 12 N., R. 17 W., opposite junction of rd. N., in root of 12-in. oak tree; copper nail and washer 972.68
Versailles, 3 mi. S. of, along State Highway 5, near S. sixteenth cor.
sec. 19, T. 42 N., R. 17 W., 30 ft. N. of junction of rd. N., in
fence corner, in concrete post; standard tablet stamped "T T 51 96
C W A 1934".

T. 42 N., R. 18 W., near center sec. 26, 100 ft. E. of rd., at gate to
orchard, in root of 18-in. black-oak tree; copper nail and washer

T. 42 N., R. 18 W., in NE 1/4 SW 1/4 sec. 24, at bottom of hill, near
farmhouse at ford across creek, E. of rd., in root of 21-in. white-oak
tree; copper nail and washer

T. 42 N., R. 18 W., in NE 1/4 SE 1/4 sec. 26, 120 ft. S. of rd. forks, in
concrete post; standard tablet stamped "T T 556 C W A 1934"

Reference mark, 100 ft. S.E. of tablet, in root of 21-in. black-oak tree;
copper nail and washer

white-oak tree; copper nail and washer

elm tree; copper nail and washer

T. 42 N., R. 18 W., in SW 1/4 sec. 1, in front of log farmhouse, in root
of 30-in. oak tree; copper nail and washer

T. 42 N., R. 18 W., in NE 1/4 NE 1/4 sec. 12, 40 ft. S. and 35 ft. W. (?)
from rd. fork SW., in NW. corner of yard of L. O. Williams, in
concrete post; standard tablet stamped "T T 559 C W A 1934"

Reference mark, 15 ft. N. of tablet, in root of 21-in. maple tree; copper
nail and washer

T. 41 N., R. 18 W., in NW 1/4 sec. 13, 141/2 mi. S. of Meyers Store, on N.
end of concrete porch of Hubbard School; chiseled square

T. 41 N., R. 18 W., in SW 1/4 sec. 31, 41/2 mi. N. of Hubbard School, near
rd. corner SE.-SW., at farmhouse, in root of 10-in. walnut tree; copper
nail and washer

T. 41 N., R. 18 W., in NW 1/4 NE 1/4 sec. 22, 57 ft. NW. of dwelling of
C. B. Wilson, 102 ft. S. of rd., in concrete post; standard tablet
stamped "T T 51 9 C W A 1934"

T. 41 N., R. 18 W., in NE 1/4 sec. 21, at rd. corner E.-S., in front of
log farmhouse, in root of 30-in. black-oak tree; copper nail and washer

T. 41 N., R. 18 W., in SW 1/4 sec. 21, at rd. corner, 200 ft. E. of County
Road 9, S. of rd., at gate to field, in root of 18-in. black-oak tree;
copper nail and washer

T. 41 N., R. 18 W., in NW 1/4 NE 1/4 sec. 29, 21 ft. W. of rd. at curve
E.-SW., 12 ft. S. of blazing 21-in. white-oak tree, in concrete post;
standard tablet stamped "T T 561 C W A 1934"

Reference mark, 10 ft. N. of tablet, in root of 21-in. oak tree; copper
nail and washer

at gate near ford across creek, in root of 20-in. elm tree; copper
nail and washer

T. 41 N., R. 18 W., in NW 1/4 NW 1/4 sec. 32, near rd. corner W.-S.,
at ford across creek near farmhouse, in root of 21-in. elm tree; staples

T. 41 N., R. 18 W., in SW 1/4 sec. 35, T. 42 N., R. 17 W., (by J. H. Vineyard in 1934)

Reference mark, 25 ft. E. of tablet, in crotch of triple oak tree; copper
nail and washer

T. 41 N., R. 18 W., in N 1/2 sec. 28, at E. side of schoolhouse, on N. end
of bottom step to porch; chiseled square

T. 42 N., R. 18 W., near cor. sec. 20, 21, 28, and 29, 80 ft. N.W. of
crossroads, in root of 30-in. black-oak tree; copper nail and washer

T. 42 N., R. 18 W., near quarter cor. between secs. 17 and 20, 28 ft. NE.,
thence 18 ft. SE. from crossroads, 9 ft. N. of blazed 30-in. black-oak
tree, in concrete post; standard tablet stamped "T T 552 C W A 1934"

Reference mark, 10 ft. from tablet, in root of 30-in. black-oak tree;
copper nail and washer

T. 42 N., R. 18 W., near center of SW 1/4 sec. 20, about 900 ft. S.E., of
farmhouse, about 200 ft. W. of creek on old rd., at junction of ravines,
in root of 30-in. white-oak tree; copper nail and washer

T. 42 N., R. 19 W., in sec. 25, in yard of farmhouse (burnt), in root of
middle one of three maple trees; copper nail and washer

T. 41 N., R. 19 W., near quarter cor. between secs. 13 and 24, W. of
lake near high-water mark, in root of 18-in. black-oak tree; copper
nail and washer

T. 41 N., R. 17 W., in SW 1/4 sec. 13, 0.5 mi. from lake, on top of
ridge, at cross trails, in root of blazed 10-in. oak tree; copper
nail and washer

T. 41 N., R. 17 W., in NW 1/4 SW 1/4 sec. 13, 0.5 mi. S. of old farmhouse,
along old trail, 90 ft. NE. of old 2-rd. E., 18 ft. N. of blazed black-
wood tree, in concrete post; standard tablet stamped "T T 1259 W A 1934"

Reference mark, 100 ft. N. of tablet, in root of 21-in. black-oak tree;
staples

(Continued from Eldon quadrangle; see line 5.)
T. 41 N., R. 17 W., in NE 1/4 sec. 11, at top of steep hill, in root of black-oak tree; copper nail and washer 849.96
T. 41 N., R. 17 W., near corner cor. between secs. 11 and 12, at junction of trails, in root of black-oak tree; copper nail and washer 898.88
T. 41 N., R. 17 W., in SW 1/4 sec. 11, at W. corner of triangle formed by junction of trails, opposite black-oak tree; copper nail and washer 924.56
T. 41 N., R. 17 W., in NW 1/4 sec. 10, at rd. forks near farmhouse, in root of tree; copper nail and washer 675.87
T. 41 N., R. 17 W., in NE 1/4 NE 1/4 sec. 9, at top of hill, S. of rd., in root of black-oak tree; copper nail and washer 781.95
T. 41 N., R. 17 W., in NW 1/4 NE 1/4 sec. 9, about 1/2 mi. 8. of State Highway 5, along rd. to Gravols Beach, 33 ft. N. and 28 ft. E. from rd. fork NE., in concrete post; standard tablet stamped "T T 1160 W 1931." 879.159
Reference mark, 100 ft. W. of tablet, on opposite side of rd., in root of 10-in. tree; copper nail and washer 882.06
T. 41 N., R. 17 W., in NE 1/4 sec. 8, at T-rd. S., 200 ft. S. of rd., in root of black-oak tree; copper nail and washer 996.34
T. 41 N., R. 17 W., in 8 1/2 sec. 5, 100 ft. E. of junction of rd. E., in root of black-oak tree; copper nail and washer 914.00
Gravols Mills, 0.8 mi. N. of, near store and filling sta., on W. head wall of culvert; chiseled square 664.71
Reference mark, 20 ft. S. of tablet, in root of 10-in. oak tree; copper nail and washer 875.56
Gravols Mills, 1.5 mi. S. of, in SW 1/4 sec. 5, T. 40 N., R. 17 W., at junction of rd. S., W. of highway, on right-of-way post; chiseled cross 812.85
(Continued in Versailles No. 3 quadrangle; see line 9.)


T. 40 N., R. 18 W., in NE 1/4 sec. 8, on bank of Sweetwater Branch, near farmhouse of Albert Bellamy, 150 ft. N. of rd. forks N. and E., 27 ft. N. of E. rd., in root on SE. side of 20-in. walnut tree; copper nail and washer 680.00
T. 40 N., R. 18 W., in NW 1/4 sec. 8, on concrete step at SW. side of Proctor School; chiseled square 688.64
Lake of the Ozarks; surface of water at 9 a.m. Oct. 22, 1934 651.9
Proctor, in foundation at front of Talbot dwelling; standard tablet stamped "652 VRsLs" 650.330
T. 40 N., R. 18 W., in NW 1/4 NW 1/4 sec. 5, on E. bank of Proctor Creek at rd. crossing, 1/4 ft. W. of junction of rds. NW. and E., in root on N. side of 24-in. elm tree; copper nail and washer 698.10
T. 40 N., R. 18 W., near S. sixteenth cor. sec. 31, about 2 mi. NW. of Proctor School, 15 ft. N. of rd., 10 ft. S. and 12 ft. W. from 24-in. black-oak tree used for corner gate post, in concrete post; standard tablet stamped "T T 5k8 C W A 1936." 879.158
Reference mark, 10 ft. N. of tablet, in root on S. side of 18-in. white-oak tree; copper nail and washer 879.54
Little Buffalo Store, 1 mi. S. of, in NW 1/4 NE 1/4 sec. 2, T. 40 N., R. 19 W., at top of ridge, 21 ft. W. of rd., in root on E. side of 10-in. red-oak tree; copper nail and washer 966.00
(Continued in Cole Camp quadrangle; see line 1.)
9. FROM ELDON QUADRANGLE AT SEC. 13, T. 53 N., R. 17 W., WEST INTO COLE CAMP QUADRANGLE AT SEC. 10, T. 53 N., R. 19 W.
(by C. P. Thompson in 1934)
(Continued from Eldon quadrangle; see line 7.)

T. 53 N., R. 17 W., near center of NE 1/4 sec. 11, 23 ft. N. and 60 ft. W. from water bridge over Smith Fork Creek, 10 ft. N. of rd., in concrete on W. side of 24-in. elm tree; copper nail and washer

Feet

928.39

T. 53 N., R. 17 W., N. sixteenth cor. between secs. 11 and 15, 321 ft. S. and 8 ft. W. from T-rd. E., on concrete abutment at NW. corner of bridge; chiseled square

952.14

T. 53 N., R. 17 W., near quarter cor. between secs. 10 and 15, at top of hill, in N. corner of yard of Prairie Valley School, 17 ft. S. of rd., in root on W. side of 20-in. maple tree; copper nail and washer

1,002.49

Versedailles North Base triangulation sta.; U.S.C. & G.S. standard disk stamped "Versedailles North Base 1850"

1,056.642

Reference mark, 56 ft. S. and 110 ft. W. from disk, on E. end of S. head wall of concrete culvert; chiseled square

1,049.14

T. 53 N., R. 17 W., near N. sixteenth cor. between secs. 17 and 18, 18 ft. N. of rd., in root on S. side of 30-in. elm tree; copper nail and washer

996.13

(For balance in Tipton quadrangle, see line 4.)


901.641

T. 53 N., R. 18 W., near cor. secs. 11, 12, 13, and 14, in front yard of O. S. Sanford, 36 ft. N. of rd., in root on SE. side of 30-in. black locust tree; copper nail and washer

968.54

T. 53 N., R. 18 W., near N. sixteenth cor. between secs. 11 and 14, 15 ft. N. and 100 ft. E. from T-rd. N., in stable lot on property of Mary Lampkins, in root on SE. side of 20-in. walnut tree; copper nail and washer

986.80

T. 53 N., R. 18 W., near quarter cor. between secs. 10 and 15, 92 ft. N. of dwelling of Author Salter, 30 ft. N. of rd., in root on SW. side of 20-in. post-oak tree; copper nail and washer

979.26

T. 53 N., R. 18 W., W. sixteenth cor. between secs. 10 and 15, 55 ft. N. and 16 ft. W. from T-rd. N., in root on S. side of 22-in. white-oak tree; copper nail and washer

902.03

T. 53 N., R. 18 W., near cor. secs. 9, 10, 15, and 16, 135 ft. W. of Richland Creek, 10 ft. S. of rd., on S. head wall of concrete culvert; chiseled square

851.76

T. 53 N., R. 18 W., in NE 1/4 sec. 17, at top of hill, about 700 ft. W. of old crossroads, on wooded land, 20 ft. N. of rd., in root on SE. side of 22-in. white-oak tree; copper nail and washer

1,000.98

T. 53 N., R. 18 W., in NW 1/4 sec. 17, on E. bank of Richland Creek, 30 ft. S. of rd., in root on N. side of 24-in. black-oak tree; copper nail and washer

950.66

Reference mark, 500 ft. W. of rd., in root on N. side of 24-in. oak tree; copper nail and washer

891.34


1,002.02

T. 53 N., R. 19 W., E. cor. secs. 12 and 13, 42 ft. N. and 15 ft. W. from rd. corner N.-W., in root on N. side of 20-in. white-oak tree; copper nail and washer

982.16


1,002.37


1,083.021

Reference mark, 50 ft. N. of tablet, in root on W. side of 12-in. post-oak tree; copper nail and washer

1,059.87

(Continued in Smithton quadrangle; see line 2.)

For additional level lines along Missouri Pacific R.R. and Chicago, Rock Island & Pacific Ry., refer to United States Coast and Geodetic Survey first-order line, Tipton to Versailles; and second-order lines, Versailles to Windsor and Mansfield to Versailles.
1. FROM SMITHTON QUADRANGLE EAST ALONG U.S. HIGHWAY 50 TO TIPTON
(by F. C. Lentz in 1936)

Otterville, 1 mi. N. of, 45 ft. E. of junction of rd. S., at SW. corner of bridge over Lamine River, on top of concrete abutment; chiseled square

Otterville, 2 mi. NE. of, 75 ft. S. and 235 ft. W. from junction of rd. N. and dim rd. S., in root on NW. side of twin 26-in. white-oak tree; copper nail and washer

Otterville, 3 mi. NE. of, 70 ft. S. and 145 ft. E. from SE. corner of dwelling, 30 ft. N. of highway, 1 ft. E. of fence, in concrete post; standard tablet stamped "10 L 1936"

Otterville, 3.7 mi. E. of, 110 ft. S. and 200 ft. E. from junction of rd. E., 50 ft. SW. of highway, on head wall of concrete culvert; chiseled square

Crossroad, SE. of, on concrete head wall of culvert; chiseled square

Syracuse, 2.6 mi. NW. of, at Cooper-Morgan county line, 30 ft. N. and 70 ft. E. from junction of State Highway 5, 10 ft. S. of Missouri Pacific R.R., on concrete underpass abutments; chiseled square

Syracuse, 1.5 mi. W. of, 135 ft. NW. of junction of rd. S., 20 ft. NE. of highway, on head wall of concrete culvert; chiseled square

Syracuse, 0.9 mi. W. of, 100 ft. E. of junction of rd. W., 30 ft. S. of highway, on head wall of concrete culvert; chiseled square

Syracuse, 0.0 ft. S. and 60 ft. E. from junction of County Route D, in concrete post; standard tablet stamped "12 L 1936"

Syracuse, 0.7 mi. E. of, 30 ft. S. and 10 ft. W. from junction of rd. S., on head wall of concrete culvert; chiseled square

Syracuse, 1 mi. E. of, 90 ft. N. and 35 ft. E. from junction of State Highway 5, 10 ft. S. of Missouri Pacific R.R., on concrete underpass abutments; chiseled square

Syracuse, 2 mi. E. of, 300 ft. E. of Moniteau-Morgan county line, 60 ft. S. of Missouri Pacific R.R., 25 ft. N. of highway, on concrete head wall of culvert; chiseled square

Tipton, 2.4 mi. N. of, 40 ft. S. and 40 ft. E. from crossroad, 2 ft. N. of fence line, in concrete post; standard tablet stamped "13 L 1936"

Tipton, 1.9 mi. W. of, 150 ft. S. of Missouri Pacific R.R. opposite milepole 164.30, at curve, 20 ft. N. of highway, on head wall of concrete culvert; chiseled square

Tipton, 1 mi. W. of, 20 ft. S. of Missouri Pacific R.R. at rd. crossing, at milepole 165.56, in concrete base of crossing marker; chiseled square

U.S.C. & G.S. B.M. XXXV

2. FROM SMITHTON QUADRANGLE SOUTH ALONG COUNTY ROUTE A (now State Highway 135) TO FLORENCE, THENCE EAST ALONG ROADS INTO CALIFORNIA QUADRANGLE AT SEC. 12, T. 14 N., R. 17 W.
(by F. C. Lentz in 1936)

(Continued from Smithton quadrangle; see line 9.)

Florence, 2 mi. N. of, about 350 ft. S. of junction of rd. W., 110 ft. SW. of highway at curve, in root on NW. side of 30-in. walnut tree; copper nail and washer

Florence, 1 mi. NW. of, about 400 ft. S. of dwelling, 35 ft. E. of highway at curve, in root on W. side of 14-in. white-oak tree; copper nail and washer

Florence, near NW. edge of, at junction of rd. W.; top of concrete right-of-way post

U.S.C. & G.S. B.M. XXXV

Reference mark, 15 ft. N. and 125 ft. W. from tablet, in root of 12-ln. black-oak tree; copper nail and washer


Reference mark, 15 ft. N. and 125 ft. W. from tablet, in root of 12-ln. black-oak tree; copper nail and washer.

Stover Creek, on W. bank of, at rd. crossing, in root of twin 12-ln. maple tree; copper nail.
4. FROM GRAVOIS MILLS QUADRANGLE AT SEC. 7, T. 43 N., R. 17 W.,
WEST INTO GRAVOIS MILLS QUADRANGLE AT SEC. 12, T. 43 N.,
R. 15 W. (by O. P. Thompson in 1931)

(Continued from Gravols Mills quadrangle; see line 9.)


(Continued in Gravois Mills quadrangle; see line 9.)

For additional level lines along Missouri Pacific R.R., refer to United States Coast and Geodetic Survey first-order lines, Jefferson City to Pleasant Hill and Tipton to Versailles.

PILOT GROVE QUADRANGLE
(Latitude 38°45'–39°00'; longitude 92°45'–93°00')
Cooper and Howard Counties


T. 46 N., R. 19 W., in SE 1/4 sec. 2, at rd. corner, in root of white-oak tree; nail

T. 46 N., R. 19 W., in SE 1/4 sec. 2, 0.2 mi. W. of crossroads, 10 ft. SW. of fence corner, in root of small red-oak tree; nail


Reference mark, 0.2 mi. S. of tablet, in NE. corner of Brubaker’s yard, in root on E. side of maple tree; nail and washer

New Lebanon, 0.4 mi. S. of, at NE. corner of cemetery, in NE. cornerstone of fence; (mark not described)

T. 46 N., R. 18 W., in NW 1/4 sec. 17, 300 ft. E. of gate to farm of G. L. Thomas, on S. head wall of concrete culvert; chiseled square

T. 46 N., R. 18 W., quarter cor. between secs. 16 and 17, 20 ft. N. and 20 ft. S. from fence corner, in concrete post; standard tablet stamped "15 C W A 1931"

Reference mark, 270 ft. E. of tablet, in fence line N. of rd., in stump; copper nail and washer

T. 46 N., R. 18 W., quarter cor. between secs. 15 and 16, 10 ft. S. and 25 ft. E. from junction of rd., on S. head wall of stone culvert; chiseled square

T. 46 N., R. 18 W., near center sec. 15, N. of rd., in root of large elm tree; copper nail and washer

T. 46 N., R. 18 W., near quarter cor. between secs. 14 and 15, in fence line N. of rd., in root of 10-in. elm tree; copper nail and washer

T. 46 N., R. 18 W., near quarter cor. between secs. 13 and 14, 20 ft. N. and 20 ft. E. from State Highway 5 at crossroad, in concrete post; standard tablet stamped "16 C W A 1931"

Reference mark, 350 ft. E. of tablet, S. of rd., near fence, in W. side of 34-in. walnut tree; copper nail and washer
2. FROM BOONVILLE QUADRANGLE AT SEC. 11, T. 17 N., R. 17 W., WEST 70 SSO. 9, T. 17 N., R. 19 W. (By E. A. Barnes in 1931)

(Continued from Boonville quadrangle; see line 5)

T. 17 N., R. 17 W., about 0.4 mi. W. of quarter cor. between secs. 10 and 11, 120 ft. W. of SW. corner of Lone Elm School, in 36-in. locust tree; nail


Speed, in SE 1/4 sec. 9, T. 17 N., R. 17 W., in front of drug store, on SE. corner of concrete walk; chiseled square


Pilot Grove, 6 ft. W. of rd., in root of 18-in. white-oak tree; copper nail and washer

Pilot Grove, 63 ft. S. and 114 ft. E. of rd., in root of 18-in. white-oak tree; copper nail and washer


Pilot Grove, about 2.2 mi. N., and 0.2 mi. N. from, about 0.2 mi. N. of Oakland School, 20 ft. S. and 60 ft. E. from T-rd., in front yard of dwelling of Mike Meyer, in concrete post; U.S.C. & G.S. and State Survey standard tablet

Pilot Grove, 1 mi. E. of, near cor. secs. 3, 4, 33, and 34, T. 17 N. and 18 N., R. 18 W., 20 ft. S. of rd., in root of 20-in. white-oak tree; spike

Pilot Grove, 88 ft. S. of intersection of Second and Row Streets, 11 ft. S. of flagpole, in SW. corner of concrete well curbing; standard tablet stamped 10" C W A 1931

Reference mark, 75 ft. SW. of tablet, at entrance to building, on base of iron column; chiseled square

Pilot Grove, 0.2 mi. S. of, in SW 1/4 sec. 5, 17 N., R. 18 W., on S. end of E. wall of concrete culvert; chiseled square

Pilot Grove, 0.5 mi. S. of, in SW 1/4 sec. 5, 17 N., R. 18 W., on S. end of wall of small concrete culvert; chiseled square

Pilot Grove, 0.5 mi. S. of, then 0.5 mi. W. from, in SW 1/4 sec. 5, T. 17 N., R. 18 W., on bottom step of Wesley Chapel; chiseled cross

T. 17 N., R. 18 W., near cor. secs. 5, 6, 7, and 8, 120 ft. W. of Missouri-Kansas-Texas R.R., 50 ft. N. of rd., in root of 48-in. elm tree; copper nail and washer

T. 17 N., R. 18 W., near quarter cor. between secs. 6 and 7, 0.5 mi. W. of Missouri-Kansas-Texas R.R., on W. end of S. wall of concrete culvert; chiseled square

T. 17 N., R. 19 W., R. 19 W., near quarter cor. between secs. 1 and 12, on W. end of S. wall of concrete culvert; chiseled square

T. 17 N., R. 19 W., near quarter cor. between secs. 2 and 11, in SW. corner of bottom step of St. Paul's Evangelical Church; standard tablet stamped 10" C W A 1931

Reference mark, 50 ft. S. and 20 ft. E. from tablet, on concrete block; chiseled square

T. 17 N., R. 19 W., in SW. cor. sec. 2, on E. end of N. wall of concrete culvert; chiseled square

T. 17 N., R. 19 W., in SW. cor. sec. 2, on E. end of N. wall of concrete culvert; chiseled square

T. 17 N., R. 19 W., near quarter cor. between secs. 9 and 10, 2 ft. N. and 26 ft. W. from NW. corner of farmhouse of Teresa Swenton, 65 ft. E. of rd., in concrete post; standard tablet stamped 10" C W A 1931

Reference mark, 100 ft. W. of tablet, on NE. corner of concrete well block; chiseled square

Foot

864.28
864.70
871.25
873.68
888.11
881.99

872.79
819.675
816.211
667.00
779.502
813.968
808.92
769.90
657.66
694.677
708.922
787.96
808.680
821.89
808.24
843.465
822.13
833.475
825.01
802.95
617.967
612.79

(Continued from Nelson quadrangle; see line 3)

Feet

414.0.01

T. 14 N., R. 19 W., near quarter cor. between secs. 3 and 10, 800 ft. N. of rd. E. to Pilot Grove, 20 ft. W. of rd., in root on E. side of 20-in. oak tree; nail

401.43

T. 14 N., R. 19 W., 0.5 mi. S. of farmhouse of J. P. Mueller, 25 ft. N. of rd., in root, on SW. side of 30-in. white-oak tree; copper nail and washer

(For balance in Nelson quadrangle, see line 3.)

4. FROM GLASGOW QUADRANGLE AT SEC. 23, T. 14 N., R. 19 W., SOUTH ALONG ROADS (now County Route K) TO SEC. 11, T. 14 N., R. 19 W. (by G. R. Hamlin in 1936)

(Continued from Glasgow quadrangle; see line 4.)

For additional level lines along south bank of Missouri River and U.S. Highway 60, refer to United States Coast and Geodetic Survey first-order line, Jefferson City to Kansas City; and second-order line, Lexington to Boonville.
GLASGOW QUADRANGLE
(Latitude 39°00'–39°15'; longitude 92°51'–93°00')
Chariton, Cooper, Howard, and Saline Counties

1. FROM GLASGOW EAST ALONG ALTON RAILROAD INTO PAYETTE QUADRANGLE
   (by D. V. Vandiver in 1905)

   U.S.C.E. B.M. designated "159=14.7/3"
   Copper bolt
   Steinmetz, 95 ft. S. and 95 ft. E. from sta., 140 ft. S. of track, at
   NW. corner of former post office building, set vertically in W. face
   of stone foundation; aluminum tablet stamped "1905 800 AdJ"

   (Continued in Huntsville quadrangle; see line 1.)

2. FROM STEINMETZ SOUTH INTO PAYETTE QUADRANGLE AT SEC. 5, T. 50 N.,
   R. 16 W. (by B. D. Harsha in 1934)

   T. 51 N., R. 16 W., about 300 ft. S. of quarter cor. between secs. 7 and
   10, at bridge over branch; surface of floor
   T. 51 N., R. 16 W., near center sec. 19, 15 ft. S. and 75 ft. W. from
   bridge, 10 ft. W. of rd., at rd. corner N.-W., in roof on S. side
   of 10-in. hickory tree; copper nail and washer
   T. 51 N., R. 16 W., near W. sixteenth cor. sec. 18, at bridge over branch;
   surface of floor
   T. 51 N., R. 16 W., near cor. secs. 13, 18, 19, and 24, 80 ft. W.
   and 20 ft. E. from T-rd. N., in roof on S. side of local box-elder
   tree; copper nail and washer
   T. 51 N., R. 16 W., near center of NW 1/4 sec. 18, at rd. forks, 12 ft.
   S. and 10 ft. W. from telephone pole; surface of rd.
   T. 51 N., R. 16 W., in SW 1/4 sec. 19, 10 ft. S. and 25 ft. W. from
   bridge over Hurricane Creek, in root on NE. side of 10-in. cedar
   tree; copper nail and washer
   T. 51 N., R. 16 W., near quarter cor. between secs. 19 and 30, at bridge
   over branch; surface of floor

   (For balance in Fayette quadrangle, see line 3.)

   T. 51 N., R. 16 W., about 1,000 ft. S. of center sec. 30, 10 ft. W. of
   rd., in fence line, in root on SE. side of lone 36-in. elm tree; notch
   T. 51 N., R. 16 W., about 600 ft. S. of quarter cor. between secs. 30
   and 31, in front of farmhouse of J. W. Gibbes, 18 ft. W. of rd.,
   in root on NE. side of 36-in. locust tree; copper nail and washer
   T. 51 N., R. 16 W., about 400 ft. S. of center sec. 31, 15 ft. W. of
   rd., in root on NE. side of 10-in. elm tree; notch
   T. 51 N., R. 16 W., in SE 1/4 SW 1/4 sec. 32, about 600 ft. E. of rd.
   NW., 10 ft. N. of rd. at dip, in fence line, in root on NW. side
   of lone 36-in. elm tree; copper nail and washer
   T. 51 N., R. 16 W., near N. sixteenth cor. between secs. 5 and 6, opposite
   first post N. of corner post of fence N. of farmhouse of E. W. Beagrove;
   surface of rd.

   (Continued in Fayette quadrangle; see line 3.)

3. FROM STEINMETZ WEST ALONG ALTON RAILROAD TO GLASGOW (by
   B. D. Harsha in 1934)

   Steinmetz, about 1 mi. W. of S. of R.R., at NE. corner of foundation of
   semaphore 128; top of bolt

   Feet
   616.350
   798.262
   747.5
   760.48
   734.8
   766.96
   756.92
   766.8
   890.6
   905.27
   863.7
   847.83
   873.6
   956.00
SPIRIT LEVELING IN MISSOURI

5. FROM GILLIAN EAST ALONG STATE HIGHWAY 210 TO SEC. 1, T. 51 N., R. 19 W. (by G. R. Hamlin in 1936)

T. 51 N., R. 19 W., quarter cor. between secs. 3 and 4, 25 ft. N. and 30 ft. W. from junction of rd. S., on S. end of W. concrete head wall of culvert; chiseled square

T. 51 N., R. 19 W., near center sec. 3, 18 ft. N. and 15 ft. W. from crossroad, on W. end of N. concrete head wall of culvert; chiseled square

T. 51 N., R. 19 W., near quarter cor. between secs. 1 and 2, 25 ft. N. and 30 ft. E. from crossroad, on W. end of N. concrete head wall of culvert; chiseled square

U.S.C.S. B.M. designated "162"
Copper bolt
Top of cap

For additional level lines along Wabash Ry. and west bank of Missouri River, refer to United States Coast and Geodetic Survey first-order lines; Minneapolis, Minn. to Glasgow, Mo. and Jefferson City to Kansas City.

SALISBURY QUADRANGLE
(Latitude 39°15'-39°30'; longitude 92°55'-93°00')
Chariton, Howard, and Saline Counties

1. FROM BRUNSWICK QUADRANGLE AT SEC. 20, T. 52 N., R. 19 W., NORTH-WEST INTO BRUNSWICK QUADRANGLE AT SEC. 17, T. 52 N., R. 19 W. (by G. R. Hamlin in 1936)

T. 52 N., R. 19 W., near cor. secs. 16, 17, 20, and 21, 10 ft. S. and 69 ft. W. from rd. forks NW., NE., and SW., in root on W. side of 15-in. hickory tree; copper nail and washer

(Continued from Brunswick quadrangle; see line 6.)

T. 52 N., R. 19 W., in S 1/2 sec. 12, 15 ft. W. of rd. forks NW., NE., and SW., in concrete post; standard tablet stamped "Prim Trvs Sta No L9 F 1926"

T. 54 N., R. 18 W., in S 1/2 sec. 12, 60 ft. N. and 15 ft. W. from rd. forks S., W., and NE., in root on SW. side of 12-in. white-oak tree; crossed nails

T. 54 N., R. 18 W., sixteenth cor. between secs. 13 and 14, 75 ft. N. and 25 ft. W. from rd. corner N.-W. and private rd. E., in root on W. side of 8-in. locust tree; copper nail and washer

2. FROM MARCELINE QUADRANGLE AT SEC. 12, T. 54 N., R. 18 W., SOUTH TO POINT 2.8 MILES WEST OF SALISBURY (by W. V. Kennedy in 1937)

T. 54 N., R. 18 W., in S 1/2 sec. 12, 15 ft. W. of rd. forks N., NE., and SW., in concrete post; standard tablet stamped "Firm Trvs Sta No L9 F 1926"
PART 7, CENTRAL MISSOURI, 1896-1938

T. 51 N., R. 18 W., quarter cor. between secs. 14 and 23, 200 ft. NE. of O'Byrne School, 15 ft. S. and 35 ft. W. from crossroads; on SE. corner of S. end of large concrete culvert; chiseled square

T. 51 N., R. 18 W., near S. sixteenth cor. sec. 23, 90 ft. S. and 10 ft. W. from T-rd. B., on W. end of iron pipe culvert; chiseled square

T. 51 N., R. 18 W., center sec. 26, 75 ft. S. and 30 ft. E. from crossroads, in root on NW. side of 10-in. post-oak tree; copper nail and washer

Kremel School, 15 ft. S. and 100 ft. W. from T-rd. S., on NE. corner of concrete platform of cistern; chiseled square

T. 51 N., R. 18 W., sixteenth cor. sec. 27, 10 ft. S. and 25 ft. E. from T-rd. N., on S. end of iron pipe culvert; chiseled square

T. 51 N., R. 18 W., in SE 1/4 SE 1/4 sec. 25, on SW. abutment of bridge across Chariton River; standard tablet (set by water-resources branch of U.S.Geol. Survey)

Small bridge, on SE. wing wall; chiseled square

T. 51 N., R. 17 W., quarter cor. between secs. 29 and 32, at S. side of yard of Colman School, 25 ft. N. and 70 ft. W. from crossroads, in root on S. side of 10-in. maple tree; copper nail and washer

T. 51 N., R. 17 W., in SE 1/4 sec. 32, 60 ft. N. and 50 ft. E. from T-rd. W., in SW. corner of farmyard, in root on NW. side of 15-in. maple tree; copper nail and washer

T-rd. N., 70 ft. N. and 20 ft. E. from, in root on N. side of 14-in. hickory tree; crossed nails

T. 53 N., R. 17 W., E.-sixteenth cor. sec. 5, 45 ft. N. and 20 ft. W. from junction of rd. N., in root on SE. side of 18-in. elm tree; copper nail and washer

T. 53 N., R. 17 W., center sec. 5, 25 ft. S. and 20 ft. E. from T-rd. S., on E. head wall of concrete culvert; chiseled square

T. 53 N., R. 17 W., quarter cor. between secs. 5 and 6, 12 ft. S. and 100 ft. E. from T-rd. N., in root on E. side of 16-in. wild-cherry tree; copper nail and washer


For additional level lines along Wabash Ry. and south bank of Missouri River, refer to United States Coast and Geodetic Survey first-order lines; Minneapolis, Minn. to Glasgow, Mo., Jefferson City to Kansas City; and second-order line, Hannibal, to Salisbury.

BRUNSWICK QUADRANGLE
(Latitude 39°15' to 39°30'; longitude 93°00' to 93°15')

Carroll, Chariton, and Saline Counties

1. FROM CARROLLTON QUADRANGLE NORTHEAST ALONG U.S. HIGHWAY 21 TO BRUNSWICK (by R. A. Barnes in 1936) (Continued from Carrollton quadrangle; see line 2.)

De Witt, 1 mi. W. of, 32 ft. S. and 36 ft. W. from crossroad, 2 ft. S. and 15 ft. W. from fence corner, in concrete post; standard tablet "10514. C W A 1930" (to be reset at same elevation) chiseled square

De Witt, at W. limits of, on W. end of concrete base of gasoline pumps; chiseled square

De Witt, at N. limits of, 40 ft. N. of N. corner of filling sta., 14 ft. E. of highway, on center of top concrete step of drain pit; chiseled square

De Witt, 1.5 mi. E. of, opposite Wabash Ry. bridge 503-C, 1 ft. S. of N. end at NE. corner of concrete bridge, on inside curb; chiseled square

Crossroad; surface of highway

726.576
753.92
719.83
661.07
659.5
De Witt, 3 1/4 mi. NW. of, 3 1/2 mi. SE. of Brunswick, 105 ft. NE. of crossroad, on inside curb at NW. corner of concrete bridge; chiseled square

Junction of rd. W.; surface of highway
Brookside, 3 1/2 mi. SW. of, 120 ft. SW. of junction of rd. SW., on inside curb at NW. corner of concrete bridge; chiseled square
Wabash Ry. at rd. crossing; top of S. rail
Brunswick, 1 1/2 mi. W., 96 ft. E. of junction of State Highway 11, on center of N. head wall of concrete culvert; chiseled square
U.S.C. & G.S. standard disk stamped "611 1930"

2. FROM SEC. 25, T. 53 N., R. 21 W., NORTH INTO CARRINGTON QUADRANGLE AT SEC. 10, T. 53 N., R. 21 W. (by B. A. Barnes In 1936)

Junction of driveway, 35 ft. N. and 30 ft. E. from, near farmhouse, in root on E. side of 28-in. wild-cherry tree; crossed nails
T. 53 N., R. 21 W., near cor. secs. 11, 15, 22, and 23, 25 ft. N. and 100 ft. E. from crossroads, in root on SW. side of 10-in. elm tree; nail and washer
T. 53 N., R. 21 W., quarter cor. between secs. 11 and 15, at Gwin School, 35 ft. N. and 200 ft. E. from crossroads, 2 ft. W. of flagpole, on concrete walk; chiseled square
T. 4 1/4 N., R. 21 W., in SE 1/4 NE 1/4 sec. 10, about 300 ft. NW. of rd. corner S.-NW., 30 ft. N. of rd., in root on NE. side of 2 1/2-in. cottonwood tree; nail
Bridge over Big Creek, on W. pier at upstream side of bridge; on top of bolt; chiseled cross

(Continued in Carrollton quadrangle; see line 3.)

3. FROM De WITT SOUTH TO SEC. 26, T. 53 N., R. 21 W. (by B. A. Barnes In 1936)

De Witt, about 0.7 mi. SW. of, in N 1/2 sec. 26, T. 53 N., R. 21 W., on highest ground in vicinity, U.S.C.E. iron post; top of cap
Reference mark; U.S.C. & G.S. standard reference disk

4. FROM CARRINGTON QUADRANGLE AT SEC. 18, T. 52 N., R. 21 W., SOUTHEAST TO SEC. 20, T. 52 N., R. 21 W., THEN SOUTH ALONG STATE HIGHWAY 11 INTO MARSHALL QUADRANGLE (by G. R. Hamlin In 1936)

(Continued from Carrollton quadrangle; see line 6.)
T. 52 N., R. 21 W., near quarter cor. between secs. 17 and 18, 26 ft. N. and 80 ft. W. from rd. forks N., W., and SE., 2 ft. N. of fence, in concrete post; standard tablet stamped "936 C W A 1934"
T. 52 N., R. 21 W., near center of NW 1/4 sec. 20, 20 ft. S. and 5 ft. E. from T-rd. N., in root on N. side of 12-in. black-oak tree; copper nail and washer
Rd. corer E.-S. at private rd. W., 10 ft. N. and 32 ft. E. from, on N. end of iron pipe culvert; chiseled square
Rd. corer E.-S., 70 ft. S. and 19 ft. W. from, in root on S. side of 6-in. locust tree; crossed nails
T. 52 N., R. 21 W., quarter cor. between secs. 20 and 21, 65 ft. S. and 39 ft. E. from crossroad, 38 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "1062 C W A 1936"
T. 52 N., R. 21 W., cor. secs. 20, 21, 28, and 29, 25 ft. S. and 22 ft. W. from junction of rd. E., on W. end of S. concrete head wall of culvert; chiseled square
T. 52 N., R. 21 W., near line between secs. 28 and 29, on E. end of S. concrete head wall of culvert; chiseled square
T. 52 N., R. 21 W., near quarter cor. between secs. 28 and 33, 20 ft. S. and 20 ft. W. from crossroad, on W. end of S. concrete head wall of culvert; chiseled square
T. 52 N., R. 21 W., in 1/2 sec. 33, on S. end of W. concrete head wall of culvert; chiseled square

(Continued in Marshall quadrangle; see line 3.)

5. FROM SEC. 21, T. 52 N., R. 21 W., NORTH TO SEC. 26, T. 53 N., R. 21 W. (by G. R. Hamlin In 1936)
T. 52 N., R. 21 W., quarter cor. between secs. 21 and 22, 30 ft. S. and 285 ft. W. from junction of abandoned rd. S., in root on N. side of twin 2 1/2-in. walnut tree; copper nail and washer
T. 52 N., R. 21 W., in 1/2 sec. 24, 15 ft. S. and 520 ft. W. from rd. corner W.-N., on S. end of iron pipe culvert; chiseled square
T. 52 N., R. 21 W., center of SW 1/4 sec. 11, 50 ft. S. and 20 ft. E. from County Route 6 at N.-S. crossroad, in root on S. side of triple hedge stump; copper nail and washer

Foot
613.44
610.3
615.00
615.74
619.80
616.02
616.62
745.84
697.42
705.04
621.23
611.62
806.136
795.551
691.20
778.93
781.27
813.68
762.055
727.79
699.51
724.70
755.36
751.15
700.155
742.19
785.47
T. 52 N., R. 21 W., near quarter cor. between secs. 10 and 11, 18 ft. S. and 15 ft. E. from T.-rd. N., on E. end of iron pipe culvert; chiseled square


Rd. corner S.-E., 70 ft. S. and 12 ft. E. from, in root on W. side of 11-in. elm tree; crossed nails

T. 52 N., R. 21 W., quarter cor. between secs. 34 and 35, 22 ft. N. and 18 ft. W. from crossroads, in root on E. side of 6-in. hedge tree; copper nail and washer

T. 52 N., R. 21 W., near quarter cor. between secs. 26 and 27, 12 ft. N. and 30 ft. W. from T.-rd. S., in root on E. side of 8-in. walnut tree; copper nail and washer

Bridge over drainage ditch, in NW. corner of N. steel girder; painted rivet

Hawkins triangulation sta.; Missouri River Commission iron post designated "Hawkins"

Top of cap

6. FROM SEC. 23, T. 52 N., R. 21 W., EAST TO SEC. 30, T. 52 N., R. 19 W., THENCE NORTHWEST TO NEW FRANKFORT, THENCE WEST TO SEC. 11, T. 52 N., R. 20 W. (by G. R. Hamlin in 1936)

Junction of private rd. W., 50 ft. S. and 12 ft. W. from, on S. end of W. concrete head wall of culvert; chiseled square

t. 52 N., R. 20 W., cor. sec. 28, 26, 67 ft. S. and 10 ft. E. from T.-rd. E., in root on W. side of 12-in. walnut tree; copper nail and washer

T. 52 N., R. 20 W., quarter cor. between secs. 25 and 26, 115 ft. N. and 27 ft. W. from crossroads, in root on W. side of 20-in. locust tree; copper nail and washer

T. 52 N., R. 20 W., 20 ft. S. and 37 ft. E. from T.-rd. N., near quarter cor. between secs. 25 and 30, 20 ft. N. and 80 ft. W. from rd. at hedge fence N., in root on S. side of triple wild-cherry tree; crossed nails

T. 52 N., R. 20 W., in SE 1/4 NW 1/4 sec. 30, 40 ft. W. and 18 ft. E. from junction of private rd. N. to farmhouses of Phillip Ryan, 21 ft. N. and 3 ft. E. from fence corner, in concrete post; standard tablet stamped "1076 C W A 1934"

T. 52 N., R. 20 W., W. sixteenth cor. sec. 29, 20 ft. N. and 102 ft. E. from T.-rd. N., in root on S. side of 12-in. hedge tree; copper nail and washer

T. 52 N., R. 20 W., quarter cor. between secs. 28 and 29, 90 ft. E. of County Route C at rd. W., in E.-W. fence line, in root on S. side of 12-in. hedge tree; copper nail and washer

T. 52 N., R. 20 W., 20 ft. S. and 33, 35 ft. S. and 30 ft. E. from County Route C at rd. E., in root on N. side of 30-in. cottonwood tree; copper nail and washer


T. 52 N., R. 20 W., on line between secs. 27 and 34, on E. side of S. concrete head wall of culvert; chiseled square

T. 52 N., R. 20 W., W. sixteenth cor. between secs. 26 and 35, 40 ft. S. of T.-rd. N., in fence line, in root on W. side of 10-in. hedge tree; copper nail and washer

T. 52 N., R. 20 W., cor. secs. 25, 26, 36, 55 ft. N. and 15 ft. E. from T.-rd. W., in root on S. side of 12-in. locust tree; copper nail and washer


T. 52 N., R. 19 W., center of SW. 1/4 sec. 30, 5 ft. S. and 20 ft. E. from rd. corner W.-N. and abandoned rd. S., in root on N. side of 15-in. elm tree; copper nail and washer

T. 52 N., R. 19 W., center of NE 1/4 sec. 30, 15 ft. S. and 270 ft. E. from T.-rd. N., in root on W. side of 10-in. black-oak tree; copper nail and washer

Rd. corner SW.-E., 18 ft. S. and 18 ft. E. from, in root on N. side of 24-in. elm tree; copper nail and washer

T. 52 N., R. 19 W., near quarter cor. between secs. 20 and 29, 49 ft. N. and 35 ft. E. from rd. forks N., E., and SW., 64 ft. N. and 10 ft. E. from 18-in. black-oak tree, 2 ft. W. of fence, in concrete post; standard tablet stamped "1079 C W A 1934"

(For balance in Salisbury quadrangle, see line 1.)

Culvert, at E. end of N. head wall; top of bolt

T. 52 N., R. 19 W., S. sixteenth cor. sec. 17, 26 ft. N. and 27 ft. E. from T.-rd. N., in root on E. end of N. head wall of concrete culvert; chiseled square

T. 52 N., R. 19 W., quarter cor. between secs. 8 and 17, 45 ft. S. and 12 ft. E. from 25-in. wing wall of steel bridge; chiseled New Frankfurt, 43 ft. S. and 21 ft. W. from crossroads, 8 ft. N. and 68 ft. W. from entrance to brick church, 3 ft. W. of fense, in concrete post; standard tablet stamped "1080 C W A 1934"

735.17

658.84

658.86

735.17

781.689

787.854

615.52

619.58

715.569

778.05

681.865

750.39

703.23

638.04

619.65

791.071

820.94

718.715

791.682

812.14

812.95

812.95

835.01

835.01

809.88

782.65

782.65

791.071

680.93
U.S.C.E. B.M. designated "166-49/1"
Copper bolt
Top of cap

T. 52 N., R. 19 W., near N. sixteenth cor. between secs. 7 and 8, 15 ft.
S. and 20 ft. E. from T-rd. N., on E. end of S. concrete head wall
of culvert; chiseled square

T. 52 N., R. 19 W., near W. sixteenth cor. sec. 7, 100 ft. N. and 15 ft.
E. from T-rd. W., in root on W. side of 12-in. pecan tree; copper nail
and washer

E. and private rd. W., in root on S. side of 24-in. white-oak tree;
copper nail and washer

T. 52 N., R. 20 W., quarter cor. between secs. 12 and 13, 18 ft. N. and
36 ft. E. from T-rd. N., in root on S. side of 15-in. elm tree; copper
nail and washer

T. 52 N., R. 20 W., near E. sixteenth cor. between secs. 11 and 12,
190 ft. N. of T-rd. E., on S. end of W. concrete head wall of culvert;
chiseled square

High Hill triangulation sta.; U.S.C. & G.S. standard disk designated
"High Hill"

7. FROM SEC. 20, T. 52 N., R. 19 W., SOUTH INTO MARSHALL QUADRANGLE
AT SEC. 32, T. 52 N., R. 19 W. (by G. R. Hamlin in 1936)

T. 52 N., R. 19 W., in SE l/4 sec. 29, on S. end of E. concrete floor
railing of steel bridge; chiseled square

T. 52 N., R. 19 W., E. sixteenth cor. between secs. 29 and 32, 105 ft.
S. and 18 ft. W. from crossroads, in root on W. side of 12-in. hedge
tree; copper nail and washer

(Continued in Marshall quadrangle; see line 2.)

8. FROM SEC. 26, T. 53 N., R. 21 W., SOUTHWEST TO MIAMI (by
G. R. Hamlin in 1936)

N., in root on E. side of 72-in. cottonwood tree; copper nail and
washer

U.S.C.E. B.M. iron pipe
Copper bolt
Top of cap

Miami, about 1.5 mi. E. of, 156 ft. N. and 12 ft. W. from T-rd. W., on
S. end of W. concrete head wall of culvert; chiseled square
U.S.C.E. B.M. designated "175"
Copper bolt
Top of cap


For an additional level line along south bank of Missouri River and
Wabash Ry., refer to United States Coast and Geodetic Survey
first-order lines; Jefferson City to Kansas City and Minneapolis,
Minn. to Glasgow, Mo.
CARROLLTON QUADRANGLE
(Latitude 39°15' - 39°30'; longitude 93°15' - 93°30')
Carroll, Chariton, Lafayette, and Saline Counties

1. FROM HIGGINSVILLE QUADRANGLE NORTH ALONG U.S. HIGHWAY 65 TO COURTHOUSE IN CARROLLTON, THENCE NORTH ALONG MAIN STREET 2 MILES, THENCE EAST TO U.S. HIGHWAY 65, THENCE NORTH ALONG U.S. HIGHWAY 65 INTO MAHLE QUADRANGLE, INCLUDING THAT PART OF THE LINE IN NORBORNE QUADRANGLE (by B. A. Barnes in 1936)

(Continued from Malta Bend quadrangle; see line 5) *

T. 51 N., R. 23 W., cor. secs. 5, 6, 7, and 8, 34 ft. S. and 32 ft. W. from junction of rd. W., in concrete post; standard tablet stamped "U78 C W A 1934"

Junction of rd. W.; surface of highway
Carrollton, 4.5 mi. S. of, on NW. wing wall of bridge over Bowdry Lake; chiseled square
Carrollton, 4.6 mi. S. of, 36 ft. W. of curve in line with highway S., 62 ft. S. and 12 ft. W. from fence corner, 3 ft. inside fence, in concrete post; standard tablet stamped "101j. C W A 1934"

Crossroad; surface of highway
Carrollton, 2.6 mi. S. of, on NW. wing wall of concrete bridge; chiseled square
Carrollton, 2 mi. S. of, cor. secs. 8, 9, 16, and 17, T. 52 N., R. 23 W., 300 ft. N. of junction of rd. E., on center of W. head wall of concrete culvert; chiseled square
Carrollton, at S. limits of, 105 ft. W. and 30 ft. E. from junction of State Highway 10, 18 ft. N. of main track of Wabash Ry., on SW. corner of steel plate on S. concrete foundation block of W. face of water tank; chiseled cross
Carrollton, on South Main Street, 105 ft. N. and 27 ft. W. from junction of N. fork of Main Street, 18 ft. N. of main track of Atchison, Topeka & Santa Fe Ry., on W. side of concrete base of stop signal; chiseled square
Carrollton, 30 ft. S. and 37 ft. W. from SW. corner of courthouse, 50 ft. N. and 42 ft. E. from intersection of Folger and Washington Avenues, in concrete post; standard tablet stamped "101j. C W A 1934"
Carrollton, 2 mi. N. of, along Main Street, cor. secs. 20, 21, 28, and 29, T. 53 N., R. 23 W., 205 ft. E. of T-rd. S., at NW. corner of bridge over small creek, on concrete wing wall; chiseled square
Carrollton, 2 mi. N. and 0.5 mi. E. from quarter cor. between secs. 21 and 28, T. 53 N., R. 23 W., 20 ft. N. and 30 ft. W. from crossroad, on center of S. head wall of concrete culvert; chiseled square
Crossroad; surface of highway
Carrollton, 4.4 mi. N. of, at N. end of bridge, on inside curb of W. railing; chiseled square
Crossroad, 20 ft. W. of, on center of S. head wall of concrete culvert; chiseled square
Carrollton, 5 mi. N. of, 51 ft. S. and 21 ft. W. from crossroad, on center of W. head wall of concrete culvert; chiseled square

Junction of rd. E.; surface of highway
Carrollton, 7.2 mi. N. of, 3 ft. S. of NW. corner of bridge B-606, on inside curb; chiseled square
Carrollton, 8.5 mi. N. of, 15 ft. N. and 21 ft. W. from crossroad, on center of W. head wall of concrete culvert; chiseled square

*In Norborne quadrangle, line 2 (see Bull. 896-H, p. 1005-1006).
Carrollton, about 10.5 mi. N. of, 15 ft. N. and 18 ft. E. from E.-W. crossroad, on center of E. head wall of concrete culvert; chiseled square 752.70

2. FROM CARROLLTON EAST ALONG U.S. HIGHWAY 24 INTO BRUNSWICK QUADRANGLE (by B. A. Barnes in 1936)

Carrollton, at junction of U.S. Highway 65 N.; surface of highway 668.5  
Carrollton, 1.5 mi. E. of, on NE. wing wall of bridge J-50; chiseled 670.83  
Carrollton, 2 mi. E. of, on SE. wing wall of bridge J-66; chiseled square 671.86  
Carrollton, 3 mi. E. of, 90 ft. S. and 121 ft. W. from SW. corner of farmhouse; "Mrs. Pratt; chiseled square 713.92  
Carrollton, about 3.5 mi. E. of, at crossroad; surface of highway 752.4776  
Carrollton, 4.1 mi. E. of, on SE. corner of, 18 ft. N. and 68 ft. W. from junction of rd. N., on center of N. head wall of concrete culvert; chiseled square 756.3  
Carrollton, 4.4 mi. E. of, 21 ft. S. and 15 ft. E. from junction of rd. S., on center of E. head wall of concrete culvert; chiseled square 820.69  
Carrollton, 6.2 mi. E. of, near cor. secs. 28, 29, 32, and 33, T. 53 N., R. 22 W., 16 ft. N. and 61 ft. E. from crossroad, 97 ft. S. of entrance to church; standard tablet stamped "1052 C W A 1934." 793.057  
Carrollton, 6.7 mi. E. of, 20 ft. N. and 20 ft. E. from junction of County Route B, on center of W. head wall of concrete culvert; chiseled square 789.72  
Carrollton, 7.4 mi. E. of, center of NW 1/4 sec. 34, T. 53 N., R. 22 W., 20 ft. N. and 130 ft. W. from crossroads, on center of N. head wall of concrete culvert; chiseled square 761.88  
Carrollton, 8.5 mi. E. of, in SE 1/4 NE 1/4 sec. 34, T. 53 N., R. 22 W., 20 ft. S. and 12 ft. W. from junction of rd. S., on center of W. head wall of concrete culvert; chiseled square 781.06  
Carrollton, 2.3 mi. W. of, 20 ft. N. and 90 ft. E. from junction of rd. N., on W. end of concrete culvert; chiseled square 761.83  
De Witt, 5.1 mi. W. of, 20 ft. N. and 90 ft. E. from junction of rd. N., on W. door of concrete culvert; chiseled square 668.31  
De Witt, 5.6 mi. W. of, 20 ft. N. and 10 ft. W. from junction of rd. N., on center of W. head wall of concrete culvert; chiseled square 704.16  
De Witt, about 3 mi. W. of, 20 ft. S. and 12 ft. E. from T-rd. E., on center of SE. concrete wing wall of small bridge; chiseled square 746.23  
De Witt, 5.3 mi. W. of, 18 ft. N. and 30 ft. W. from crossroad, on center of N. head wall of concrete culvert; chiseled square 734.17  
(Continued in Brunswick quadrangle; see line 1.)

3. FROM BRUNSWICK QUADRANGLE AT SEC. 10, T. 53 N., R. 21 W., NORTHWEST INTO HALE QUADRANGLE AT SEC. 13, T. 54 N., R. 22 W. (by B. A. Barnes in 1936)

(Continued from Brunswick quadrangle; see line 2.)

T. 53 N., R. 21 W., quarter cor. between secs. 3 and 4, 40 ft. S. and 12 ft. E. from T-rd. E., on center of SE. concrete wing wall of small bridge; chiseled square 664.23  
T. 53 N., R. 21 W., N. cor. secs. 3 and 4, 60 ft. S. and 260 ft. W. from T-rd. S., on NW. corner of concrete sidewalk leading to farmhouse of Mrs. Pratt; chiseled square 687.14  
T. 54 N., R. 21 W., quarter cor. between secs. 33 and 34, 9 ft. N. and 27 ft. W. from T-rd. W., in root on NW. side of 12-ln. elm tree; copper nail and washer 700.24  
T. 54 N., R. 21 W., center sec. 29, 18 ft. N. and 25 ft. W. from crossroad, in root on E. side of 16-ln. ash tree; copper nail and washer 713.90  
T. 54 N., R. 21 W., center sec. 20, 22 ft. S. and 15 ft. E. from T-rd. S., in root on SW. side of twin 8-ln. white-oak tree; copper nail and washer 699.60  
T. 54 N., R. 21 W., quarter cor. between secs. 19 and 20, 22 ft. N. and 26 ft. S. from T-rd. E., 4 ft. N. and 4 ft. E. from fence corner, in concrete post; standard tablet stamped "1057 C W A 1934." 714.112  
T. 54 N., R. 21 W., near cor. secs. 17, 18, 19, and 20, 22 ft. N. and 10 ft. E. from fence corner, W. side of narrow dirt road; copper nail and washer 681.16  
T. 54 N., R. 22 W., E. cor. secs. 13 and 24, 60 ft. S. and 10 ft. E. from W. side of narrow dirt road; copper nail and washer 713.46
FROM SEC. 12, T. 54 N., R. 22 W., WEST INTO NORBORNE QUADRANGLE AT SEC. 17, T. 54 N., R. 23 W., INCLUDING THAT PART OF THE LINE IN HALE QUADRANGLE (by B. A. Barnes in 1936)*


T. 54 N., R. 22 W., on line between secs. 12 and 13, on wing wall at SW. corner of concrete bridge; iron post stamped “Prim Trav Sta No 58 S 1921 Mo” 693.12

Concrete culvert, on E. head wall of; chiseled square 716.21

T. 54 N., R. 22 W., cor. secs. 9, 10, 15, and 16, 21 ft. S. and 18 ft. E. from stone at crossroads; iron post stamped “Prim Trav Sta No 57 S 1921 Mo” 767.50

Concrete culvert, on E. head wall of; chiseled square 720.75

T. 54 N., R. 22 W., cor. secs. 8, 9, 16, and 17, 25 ft. S. and 25 ft. E. from crossroads, in root on NE. side of 24-in. white-oak tree; copper nail and washer 713.99

Bridge over creek, at NW. corner of, on concrete wing wall; chiseled square 714.97

T. 54 N., R. 23 W., near center sec. 8, in concrete well platform in yard of Linden School; standard tablet stamped “T T 51 C 1934” 651.52

Reference mark 1, 42 ft. W. of SW. corner of school, at well, on NW. corner of concrete block; chiseled square 669.13

Reference mark 2, at school, on NW. corner of second row of concrete steps; chiseled square 752.70

Concrete culvert, on E. head wall of; chiseled square 755.42

T. 52 N., R. 22 W., cor. secs. 21, 22, 27, and 28, 12 ft. N. and 20 ft. E. from crossroads, in root on S. side of 24-in. locust tree; copper nail and washer 650.49

U.S.C. & G.S. standard disk designated “Utz” 650.25

T. 52 N., R. 22 W., about 0.3 mi. W. of center sec. 24, 0.5 mi. S. of floodgates, 11 ft. S. and 65 ft. W. from bridge over Van Meter drainage ditch, 11 ft. S. and 6 ft. W. from fence corner, in concrete post; standard tablet stamped “493 C W A 1933” 651.52

T. 52 N., R. 23 W., near W. sixteenth cor. between secs. 13 and 22, 30 ft. N. and 100 ft. W. from rd. corner S.-E., on E. end of floodgate across Van Meter drainage ditch; chiseled square 653.12

Carrollton, 40 ft. W. of Chicago, Burlington & Quincy R.R. at West Lincoln Street crossing, on SW. wing wall of concrete bridge; chiseled square 669.31


(Continued from Malta Bend quadrangle; see line 3.)

T. 52 N., R. 22 W., quarter cor. between secs. 27 and 28, 1/3 ft. S. and 23 ft. W. from T-rd. W., 22 ft. N. and 51/2 ft. E. from NE. cor. of Little School, 3 ft. S. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped “498 C W A 1934” 650.49

T. 52 N., R. 22 W., cor. secs. 21, 22, 27, and 28, 12 ft. N. and 20 ft. W. from crossroads, in root on S. side of 24-in. locust tree; copper nail and washer 650.49

U.S.C. & G.S. B.M. designated “179” 650.25

T. 52 N., R. 22 W., quarter cor. between secs. 27 and 28, 1/3 ft. S. and 23 ft. W. from T-rd. W., 22 ft. N. and 51/2 ft. E. from NE. cor. of Little School, 3 ft. S. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped “498 C W A 1934” 650.49

T. 52 N., R. 23 W., cor. secs. 13, 14, 15, 16, 17, 18, and 19, 30 ft. N. and 80 ft. E. from T-rd. E., on top of concrete well curb at Van Meter School; chiseled square 650.67

T. 52 N., R. 23 W., near W. sixteenth cor. between secs. 13 and 22, 30 ft. N. and 100 ft. W. from rd. corner S.-E., on E. end of floodgate across Van Meter drainage ditch; chiseled square 653.12

Published also as line 10 of Hale quadrangle (see Bull. 896-D, p. 468).
SPIRIT LEVELING IN MISSOURI

Reference mark 1; U.S.C. & G.S. standard reference disk
Reference mark 2; U.S.C. & G.S. standard reference disk

For an additional level line along south bank of Missouri River, refer to United States Coast and Geodetic Survey first-order line, Jefferson City to Kansas City.

MALTA BEND QUADRANGLE

(Latitude 39°00'-39°15'; longitude 93°15'-93°30')

Carroll, Lafayette, and Saline Counties

1. FROM MARSHALL QUADRANGLE AT SEC. 29, T. 10 S., R. 21 W., WEST BY WAY OF HERNDON INTO KNOBINGER QUADRANGLE AT SEC. 36, T. 10 S., R. 21 W., INCLUDING THAT PART OF THE LINE IN HIGGINSVILLE QUADRANGLE (by C. P. Thompson in 1934). (Continued from Marshall quadrangle; see line 1.)

T. 10 S., R. 21 W., N. sixteenth cor. sec. 30, 39 ft. S. and 18 ft. W. from T-rd. S., in fence line, in root on N. side of 22-in. wild-cherry tree; copper nail and washer

Herndon, at SE. corner of store of Herbert Aulgur, on SW. corner of top concrete step; chiseled square

Herndon, 0.8 mi. W. of 30 ft. S. and 90 ft. W. from T-rd. S., at NE. corner of yard of Herndon School, in root on N. side of 24-in. oak tree; copper nail and washer


Reference mark, 190 ft. S. and 18 ft. W. from tablet, in root on E. side of 8-in. cedar tree; copper nail and washer

Herndon, 2 mi. W. of 1/2 ft. S. and 17 ft. E. from crossroads, in root on NE. side of 20-in. oak tree; copper nail and washer

Herndon, 2.7 mi. W. of 33 ft. N. and 126 ft. E. from T-rd. E., on SW. corner of bottom concrete step to Antioch Church; chiseled square

T. 14 S., R. 22 W., 18 ft. E. of W. sixteenth cor. between secs. 15 and 22, 18 ft. E. of rd. corner S.-W., in fence corner, in root on W. side of 30-in. oak tree; copper nail and washer


Reference mark, 162 ft. S. and 6 ft. W. from tablet, in fence line, in root on W. side of 12-in. elm tree; copper nail and washer

T. 14 S., R. 22 W., quarter cor. between secs. 17 and 20, 18 ft. N. and 50 ft. W. from N. of rd., in root on N. side of twin 20-in. elm trees; copper nail and washer

T. 14 S., R. 22 W., cor. secs. 17, 18, 19, and 20, 30 ft. N. and 18 ft. E. from crossroads, in root on S. side of 12-in. hackberry tree;


Reference mark, 9 ft. E. of tablet, in root on W. side of 18-in. elm tree; copper nail and washer

*Line 1 of Higginsville quadrangle includes a portion of this line (see Bull. 898-H, p. 1009).
Foot


Sweet Springs, 3 mi. N. of, cor. secs. 22, 23, 26, and 27, T. 49 N., R. 23 W., 10 ft. N. and 180 ft. E. from rd. corner N.-E. (now State Highway 127), on W. end of S. head wall of concrete culvert; chiseled square

T. 49 N., R. 23 W., quarter cor. between secs. 17 and 20, 7 ft. S. and 15 ft. W. from tablet, in root on N. side of 8-in. wild-cherry tree; copper nail and washer.


T. 49 N., R. 23 W., quarter cor. between secs. 17 and 20, 7 ft. S. and 36 ft. E. from T-rd. W., 7 ft. S. and 15 ft. E. from fence corner, in concrete post; standard tablet stamped "1012 C W A 1936"

Reference mark, 4 ft. N. and 15 ft. W. from tablet, in root on N. side of 18-in. elm tree; copper nail and washer.

T. 49 N., R. 23 W., near S. sixteenth cor. on W. line sec. 16, 105 ft. N. and 70 ft. W. from NW. corner of farmhouse of August Krichoffs, 18 ft. S. and 275 ft. E. from rd. corner E.-S., in root on NW. side of 10-in. black locust tree; copper nail and washer.


T. 51 N., R. 21 W., near E. sixteenth cor. sec. 26, 56 ft. S. and 19 ft. E. from cross-roads, in concrete post; standard tablet stamped "185=58/1" Reference mark, 43 ft. N. of tablet, in root on W. side of 18-in. hackberry tree; copper nail and washer.

T. 51 N., R. 21 W., near center sec. 25, at NW. corner of bridge over Davis Creek, in SW. corner of N. cross beam, on rivet; chiseled cross

(Continued in Sweet Springs quadrangle; see line 1.)

2. FROM WAVERLY SOUTH BY WAY OF BLACKBURN TO SEC. 21, T. 49 N., R. 21 W., INCLUDING THAT PART OF THE LINE IN HIGGINSVILLE QUADRANGLE (by G. R. Hamlin in 1936)"

U.S.G.S. B.M. designated "185=58/1"

Copper bolt
Top of cap
Waverly, on bridge over Missouri River, in top of upstream end of second pier from S. end of bridge; standard tablet (set by water-resources branch of U.S. Geol. Survey)
Waverly, in SE. part of, 20 ft. S. and 50 ft. E. from junction of S. cut-off to U.S. Highway 65 and State Highway 24, on S. concrete head wall of culvert; chiseled square
Waverly, 0.5 mi. SE. of, 30 ft. S. and 100 ft. E. from crossroads, on SW. corner of S. concrete head wall of culvert; chiseled square
T. 51 N., R. 21 W., E. sixteenth cor. between secs. 23 and 26, 25 ft. S. and 60 ft. W. from crossroads, in root on S. side of 14-in. hedge tree; copper nail and washer.


Tps. 50 and 51 N., R. 21 W., E. sixteenth cor. between secs. 2 and 35, 45 ft. N. and 55 ft. W. from crossroads, in root on S. side of 24-in. maple tree; copper nail and washer.
Tps. 50 and 51 N., Rs. 23 and 21 W., cor. of, 15 ft. N. and 80 ft. E. from T-rd. S. on Lafayette-Saline county line, in root on W. side of 10-in. wild cherry tree; copper nail and washer.


Culvert, on N. end of S. concrete head wall; chiseled square
T. 49 N., 15 ft. N. and 12 ft. W. from, on N. end of iron pipe culvert; painted square

*Line 7 of Higginsville quadrangle (see Bull. 898-H, pp. 1012-1013).
961* SPIRIT LEVELING IN MISSOURI


State Highway 20 at rd. S., 30 ft. S. of, on W. end of iron pipe culvert; painted square

T. 50 N., R. 23 W., quarter cor. between sees. 25 and 36, 65 ft. S. and 22 ft. E. from T-rd. W., on NW. corner of concrete base of fence post; chiseled square

T. 49 N., R. 28 W., N. sixteenth cor. sec. 1, 28 ft. S. and 5 ft. W. from T-rd. W., on NW. corner of concrete base of fence post; chiseled square

3. FROM HIGGINSVILLE QUADRANGLE EAST ALONG U.S. HIGHWAY 65 AND STATE HIGHWAY 210 TO MALTA BEND, THENCE NORTH ALONG ROADS INTO CARROLLTON QUADRANGLE AT SEC. 33, T. 52 N., R. 22 W. (by G. R. Hamlin In 1936)

Waverly, 2 mi. E. of, 25 ft. N. and 15 ft. E. from junction of rd. N., on E. end of concrete pipe culvert; chiseled square

Waverly, 2 mi. E. of, 20 ft. N. and 12 ft. W. from crossroad, on NW. corner of W. concrete head wall of culvert; chiseled square

Grand Pass, 1 ml. W. of, 30 ft. S. and 12 ft. E. from Junction of rd. S., on E. end of concrete pipe culvert; chiseled square

Grand Pass, 30 ft. S. and 12 ft. E. from Junction of rd. S. to farmhouse of J. C. Croswhite, on top of high bank, between telegraph pole and fence, in concrete post; standard tablet stamped "1001 C W A 1934"

Malta Bend, 1.5 mi. W. of, 25 ft. N. and 20 ft. E. from crossroad, on SW. corner of N. concrete head wall of culvert; chiseled square

Malta Bend, 1.5 mi. W. of, 25 ft. N. and 20 ft. E. from crossroad, on NW. corner of bottom doorstep to I.O.O.F. Building; chiseled square

Malta Bend, Missouri Pacific R.R. at rd. crossing; top of S. rail


Malta Bend, 1.5 mi. N. and 0.5 mi. E. from, cor. sees. 7, 8, 17, and 18, T. 51 N., R. 22 W., 18 ft. E. and 30 ft. S. from rd. corner S.-E., in root on S. side of 8-in. maple tree; copper nail and washer

Malta Bend, 1.5 mi. N. and 1 mi. E. from, quarter cor. between sees. 8 and 17, T. 51 N., R. 22 W., at private rd. N., on E. end of iron pipe culvert; chiseled square

Malta Bend, 1.5 mi. N. and 1.5 mi. E. from, cor. sees. 8, 9, 16, and 17, T. 51 N., R. 22 W., at T-rd. N., on W. concrete head wall of culvert; chiseled square

Malta Bend, 1 mi. NE. of, cor. sees. 4, 5, 8, and 9, T. 51 N., R. 22 W., 15 ft. W. of private rd. W., on N. end of iron pipe culvert; chiseled square

Malta triangulation sta.; Missouri River Commission iron post designated "Malta"

Copper bolt 729.23

Top of cap (Continued in Carrollton quadrangle; see line 6.)
PART 7, CENTRAL MISSOURI, 1896-1938

4. FROM MARSHALL QUADRANGLE WEST ALONG STATE HIGHWAY 20 TO BLACKBURN
(by G. R. Hamlin in 1936)
(Continued from Marshall quadrangle; see line 4.)

Marshall, 3.5 mi. W. of, 152 ft. N. and 37 ft. E. from NE. corner of
farmhouse of Ed Pinnegan, 20 ft. S. of highway, in concrete post;
standard tablet stamped "1070 C W A 19314."

Junction of rd. W., 15 ft. N. and 35 ft. W. from, 15 ft. N. and 70 ft. E.
from Alton R.R. at rd. crossing, on W. end of stone head wall of cul­
vert; chiseled square

T. 50 N., R. 22 W., near quarter cor. between secs. 15 and 24, 165 ft. S.
and 20 ft. W. from crossroad, in root on E. side of 30-in. cottonwood
tree; copper nail and washer

Shackleford, 300 ft. SW. of post office, 70 ft. N. of highway, at service
sta., on S. end of concrete base of gasolene pumps; chiseled square
U.S.C. & S.S. standard reference disk stamped "Shackle No 1"

T. 50 N., R. 22 W., cor. secs. 21, 22, 27, and 28, 28 ft. N. and 50 ft.
W. from crossroad, 3 ft. S. and 20 ft. W. from fence cor., in con­
crete post; standard tablet stamped "1071 C W A 19314."

Culvert, on W. end of S. concrete head wall; chiseled square

T. 50 N., R. 22 W., cor. secs. 20, 21, 26, and 29, 25 ft. N. of junction
of rd. S., in root on S. side of 4-in. hedge tree; copper nail and
washer

T. 50 N., R. 22 W., quarter cor. between secs. 20 and 29, 20 ft. N. and
15 ft. E. from junction of rd. N., on E. end of iron pipe culvert;
chiseled square

W. from junction of rd. S., on W. end of S. concrete head wall of
culvert; chiseled square

Junction of private rd. N., 18 ft. N. and 12 ft. W. from, on W. end of
iron pipe culvert; chiseled square

Blackburn, 5.5 mi. E. of, 29 ft. S. and 58 ft. E. from crossroad, 2 ft.
N. and 57 ft. E. from fence corner, in concrete post; standard tablet
stamped "1072 C W A 19314.

Blackburn, 5 mi. E. of, 15 ft. S. and 220 ft. W. from junction of State
Highway 127 N., on E. end of S. concrete head wall of culvert; chiseled square

Blackburn, 4 mi. E. of, 15 ft. N. and 35 ft. W. from junction of State
Highway 127 S., on N. end of iron pipe culvert; chiseled square

Blackburn, 3.5 mi. E. of, 35 ft. S. and 5 ft. W. from junction of rd. N.,
on top of concrete right-of-way post; (mark not described)

Blackburn, 2.5 mi. E. of, 167 ft. S. and 31 ft. E. from SE. corner of
farmhouse of August Pape, 136 ft. N. and 154 ft. E. from highway at
fences N.-S., in concrete post; standard tablet stamped "1075 C W A
19314."

Blackburn, 2 mi. E. of, 15 ft. S. and 15 ft. E. from crossroad, on E. end
of iron pipe culvert; chiseled square

Blackburn, 1.5 mi. E. of, 15 ft. S. and 35 ft. E. from junction of rd.
S., on W. end of iron pipe culvert; chiseled square

Blackburn, 0.5 mi. E. of, 20 ft. S. and 20 ft. W. from junction of rd.
S., on W. head wall of culvert; chiseled square

5. FROM WAVERLY NORTH ALONG U.S. HIGHWAYS 24 AND 65 INTO NORBORNE
QUADRANGLE
(by B. A. Barnes in 1936)

U.S.C.S. B.M. designated "189=59/1"
Copper bolt
Top of cap
Carrollton, 8.3 mi. N. of, in SE 1/4 sec. 18, T. 51 N., R. 25 W., 21 ft.
S. and 70 ft. W. from junction of rd. SW., in root on NE. side of
40-ft. elm tree; spike

Carrollton, 7 mi. S. of, on line between secs. 7 and 8, T. 51 N.,
R. 25 W., N. of small bridge, 135 ft. S. of junction of rd. SW., on W.
head wall of concrete culvert; chiseled square

(Continued in Carrollton quadrangle; see line 1.)

For an additional level line along south bank of Missouri River,
refer to United States Coast and Geodetic Survey first-order
line, Jefferson City to Kansas City.

*Line 9 of Higginaville quadrangle (see Bull. 898-E, p. 1015).
SWEET SPRINGS QUADRANGLE

1. FROM HIGGINSVILLE QUADRANGLE AT SEC. 36, T. 49 N., R. 23 W., CENTER SEC. 36, 15 FT. N. AND 18 FT. E. FROM JUNCTION OF PRIVATE RD. E., IN ROOT ON S. SIDE OF TWIN 20-IN. HEDGE TREE; COPPER NAIL AND WASHER 720.91

T. 48 N., R. 23 W., N. QUARTER COR. SEC. 1, 10 FT. S. AND 340 FT. E. FROM T-RD. E., ON S. SIDE OF S. HEAD WALL OF CONCRETE CULVERT; CHISELED SQUARE 711.71

Emma, 1 MI. OF. COR. TPS. L/8 AND L/9 N., RS. 23 AND 23 W., 40 FT. N. OF RD. JUNCTION; IRON POST STAMPED "PRIM TRAV STA NO 17 1914 Mo" 730.276

Emma, 1 MI. OF. IN SW 1/4 SEC. 7, T. 48 N., R. 23 W., 10 FT. S. OF RD., ON W. END OF E. HEAD WALL OF CONCRETE CULVERT; CHISELED SQUARE 692.50

Emma, 2 MI. OF. 105 FT. S. AND 15 FT. W. FROM R. COR. SECS. 11 AND 24, T. 48 N., R. 23 W., 72 FT. N. AND 15 FT. W. FROM JUNCTION OF PRIVATE RD. TO FARMHOUSE OF CHARLIE HORN, IN ROOT ON S. SIDE OF 2-IN. BLACK-LOCUST TREE; COPPER NAIL AND WASHER 686.69

Emma, 3 MI. OF. W. COR. SECS. 39 AND 30, T. 48 N., R. 23 W., 100 FT. N. AND 12 FT. E. FROM CROSSROADS, ON S. END OF E. HEAD WALL OF CONCRETE CULVERT; CHISELED SQUARE 651.50

Emma, 3 MI. OF. AND 0.5 MI. W. FROM, 60 FT. SW. OF RD. FORKS, AT T-RD. S., IN CENTER OF INCLOSURE; IRON POST STAMPED "No 658" 657.082

Emma, 3.5 MI. S. AND 0.5 MI. W. FROM, NEAR CENTER SEC. 25, T. 48 N., R. 24 W., 1/40 FT. S. AND 10 FT. W. FROM T-RD. W., ON S. END OF S. CONCRETE ABUTMENT OF BRIDGE; CHISELED SQUARE 657.39

Dunksburg, 0.5 MI. N. AND 0.5 MI. W. FROM, IN N 1/2 SEC. 36, T. 48 N., R. 23 W., ON SE. BOLT IN NE. CYLINDER PIER OF BRIDGE OVER BLACKWATER RIVER; CHISELED CROSS 661.96

Dunksburg, AT S. EDGE OF, NEAR SW. COR. SEC. 31, T. 48 N., R. 23 W., 24 FT. N. AND 15 FT. W. FROM CROSSROADS, ON CENTER OF W. HEAD WALL OF CONCRETE CULVERT; CHISELED SQUARE 746.25

Dunksburg, 3 MI. OF, 30 FT. N. OF E. SIXTEENTH COR. BETWEEN SECS. 1 AND 12, T. 47 N., R. 24 W., 10 FT. W. OF N.-S. RD., ON CENTER OF W. HEAD WALL OF CONCRETE CULVERT; CHISELED SQUARE 741.54

Dunksburg, 2 MI. OF, IN SE 1/4 SEC. 12, T. 47 N., R. 24 W., 250 FT. S. 55' E. OF DWELLING OF R. S. TYLER, 20 FT. W. OF T-RD. S., 4 FT. S. OF FENCE; IRON POST STAMPED "PRIM TRAV STA NO 16 1914 Mo" 768.534

Reference mark, 15 FT. N. AND 12 FT. E. FROM TABLET, IN ROOT ON S. SIDE OF 30-IN. OAK TREE; COPPER NAIL AND WASHER 767.70

Dunksburg, 2.2 MI. OF. W. COR. SECS. 7 AND 16, T. 47 N., R. 23 W., 42 FT. S. AND 15 FT. E. FROM CROSSROADS, IN ROOT ON NW. SIDE OF 30-IN. OAK TREE; COPPER NAIL AND WASHER 762.68

Dunksburg, 3 MI. OF. 60 FT. N. AND 10 FT. S. FROM W. COR. SECS. 18 AND 19, T. 47 N., R. 23 W., 12 FT. N. AND 10 FT. E. FROM T-RD. W., ON S. END OF HEAD WALL OF CONCRETE CULVERT; CHISELED SQUARE 790.48

Dunksburg, 3.6 MI. OF. NEAR S. SIXTEENTH COR. BETWEEN SECS. 19 AND 24, T. 47 N., RS. 23 AND 23 W., 18 FT. N. AND 78 FT. W. FROM CROSSROADS, IN ROOT ON S. SIDE OF 20-IN. OAK TREE; COPPER NAIL AND WASHER 890.15

T. 47 N., W. 23 W., E. COR. SECS. 25 AND 36, 369 FT. S. AND 10 FT. W. FROM T-RD. W., ON N. END OF HEAD WALL OF CONCRETE CULVERT; CHISELED SQUARE 791.50

T. 47 N., R. 24 W., E. COR. SECS. 25 AND 36, 369 FT. S. AND 10 FT. W. FROM T-RD. W., ON S. END OF CONCRETE CULVERT; CHISELED SQUARE 791.58
Tps. 14.6 and 17 N., Rs. 23 and 24 W., cor. of, 10 ft. W. of crossroads, on W. head wall of concrete culvert; chiseled square
T. 14.6 N., R. 23 W., 390 ft. N. and 12 ft. W. from N. sixteenth cor. on E. ledge, 12 ft. from W. head wall of concrete culvert; chiseled square
Knobnoster, 1.2 mi. N. and 3 mi. E. from, cor. secs. 7, 12, 13, and 18, T. 14.6 N., Rs. 23 and 24 W., 270 ft. S. and 62 ft. E. from crossroads, 15 ft. W. from W. corner of farmhouse of Harry Reaton, in root on W. side of 50-in. elm tree; copper nail and washer

Knobnoster, 3 mi. E. and 0.8 mi. S. from, about 0.3 mi. E. of Johnson-Pettis county line, near stock scales, N. of rd., 3 ft. S. of fence, in concrete post; standard tablet stamped "T T 36 0 1936" 863.219
Telephone pole, S. of rd.; nail 851.457

(Continued in Green Ridge quadrangle; see line 1.)

3. FROM KNOBNOSTER QUADRANGLE EAST AND SOUTHEAST ALONG MISSOURI PACIFIC RAILROAD INTO GREEN RIDGE QUADRANGLE (by S. B. Scott in 1934)

(Continued in Green Ridge quadrangle; see line 4.)

4. FROM NELSON QUADRANGLE AT SEC. 17, T. 14.6 N., R. 21 W., NORTH AND WEST TO HUGHESVILLE, THEN WEST TO SEC. 20, T. 14.7 N., R. 22 W., THEN NORTH TO HOUSTONIA, THEN EAST AND NORTHEAST TO SEC. 20, T. 14.7 N., R. 21 W. (by T. G. Drummond in 1936 and F. C. Lontz in 1956)
(Taken from Nelson quadrangle; see line 7.)
T. 14.6 N., R. 23 W., near cor. secs. 17, 18, 19, and 20, 500 ft. W. of Missouri Pacific R.R. at rd. crossing, on S. head wall of concrete culvert; chiseled square
T. 14.6 N., R. 23 W., 7 mi. S. of City, 14 ft. E. from N. end of retaining wall of bridge over Muddy Creek; chiseled square
T. 14.6 N., R. 23 W., near S. quarter cor. sec. 7, 0.2 mi. N. of Georgetown, on rd. to Hughesville, in farmyard of Dr. Bishop, 50 ft. NE. of well, in concrete post; U.S.C. & G.S. and State Survey standard tablet 800.981
T. 14.6 N., R. 21 W., in NW 1/4 sec. 7, 0.2 mi. N. of rd. to Hughesville, on W. head wall of concrete culvert; chiseled square
T. 14.6 N., R. 21 W., in W 1/2 sec. 6, 0.1 mi. E. of Missouri Pacific R.R. sta. at Craft, near T-rd. S., on N. end of bottom step at front of church; chiseled square
T. 14.6 N., R. 21 W., in NE 1/4 sec. 6, on S. end of W. head wall of concrete culvert over Smelcer Creek; chiseled square
T. 14.7 N., R. 21 W., in NE 1/4 sec. 6, on S. end of W. head wall of concrete culvert; chiseled square
T. 14.7 N., R. 21 W., in NE 1/4 sec. 6, on S. end of W. head wall of concrete culvert over Smelcer Creek; chiseled square
T. 14.7 N., R. 21 W., near quarter cor. between secs. 31 and 32, 10 ft. E. of rd., on N. end of E. head wall of concrete culvert on Lover's Leap Road; chiseled square
T. 14.7 N., R. 21 W., near N. sixteenth cor. sec. 30, 0.4 mi. E. of T-rd. E., on W. end of SW. wing wall of concrete bridge; chiseled square
T. 14.7 N., R. 21 W., near E. sixteenth cor. between secs. 25 and 30, 100 ft. N. of T-rd. E., on W. wing wall of concrete culvert; chiseled square
Hughesville, 0.6 mi. W. of, 310 ft. W. of S. sixteenth cor. sec. 28, T. 14.7 N., R. 22 W., on S. end of W. head of concrete culvert; chiseled square
T. 14.7 N., R. 22 W., on line between secs. 25 and 26, 500 ft. W. of Missouri Pacific R.R., on W. end of N. head wall of concrete culvert; chiseled square

(Taken from Nelson quadrangle; see line 7.)
SPIRIT LEVELING IN MISSOURI

T. 47 N., R. 22 W., cor. secs. 22, 23, 26, and 27, 150 ft. W. of T-rd. N. (S. 7°), on S. end of E. wing wall of bridge; chiseled square

798.20

T. 47 N., R. 22 W., cor. secs. 21, 22, 27, and 22, NW. of crossroads, on double-wing head wall of concrete culvert; chiseled square

895.66

T. 47 N., R. 22 W., cor. secs. 16, 17, 20, and 21, E. of rd., in concrete fence post; top of pipe

835.68


788.74


829.51


782.68

T. 48 N., R. 22 W., near S. cor. secs. 33 and 34, 0.2 mi. W. of T-rd. S., on W. end of S. head wall of concrete culvert; chiseled square

807.27

T. 47 N., R. 22 W., near N. sixteen cor. on N. line sec. 2, on SW. wing wall of concrete culvert; chiseled square

776.23


793.57

T. 48 N., R. 22 W., N. of intersection of Line and Walnut Streets, on E. head wall of concrete culvert; chiseled square

805.99


754.78

T. 47 N., R. 23 W., 0.2 mi. E. of center sec. 2, 300 ft. W. of rd. corner, on E. end of S. head wall of concrete culvert; chiseled square

749.50

T. 47 N., R. 23 W., in E 1/2 sec. 3, on SE. wing wall of bridge over South Fork; chiseled square

678.79

T. 47 N., R. 23 W., quarter cor. between secs. 3 and 4, 25 ft. N. and 87 ft. W. from T-rd. N., in concrete post; standard tablet

716.62

T. 47 N., R. 23 W., in SE 1/4 sec. 5, 0.2 mi. W. of T-rd. S., on S. head wall of concrete culvert; chiseled square

747.60

T. 47 N., R. 23 W., quarter cor. between secs. 5 and 6, SW. of crossroads, on head wall of concrete culvert; chiseled square

751.22

T. 47 N., R. 23 W., in SW 1/4 sec. 6, on SW. wing wall of iron bridge; chiseled square

736.24

5. FROM HOUSTONIA WEST TO SEC. 12, T. 47 N., R. 22 W. (by T. G. Drummond in 1934 and F. C. Lentz in 1936)

T. 48 N., R. 22 W., near N. sixteen cor. between secs. 5 and 6, T. 47 N., R. 22 W., NW. of T-rd. W., in root of 30-in. walnut tree; copper nail and washer

800.55


754.78

T. 47 N., R. 22 W., near S. cor. secs. 32 and 33, 0.5 mi. E. of Houstonia, 550 ft. E. of Missouri Pacific R.R., on E. end of S. head wall of concrete culvert; chiseled square

759.74

Houstonia, in SE 1/4 sec. 32, T. 48 N., R. 22 W., N. of intersection of Line and Walnut Streets, on E. head wall of concrete culvert; chiseled square

755.56

Houstonia, 0.5 mi. S. and 0.5 mi. W. from N. sixteen cor. between secs. 5 and 6, T. 47 N., R. 22 W., NW. of T-rd. W., in root of 30-in. walnut tree; copper nail and washer

800.55

T. 47 N., R. 22 W., near S. sixteen cor. between secs. 1 and 6, on B.-W. rd., on wing wall of concrete culvert; chiseled square

745.10


754.78

T. 47 N., R. 22 W., 0.2 mi. E. of center sec. 2, 370 ft. W. of rd. corner, on E. end of S. head wall of concrete culvert; chiseled square

749.50

T. 47 N., R. 22 W., in E 1/2 sec. 3, on SE. wing wall of bridge over South Fork; chiseled square

678.79

T. 47 N., R. 22 W., quarter cor. between secs. 3 and 4, 25 ft. N. and 87 ft. W. from T-rd. N., in concrete post; standard tablet

716.62

T. 47 N., R. 22 W., in SE 1/4 sec. 5, 0.2 mi. W. of T-rd. S., on S. head wall of concrete culvert; chiseled square

747.60

T. 47 N., R. 22 W., quarter cor. between secs. 5 and 6, SW. of crossroads, on head wall of concrete culvert; chiseled square

751.22

T. 47 N., R. 22 W., in SW 1/4 sec. 6, on SW. wing wall of iron bridge; chiseled square

736.24

6. FROM NELSON QUADRANGLE AT SEC. 20, T. 47 N., R. 21 W., WEST TO SEC. 19, T. 47 N., R. 21 W. (by F. C. Lentz in 1936)

(Continued from Nelson quadrangle; see line 5.)

T. 47 N., R. 21 W., quarter cor. between secs. 19 and 20, 350 ft. N. and 15 ft. W. from rd. corner N.-W., on head wall of concrete culvert; chiseled square

787.79

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE AT EMMA (by C. W. Williams in 1936)

Emma, on NE. corner of bottom step to St. John The Evangelist Church; chiseled square

755.26

U.S.C. & O.S. standard disk stamped "R 96 1935"

758.607

For additional level lines along Missouri Pacific R.R., and U.S. Highway 40, refer to United States Coast and Geodetic Survey first-order line, Jefferson City to Pleasant Hill; and second-order line, Lexington to Boonville.

(Continued from Sweet Springs quadrangle; see line 2.)

Knobnoster, 5 mi. E. and 1.2 mi. S. from, N. sixteenth cor. between secs. 28 and 29, T. 14 N., R. 23 W., 50 ft. N. of N. line of dwelling of T. H. Bradshaw, W. of rd., 14 ft. S. and 2 ft. E. from end of hedge fence, in concrete post; standard tablet

Knobnoster, 5 mi. E. and about 2.5 mi. S. from, 300 ft. S. of quarter cor. between secs. 32 and 33, T. 14 N., R. 23 W., at bridge over Long Branch Creek, on NE. corner of W. concrete abutment; (mark not described)

Knobnoster, 5 mi. E. and 3 mi. S. from, near cor. secs. 4, 5, 32, and 33, Tpa. 15 and 16 N., R. 23 W., in concrete post; standard tablet

Knobnoster, 5 mi. E. and 3.3 mi. S. from, about 0.3 mi. S. of cor. secs. 4, 5, 32, and 33, Tpa. 15 and 16 N., R. 23 W., 20 ft. W. of rd., in concrete post; standard tablet

T. 14 N., R. 23 W., quarter cor. between secs. 4 and 5, on SW. corner of W. concrete head wall of culvert; (mark not described)

T. 14 N., R. 23 W., 150 ft. E. of center of SW 1/4 sec. 5, on SE. corner of N. concrete head wall of culvert; (mark not described)

T. 14 N., R. 23 W., near quarter cor. between secs. 6 and 7, N. of rd., on concrete head wall of culvert; chiseled square

T. 14 N., R. 23 W., quarter cor. between secs. 7 and 18, 37 ft. S. and 25 ft. E. from rd. junction, in concrete post; standard tablet

Reference mark, 136 ft. N. of tablet, W. of rd., in root of 20-in. stump; lead-headed nail

T. 14 N., R. 23 W., 1,020 ft. N. of quarter cor. between secs. 18 and 19, on S. end of W. head wall of concrete culvert; chiseled square

T. 14 N., R. 23 W., 675 ft. N. of center sec. 19, W. of rd., in root of 36-in. maple tree; copper nail and washer


Reference mark, 175 ft. N. and 16 ft. E. from tablet, on NE. corner of concrete head wall of culvert; chiseled square


T. 14 N., R. 23 W., 291 ft. S. of corner sttone

T. 14 N., R. 23 W., about 0.2 mi. W. of S. cor. secs. 31 and 32, 25 ft. W. and 40 ft. W. from T-ld. N., in concrete post; standard tablet stamped "T T 1560 6 W A 1934"

Reference mark, 16 ft. N. and 16 ft. E. from tablet, in root of 16-in. maple tree; copper nail and washer

T. 14 N., R. 23 W., E. sixteenth cor. sec. 29, 5 and 6, 310 ft. N. and 9 ft. W. from T-ld. E., on N. end of W. head wall of concrete culvert; chiseled square

T. 14 N., R. 23 W., NE 1/4 sec. 7, in yard of Hope Dale School, 10 ft. E. of well, in concrete post; standard tablet stamped "T T 1559 C W A 1934" 910.593

Reference mark, 3 ft. N. and 6 ft. W. from tablet, on NE. corer of concrete well platform; chiseled square

T. 14 N., R. 23 W., 0.2 mi. N. of approximate quarter cor. between secs. 17 and 18, on S. end of E. head wall of concrete culvert; chiseled square

*Line 1 of Windsor quadrangle (see Bull. 898-N, pp. 1016-1017).
SPIRIT LEVELING IN MISSOURI


T. 14 N., R. 23 W., cor. secs. 20, 30, 31, and 32, 9 ft. N. and 11 ft. W. from crossroads, on E. end of N. head wall of concrete culvert; chiseled square

T. 14 N., R. 23 W., near line between secs. 30 and 31, about 0.2 mi. E. of Johnson-Pettis county line, E. of Missouri-Kansas-Texas R.R., 40 ft. S. of rd., in concrete post; standard tablet stamped "T T 1556 C W A 19314." Reference marker, 11 ft. S. of tablet, on NW. corner of SW. concrete pedestal of city-water tower; (mark not described)

T. 14 N., R. 23 W., near N. sixteenth cor. sec. 7, in front of dwelling of Alton Hurst, in root of 30-in. hickory tree; copper nail and washer

T. 14 N., R. 23 W., in E 1/2 sec. 28, on S. end of W. concrete abutment of bridge over Elk Fork Creek; chiseled square

T. 14 N., R. 23 W., in E 1/2 sec. 27, on W. end of S. concrete head wall of culvert; chiseled square

Kendrick triangulation sta.; U.S.C. & G.S. standard disk


T. 15 N., R. 22 W., cor. secs. 5 and 6, SW. of T-rd. S., on S. end of S. head wall of concrete culvert; chiseled square


Reference marker, 10 ft. N. and 614 ft. E. from tablet, in root of 14-in. oak tree; copper nail and washer

Tps. 15 N., R. 22 W., on line between secs. 3 and 4, on W. bank of Basin Fork Creek, 12 ft. S. of rd., 12 ft. W. from rd. intersection, W. of rd.; standard tablet stamped "T T 258 C W A 19314." Reference marker, 10 ft. N. and 614 ft. E. from tablet, in root of 14-in. oak tree; copper nail and washer

T. 15 N., R. 22 W., cor. secs. 5 and 6, SW. of T-rd. S., on S. end of S. head wall of concrete culvert; chiseled square


Reference marker, 10 ft. N. and 614 ft. E. from tablet, in root of 14-in. oak tree; copper nail and washer

Tps. 15 N., R. 22 W., on line between secs. 3 and 4, on W. bank of Basin Fork Creek, 12 ft. S. of rd., 12 ft. W. from rd. intersection, W. of rd.; standard tablet stamped "T T 258 C W A 19314." Reference marker, 10 ft. N. and 614 ft. E. from tablet, in root of 14-in. oak tree; copper nail and washer

T. 14 N., R. 21 W., 540 ft. E. of N. sixteenth cor. on S. line sec. 31, on E. end of N. concrete head wall of culvert; chiseled square

(Continued in Lincoln quadrangle; see line 4.)

Pest

T. 14 N., R. 23 W., in E 1/2 sec. 28, on S. end of W. concrete abutment of bridge over Elk Fork Creek; chiseled square

T. 14 N., R. 23 W., in E 1/2 sec. 27, on W. end of S. concrete head wall of culvert; chiseled square

Windsor, at NE. limits of, 63 ft. S. and 25 ft. E. from State Highway 52 at Henry-Pettis county line, on S. line of right-of-way, in concrete post; standard tablet stamped "T T 1556 C W A 19314.

Windsor, 38 ft. S. and 28 ft. E. from intersection of Florence and Main Streets in concrete post; standard tablet stamped "T T 1556 C W A 19314.

Reference marker, 27 ft. S. of tablet, in NW. corner of NE. concrete pedestal of city-water tower; (mark not described)

(Continued in Smithton quadrangle; see line 3.)

Foot
892.956

4. FROM SWEET SPRINGS QUADRANGLE SOUTHEAST ALONG MISSOURI PACIFIC RAILROAD INTO SMITHTON QUADRANGLE (by G. B. Scott in 1934).

(Continued from Sweet Springs quadrangle; see line 3.)


(Continued in Smithton quadrangle; see line 4.)

Foot
788.712


T. 15 N., R. 23 W., near center sec. 31, 210 ft. E. of T-rd. S., on N. concrete head wall of culvert; chiseled square

816.31

T. 15 N., R. 23 W., SE 1/4 sec. 20, on top of concrete abutment at NW. corner of bridge over Flat Creek; chiseled square

878.0


(Continued from Smithton quadrangle; see line 8.)

Sedalia, at W. edge of, 20 ft. S. and 300 ft. E. from junction of U.S. Highway 50, on head wall of concrete culvert; chiseled square

877.60

Junction of rd. S. and 20 ft. E. from junction of West Twentieth Street, on concrete head wall of culvert; chiseled square

882.16

Underside of Missouri-Kansas-Texas R.R., on concrete head wall of culvert; chiseled square

893.74

Sedalia, 1.5 mi. S. of junction of U.S. Highway 90, 236 ft. S. and 90 ft. E. from crossroad, 2 ft. S. and 95 ft. W. from cor. of Hi Point School, 2 ft. W. of rail fence, in concrete post; standard tablet stamped "1096 C W A 1934"

851.06

Crossroad, on concrete head wall of culvert; surface of ground

878.0

T. 15 N., R. 21 W., in SE 1/4 sec. 17, 25 ft. N. and 20 ft. E. from junction of rd. W., on concrete head wall of culvert; chiseled square

867.50

T. 15 N., R. 21 W., in SE 1/4 sec. 20, on concrete head wall of culvert; standard tablet stamped "1097 C W A 1934"

792.78

Crossroad, on concrete head wall of culvert; chiseled square

894.927

T. 15 N., R. 21 W., in NW 1/4 sec. 32, 20 ft. E. of junction of old highway N., on concrete head wall of culvert; chiseled square

897.08


892.956

Reference mark, 12 ft. N. and 10 ft. E. from tablet, on concrete head wall of culvert; chiseled square

893.62

T. 14 N., R. 21 W., in SW 1/4 sec. 5, 20 ft. E. of highway, on head wall of concrete culvert; chiseled square

927.19

Junction of rd. W., on head wall of concrete culvert; chiseled square

928.20

T. 14 N., R. 21 W., cor. secs. 7, 8, 17, and 18, 15 ft. S. and 30 ft. E. from crossroad, on head wall of concrete culvert; chiseled square

915.57

T. 14 N., R. 21 W., cor. secs. 15, 16, 19, and 20, 15 ft. S. and 40 ft. W. from crossroad, 103 ft. W. of NW. corner of Midway Garage, 2 ft. inside right-of-way fence, in concrete post; standard tablet stamped "1098 C W A 1934"

927.255

Reference mark, 75 ft. N. of tablet, on head wall of concrete culvert; chiseled square

927.52

T. 14 N., R. 21 W., cor. secs. 19, 20, 29, and 30, 35 ft. S. and 20 ft. E. from crossroad, on head wall of concrete culvert; chiseled square

968.13

T. 14 N., R. 21 W., cor. secs. 29, 30, 31, and 32, 15 ft. N. and 25 ft. E. from junction of rd. E., on concrete head wall of culvert; chiseled square

1,017.22

Tps. 43 and 44 N., R. 21 W., cor. secs. 5, 6, 31, and 32, on Benton-Pettis county line, 14 ft. S. and 40 ft. E. from junction of State Highway 52 W. and rd. E., 9 ft. N. and 2 ft. E. from transmission-line pole, on right-of-way, in concrete post; standard tablet stamped "1099 C W A 1934"

999.158

Reference mark, 35 ft. SW. of tablet, on head wall of concrete culvert; chiseled square

998.79

T. 43 N., R. 21 W., cor. secs. 5, 6, 7, and 8, 10 ft. S. and 20 ft. E. from junction of private rd. E., on concrete pole culvert; chiseled square

1,004.65

*In line 3 of Windsor quadrangle (see Bull. 898-H, p. 1018).
SPIRIT LEVELING IN MISSOURI

Post 1,012.56

For additional level lines along Missouri Pacific R.R., Missouri-Kansas-Texas R.R., and Chicago, Rock Island & Pacific Ry., refer to United States Coast and Geodetic Survey first-order line, Jefferson City to Pleasant Hill; and second-order lines, Sedalia to Springfield and Versailles to Windsor.

LINCOLN QUADRANGLE

(Latitude 38°15'-38°30'; longitude 93°15'-93°30')

Benton County

1. FROM FRISTOE QUADRANGLE NORTH ALONG U.S. HIGHWAY 65 TO SEC. 10, T. 41 N., R. 22 W., THENCE EAST ALONG ROADS INTO COLE CAMP QUADRANGLE AT SEC. 9, T. 41 N., R. 21 W. (by C. E. Reick in 1932)

(Continued from Fristoe quadrangle; see line 2.)

Warsaw, 1 mi. NE. of, at junction of rd. W., E. of highway, in base of post; spike

T. 40 N., R. 22 W., in NW 1/4 sec. 9, 50 ft. NE. of junction of rd. E., on head wall of culvert; chiseled square


Reference mark, 820 ft. N. of tablet, on E. head wall of culvert; chiseled square

T. 41 N., R. 22 W., 300 ft. SE. of quarter cor. between secs. 22 and 27, 20 ft. NE. of junction of rd. NE., on head wall of culvert; chiseled square

T. 41 N., R. 22 W., center sec. 22, at crossing; surface of highway T. 41 N., R. 22 W., 0.2 mi. S. of center sec. 15, E. of highway, on head wall of culvert; chiseled square T. 41 N., R. 22 W., center sec. 15, 20 ft. S. and 48 ft. E. from crossroad, in concrete post; standard tablet stamped "T T 218 B 1932"

Reference mark, 10 ft. NW. of tablet, on head wall of culvert; chiseled square

T. 41 N., R. 22 W., center sec. 10, 5 mi. S. of Lincoln, 190 ft. SE. of junction of rd. E., on head wall of culvert; chiseled square T. 41 N., R. 22 W., 0.2 mi. W. of center sec. 11, 30 ft. NW. of T-rd. S., on boulder; chiseled square T. 41 N., R. 22 W., center sec. 12, 31 ft. S. and 81 ft. W. from 20 ft. S. and 20 ft. E. from rd. fork W., in concrete post; standard tablet stamped "T T 219 B 1932"

Reference mark, 560 ft. NE. of tablet, on small boulder; chiseled square T. 41 N., R. 22 W., 0.2 mi. S. of N. cor. secs. 1 and 6, 100 ft. NE. of rd. fork S., on head wall of culvert; chiseled square T. 41 N., R. 22 W., 0.2 mi. W. of center sec. 6, 30 ft. SW. of rd. fork S., on boulder; chiseled square


Reference mark, 360 ft. SE. of tablet, in root of 12-in. oak tree; copper nail

T. 41 N., R. 21 W., on line between secs. 5 and 6, 30 ft. S. of rd. fork SW., in root of 20-in. oak tree; copper nail

912.26

940.91
PART 7, CENTRAL MISSOURI, 1896-1958


Warsaw, 8 ml. E. of, along old Duroc-Warsaw rd., in SW 1/4 sec. 8, T. 40 N., R. 21 W., 15 ft. N. and 18 ft. W. from rd. fork, in root on N. side of 16-in. elm tree; copper nail and washer

Warsaw, 6.6 ml. E. of, along old Duroc-Warsaw rd., in NW 1/4 sec. 18, T. 40 N., R. 21 W., 315 ft. E. of range line, 21 ft. S. and 69 ft. E. from private rd. NW., in root on N. side of 18-in. oak tree; copper nail and washer

3. FROM COLE CAMP QUADRANGLE AT SEC. 16, T. 45 N., R. 21 W., WEST TO SEC. 18, T. 45 N., R. 21 W. (by C. P. Thompson in 1954)

Warsaw, 6 ml. E. of, along old Duroc-Warsaw rd., in SW 1/4 sec. 9, T. 15 N., R. 21 W., near center of SW 1/4 sec. 9, in triangle at rd. fork E., in root of 24-in. oak tree; copper nail

(Continued in Cole Camp quadrangle; see line 1.)

(Continued from Pristoe quadrangle; see line 4.)


Warsaw, 8 ml. E. of, along old Duroc-Warsaw rd., in SW 1/4 sec. 19, T. 45 N., R. 25 W., 650 ft. W. of St. John's Lutheran Church, 9 ft. S. and 895 ft. E. from crossroads, on E. end of S. head wall of culvert; chiseled square

(Continued in Green Ridge quadrangle; see line 1.)

(Continued from Cole Camp quadrangle; see line 5.)
SPIRIT LEVELING IN MISSOURI

5. FROM COLE CAMP QUADRANGLE AT SEC. 28, T. 1/2 N., R. 21 W.,

WEST BY WAY OF LINCOLN TO SEC. 30, T. 1/2 N., R. 22 W., THENCE
SOUTH AND EAST TO SEC. 15, T. 1/4 N., R. 22 W. (by
C. F. Thompson and Cornish Beck in 1934,
(Continued from Cole Camp quadrangle; see line 6.)

T. 1 1/2 N., R. 21 W., in E 1/2 sec. 29, 110 ft. N. and 90 ft. W. from
rd. forks, 60 ft. W. of rd., in root on SE. side of 16-in. elm tree;
copper nail and washer

T. 1/2 N., R. 21 W., cor. sec. 19, 20, 29, and 30, 10 ft. S. and 15 ft. E.
from T-rd. N., 75 ft. E. of transmission-line, on center of head
wall of concrete culvert; chiseled square

Lincoln, 2.5 mi. E. and 0.2 mi. N. from, near W. sixteenth cor. between
sections 19 and 20, 90 ft. N. and 21 ft. E. from
T-rd. E., on land of Hugh D. Morris, 2 ft. W. of fence, in concrete
post; standard tablet stamped "T 566 G W A 1921"

Lincoln, 1.5 mi. E. of C. P. Thompson and Cornish Beck in 1931,
15 ft. S. and 35 ft. W. from rd. fork, in
root on SE. side of 16-in. elm tree; copper
nail and washer

Lincoln, 60 ft. N. of Missouri Pacific R.R. sta., 16 ft. W. of mainline
track, 20 ft. N. of Main Street, in concrete post; standard tablet
stamped "T T 569 G W A 1921"

Lincoln, 1 mi. W. of, along County Route C, 25 ft. S. of highway, 12 ft.
E. of junction of private rd. S., on E. end of iron pipe culvert;
painted square

Lincoln, 2 mi. W. of, along County Route C, 15 ft. N. of highway, in SW.
corner of yard, in root on SW. side of 10-in. post-
cook tree; copper nail and washer

Lincoln, 2.2 mi. W. of, in E 1/2 sec. 30, T. 1/2 N., R. 22 W., 27 ft. N.
and 15 ft. E. from rd. junction, 15 ft. SW. or SW. corner of Bethel
Baptist Church, in concrete post; standard tablet stamped "T T 570
G W A 1921"

corner, 1/2 ft. S. of fence W., in root on SE. side of 28-in. black-oak
tree; copper nail and washer

Tps. 1/2 and 1/2 N., R. 22 W., near W. sixteenth cor. between secs. 6 and
31, 35 ft. N. and 110 ft. W. from T-rd. S., in yard of C. E. Armstrong,
in root on SE. side of 16-in. post-oak tree; copper nail and washer

T. 1/2 N., R. 22 W., in NE 1/4 sec. 3, 70 ft. W. of Cherrydale School,
20 ft. E. of rd., 5 ft. NW. of triangular-blazed 20-in. tree, in
yard, in concrete post; standard tablet stamped "T T 571 G W A 1921"

T. 1/2 N., R. 22 W., near E. sixteenth cor. between secs. 1 and 12,
10 ft. N. of Filling Branch, 7 ft. E. of rd., in root on W. side of
20-in. water-oak tree; copper nail and washer

T. 1/2 N., R. 23 W., in NW 1/4 SW 1/4 sec. 12, 15 ft. N. and 18 ft. E.,
from rd. fork, 6-in. and 18-in. trees, about 300 ft. E. of new
graveled rd., in root on S. side of 31-in. black-oak tree; copper
nail and washer

Paso, about 0.6 mi. NW. of, center of NW 1/4 sec. 13, T. 1/2 N., R. 23 W.,
27 ft. W. of rd., 12 ft. N. of triangular-blazed 24-in. black-oak tree,
in concrete post; standard tablet stamped "T T 572 G W A 1921"

Paso, at filling sta., on SW. corner of gasoline pump; chiseled square
Paso, 1.2 mi. S. of, 95 ft. S. and 25 ft. W. from T-rd. N., in root on
N. side of 36-in. white-oak tree; copper nail and washer

Paso, 1 mi. S. and 1.2 mi. E. from, near center of SE 1/4 sec. 19,
cedar tree, in concrete post; standard tablet stamped "T T 573 C W A
1921"

T. 1/2 N., R. 22 W., in SW 1/4 SW 1/4 sec. 20, 18 ft. N. of rd. fork, in
root on S. side of 50-in. post-oak tree; copper nail and washer

Schuyler, 95 ft. N. of Missouri Pacific R.R., 10 ft. N. of rd., on SW.
corner of bottom concrete step; painted square

6. FROM SEC. 20, T. 1/2 N., R. 22 W., SOUTH TO SEC. 30, T. 1/2 N.,
R. 22 W. (by Cornish Beck in 1934)

T. 1/2 N., R. 22 W., near W. sixteenth cor. between secs. 29 and 30,
opposite driveway to dwelling of Edward Keuper, 20 ft. W. of rd.,
in root on NE. side of 18-in. cherry tree; copper nail and washer

W. of rd., 3 ft. N. of NE. end of head wall of concrete culvert; chiseled
square

T. 1/2 N., R. 22 W., in SE 1/4 sec. 6, 10 ft. E. of rd., 7 ft. N. of private
rd. E., on center of concrete head wall of culvert; painted square

974
T. 42 N., R. 22 W., S. sixteenth cor. between secs. 7 and 8, 17 ft. N. and 55 ft. E. from T-rd. N., in concrete post; standard tablet stamped "T T 655 C W A 1934".

T. 42 N., R. 22 W., E. sixteenth cor. between secs. 7 and 8, 15 ft. N. of rd., 8 ft. N. of private rd. E., in center of head wall of concrete culvert; chiseled square 751.60

T. 42 N., R. 22 W., SE 1/4 of SE 1/4 sec. 32, 10 ft. N. and 15 ft. E. from T-rd. W., in gatepost, in root on NW. side of oak tree; copper nail and washer 816.02


T. 42 N., R. 23 W., S. quarter cor. sec. 32, 25 ft. N. and 9 ft. W. from T-rd. N., on top of W. head wall of concrete culvert; chiseled square 815.88

Lincoln, 8.5 mi. W. of, quarter cor. between secs. 29 and 32, T. 42 N., R. 23 W., 30 ft. S. and 10 ft. E. from crossroad, in concrete post; standard tablet stamped "T 651 C W A 1934" 809.760

Lincoln, 7.5 mi. W. of, quarter cor. between secs. 28 and 32, T. 42 N., R. 23 W., 20 ft. S. and 60 ft. W. from junction of private rds. N. and S., in front of dwelling of Ames Frisio, in root on N. side of wild-cherry tree; copper nail and washer 809.50

Lincoln, 6 mi. W. of, S. half of W. half of W. half of SE 1/4 sec. 28, T. 42 N., R. 23 W., on top of NW. wing wall of bridge; chiseled square 805.06


Racket, 4.50 ft. E. of, 35 ft. N. and 24 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "1260 E R A 1935".


Racket, about 1.7 mi. NE. of, in NW 1/4 sec. 28, T. 42 N., R. 23 W., on E. end of S. wall of E. abutment of suspension bridge over Tebo Branch of Lake of the Ozarks; chiseled square 661.59


T. 42 N., R. 23 W., in WN 1/4 sec. 26, 10 ft. N. and 15 ft. E. from crossroad, in root on N. side of 12-in. oak tree; copper nail and washer 814.56

T. 42 N., R. 23 W., in S 1/2 sec. 25, 20 ft. S. and 10 ft. E. from T-rd. W., on SE. wing wall of concrete culvert; chiseled square 700.24


Passo, 2 mi. S. and 0.5 mi. E. from, in W 1/2 sec. 50, T. 42 N., R. 22 W., on top of NW. wing of bridge; chiseled square 678.50


T. 42 N., R. 23 W., on line between secs. 26 and 35, 660 ft. W. of T-rd. W., on NE. head wall of concrete arch bridge; chiseled square 691.14

T. 42 N., R. 23 W., in SW 1/4 SW 1/4 sec. 26, at base of bridge shoe on S. end of E. abutment of bridge over Grand River Arm Lake of the Ozarks; chiseled square 679.50
SPIRIT LEVELING IN MISSOURI

T. 41 N., R. 23 W., near N. sixteenth cor. sec. 34, 10 ft. N. of rd. corner S.-E., in root on E. side of 12-in. elm tree; copper nail and washer

Tps. 10 and 11 N., R. 23 W., on line between secs. 3 and 34, 38 ft. E. of cross fences, 41 ft. W. of old rd. at wire gap, 3 ft. S. of fence, in concrete post; standard tablet stamped "1269 B R A 1935"

T. 40 N., R. 23 W., cor. secs. 2, 3, 10, and 11, 0.5 mi. S. of Corn Hill School, 50 ft. S. and 30 ft. W. from fence corner, NW. of T-rd. N., in root on S. side of fence, in concrete post; standard tablet stamped "T T 12614. ERA 1935"

(Continued in Fristoe quadrangle; see line 8.)


POPLAR, 0.5 mi. W. of, near center sec. 22, T. 41 N., R. 22 W., 40 ft. S. and 40 ft. W. from U.S. Highway 65 at crossroad, 25 ft. E. of front of filling sta., chiseled square

POPLAR, 0.5 mi. E. of, 45 ft. N. and 300 ft. E. from center sec. 29, T. 41 N., R. 22 W., 30 ft. N. of fence, in root on S. side of 10-in. black-locust tree; copper nail and washer

POPLAR, 1.5 mi. E. of, near center sec. 28, T. 41 N., R. 22 W., 18 ft. S. and 18 ft. W. from T-rd. S., in root on N. side of 8-in. oak tree; copper nail and washer

POPLAR, 0.5 mi. E. of, 18 ft. N. and 300 ft. E. from center sec. 23, T. 41 N., R. 22 W., 30 ft. N. of fence, in root on S. side of 18-in. oak tree; copper nail and washer

(Continued in Cole Camp quadrangle; see line 8.)

12. FROM CALHOUN QUADRANGLE AT SEC. 6, T. 41 N., R. 23 W., NORTH TO SEC. 20, T. 43 N., R. 23 W. (by S. T. Tudor in 1936)

T. 42 N., R. 23 W., center cor. sec. 29, 12 ft. S. and 25 ft. E. from T-rd. W., in W. side of telephone pole; spike

T. 42 N., R. 23 W., S. sixteenth cor. sec. 20, 270 ft. N. and 20 ft. W. from T-rd. E., in root on E. side of 18-in. hackberry tree; copper nail and washer

Ford across creek, 150 ft. N. and 20 ft. E. from, in root on W. side of oak tree; crossed nails

T. 42 N., R. 23 W., S. sixteenth cor. sec. 17, 10 ft. S. and 35 ft. W. from T-rd. W., on top of concrete low-water bridge; chiseled square

T. 42 N., R. 23 W., in SE 1/4 sec. 17, 40 ft. N. and 20 ft. E. from T-rd. W., in root on W. side of 24-in. oak tree; copper nail and washer

T. 42 N., R. 23 W., in SW 1/4 NW 1/4 sec. 28, 15 ft. S. and 15 ft. E. from T-rd. W., in root on N. side of 12-in. oak tree; copper nail and washer

(Continued in Cole Camp quadrangle; see line 8.)

Bridge over creek, on top of S. end of W. girder; painted square

Barker Creek, on top of W. end of N. abutment of bridge; chiseled square

T. 43 N., R. 23 W., near E. sixteenth cor. between secs. 29 and 32, 15 ft. S. and 40 ft. W. from T-rd. S., in N. side of fence post; spike

(Continued in Calhoun quadrangle (see Bull. 896-H; pp. 1022-1023).)
1. FROM HUMANSVILLE QUADRANGLE AT SEC. 13, T. 37 N., R. 23 W., EAST AND NORTH TO QUINCY, THENCE EAST TO WHITE CLOUD, THEN S. W. TO HERMITAGE, THENCE E. ALONG U.S. HIGHWAY 54 INTO URBANA QUADRANGLE, INCLUDING THAT PART OF THE LINE IN HERMITAGE QUADRANGLE (second-order line by H. P. Jones in 1934).

Pristoe Quadrangle
(Latitude 38°00'-38°15'; longitude 93°15'-93°30')

Benton, Hickory, and St. Clair Counties

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Quincy, 1.2 mi. S. of, along State Highway 85, 10 ft. S. and 25 ft. E. from junction of rd. E., on S. head wall of concrete culvert; chiseled square.

Quincy, about 0.2 mi. S. of post office, along State Highway 85, 20 ft. N. and 20 ft. E. from junction of rd. E., on N. head wall of culvert; chiseled square.

Quincy, 0.3 mi. N. of, along State Highway 85, 20 ft. N. and 31 ft. W. from junction of rd. E., 175 ft. S. of rd. fork S., in concrete post.

Quincy, 1.4 mi. NE of, near line between secs. 27 and 28, T. 38 N., R. 23 W., 15 ft. N. of rd. fork S., in root on S. side of 18-in. black-oak tree; copper nail and washer.

Quincy, 2.3 mi. NE of, near center sec. 27, T. 38 N., R. 23 W., on N. end of E. abutment of bridge over Pomme de Terre River; chiseled square.

Quincy, 2.8 mi. NE of, 0.5 mi. E. of bridge over Pomme de Terre River, near line between secs. 26 and 27, T. 38 N., R. 23 W., 15 ft. S. of rd. fork S., in root on N. side of 12-in. black-oak tree; copper nail and washer.

White Cloud, about 2.7 mi. W. of, 1.6 mi. N. of Meyers School, on line between secs. 23 and 26, T. 38 N., R. 23 W., 34 ft. S. and 30 ft. W. from T-rd. W., in concrete post; standard tablet stamped "F 76 B 1933 968".


White Cloud, at SW. corner of store of J. C. Franklin, 15 ft. N. and 15 ft. E. from crossings, in NW. corner of concrete porch; standard tablet stamped "F 77 J 1934 985".


White Cloud, 1.2 mi. W. of, in E 1/2 sec. 32, on mail route from White Cloud to Cross Timbers, at crossings, at dwelling of Harrison Barache, in root of stump of 12-in. oak tree; nail.

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Published also as line 1 of the Hermitage quadrangle (see Bull. 898-E, pp. 726-727).
SPIRIT LEVELING IN MISSOURI

2. FROM CROSS TIMBERS QUADRANGLE AT SEC. 5, T. 39 N., R. 21 W., NORTHWEST TO MAJORVILLE, THENCE WEST TO SEC. 3, T. 39 N., R. 21 W., THENCE NORTH ALONG U.S. HIGHWAY 65 INTO LINCOLN QUADRANGLE (BY O. E. REICK IN 1932) (Continued from Cross Timbers quadrangle; see line 2.)

Majorville, 1.5 mi. SE. of, in S 1/2 of NW 1/4 sec. 5, T. 39 N., R. 21 W., on NW. abutment of bridge over Turkey Creek; chiseled square

Majorville, 0.9 mi. S. and 0.4 mi. E. from NW. cor. sec. 6, T. 39 N., R. 21 W., in concrete post; standard tablet stamped "T 207 B 1932"

Reference mark, 750 ft. SE. of tablet, 90 ft. NW. of rd. fork, in root of 20-in. oak tree; copper nail

T. 39 N., R. 22 W., in NE 1/4 sec. 1, 2 mi. NE of Dello, 60 ft. W. of rd. corner S.-R., in root of 30-in. locust tree; copper nail

T. 39 N., R. 22 W., in NE 1/4 sec. 2, 1 mi. NE of Dello, S. of rd., in root of 24-in. walnut tree; copper nail

T. 39 N., R. 22 W., 1/25 mi. N. of S. cor. secs. 2 and 3, about 0.5 mi. W. of Webster and Guy General Store at Dell, 32 ft. N. and 26 ft. W. from T-_rd. S., in concrete post; standard tablet stamped "T 214 B 1932"

Reference mark, 300 ft. E. of tablet, on head wall of culvert; chiseled square

Dell, 0.6 mi. NW. of, at junction of rd. E. to Climax Springs, on E. head wall of culvert; chiseled square

T. 40 N., R. 22 W., in N 1/2 of NW 1/4 sec. 3, E. of highway, in base of telephone pole; spike

T. 40 N., R. 22 W., in E 1/2 sec. 35, 2 mi. NW. of Dell, at junction of W. W. of highway; on S. end of culvert; chiseled square

T. 40 N., R. 22 W., in NE 1/4 NE 1/4 sec. 35, 20 ft. S. and 60 ft. E. from junction of rd. NE. to Durroc, in concrete post; standard tablet stamped "T 215 B 1932"

T. 40 N., R. 22 W., in SW 1/4 sec. 26, W. of highway, on boulder; chiseled square

T. 40 N., R. 22 W., in NW 1/4 NE 1/4 sec. 27, 100 ft. SE. of junction of rd. W. to Fairfield, E. of highway, in root of 24-in. oak tree; copper nail

Warsaw, on W. coping at S. end of bridge over Osage River; chiseled square
PART 7, CENTRAL MISSOURI, 1896-1938

T. 10 N., R. 22 W., In SE 1/4 sec. 16, about 0.3 mi. N. of N. end of bridge over Lake of the Ozarks, 35 ft. S. and 35 ft. E. from Missouri Pacific R.R. at highway crossing, in concrete post; standard tablet stamped "T T 216 E 1932" 681.101

Warsaw, 5 in. N. of SE. corner of courthouse, leaded vertically in water table; brass rod (U.S.C. & G.S. B.M.) 715.056

(Continued in Lincoln quadrangle; see line 1.)

3. FROM MAJORVILLE NORTH AND EAST INTO CROSS TIMBERS QUADRANGLE AT SEC. 28, T. 10 N., R. 21 W. (by C. E. Reick in 1932)

T. 10 N., R. 21 W., In NE 1/4 SW 1/4 sec. 33, 50 ft. E. of crossroads, in root of 21-in. oak tree; copper nail 860.61


Reference mark, 0.2 mi. E. of tablet, on NW. abutment of bridge over Turkey Creek; chiseled square 707.73

(Continued in Cross Timbers quadrangle; see line 3.)

4. FROM CROSS TIMBERS QUADRANGLE AT SEC. 16, T. 10 N., R. 21 W., WEST TO WARS AW (by C. P. Thompson in 1934)

(Continued from Cross Timbers quadrangle; see line 7.)

T. 10 N., R. 22 W., about 700 ft. W. of quarter cor. between secs. 16 and 17, 50 ft. N. and 80 ft. E. from NE. corner of old log building at site of Old Predonia, 25 ft. S. of Old Warsaw-Duroc Road, in concrete post; standard tablet stamped "T 555 C W A 1934" 700.552

Reference mark, 21 ft. S. and 51 ft. W. from tablet, in root on NE. side of 16-in. cedar tree; copper nail and washer 701.33

(For balance in Lincoln quadrangle, see line 2.)

T. 10 N., R. 22 W., near center sec. 13, 29 ft. S. of rd., in fence line, in root on N. side of 20-in. oak tree; copper nail and washer 873.95

T. 10 N., R. 22 W., In SW. cor. sec. 13, on W. end of concrete step of Lookout School; chiseled square 861.44


Reference mark, 30 ft. W. of tablet, in root on E. side of 24-in. black-oak tree; copper nail and washer 897.31

T. 10 N., R. 22 W., In NE 1/4 sec. 22, 27 ft. S. of rd. fork NE., in root on W. side of 12-in. post-oak tree; copper nail and washer 792.72

T. 10 N., R. 22 W., In NW 1/4 SE 1/4 sec. 22, 230 ft. S. of T-rd. E., near dwelling, on W. end of W. head wall of concrete bridge over White Branch; chiseled square 677.68

Warsaw, at U.S. Highway 65 bridge over Osage River, on E. end of N. abutment; U.S.C. & G.S. standard disk stamped "M 35 1934" 673.24

Reference mark, 10 ft. N. and 17 ft. E. from tablet, in root on W. side of 18-in. elm tree; copper nail and washer (H.M. for T.T. 216B 1932) 681.12


T. 10 N., R. 22 W., In SW 1/4 sec. 17, on W. end of bridge over Osage River, on top of W. end of S. handrail; chiseled square 667.58


Warsaw, 2.2 mi. W. of, on S. end of E. abutment of bridge over Osage River; chiseled square 671.39

Warsaw, 3 mi. W. of, on line between secs. 25 and 24, T. 10 N., R. 23 W., 50 ft. N. and 20 ft. W. from crossroad, in root on S. side of black-oak tree; copper nail and washer 760.60

U.S.C. & G.S. standard disk stamped "Q 35 1934" 786.652

Warsaw, 2.5 mi. E. of, on 20 ft. S. of rd., in root on E. side of 24-in. white-oak tree; copper nail and washer 799.992

U.S.C. & G.S. standard disk stamped "R 35 1934" 792.45


Warsaw, 0.7 mi. S. of, near quarter cor. between secs. 20 and 21, T. 10 N., R. 22 W., at suspension bridge over Osage River, on W. concrete handrail at N. approach; chiseled square 665.50


Warsaw, 2.5 mi. S. of, in NW 1/4 sec. 35, T. 10 N., R. 22 W., on E. head wall of concrete culvert; chiseled square 761.66

6. FROM WARS AW SOUTH TO SEC. 28, T. 10 N., R. 22 W., THENCE SOUTH ALONG COUNTY ROUTE E TO PAIRPIELD, THENCE EAST ALONG ROADS TO DELL (by C. T. Shepherd in 1935)

Warsaw, 0.7 mi. S. of, near quarter cor. between secs. 20 and 21, T. 10 N., R. 22 W., at suspension bridge over Osage River, on W. concrete handrail at N. approach; chiseled square 665.50

T. 39 N., R. 22 W., in NE 1/4 sec. 6, 0.2 mi. S. of farmhouse of Joe Crawford, 300 ft. S. of fence corner, on E. head wall of concrete culvert. (Mark not described)

T. 39 N., R. 22 W., in SE 1/4 sec. 6, 400 ft. S. of junction of rd. E., on N. end of concrete triple-box culvert; chiseled square

Fairfield, 0.2 mi. SE. of Sw. SW. of Baptist Church, 35 ft. SE. of highway, 5 ft. SE. of right-of-way fence, in concrete post; standard tablet stamped "206 C W A 1935."

Dell, 2 mi. SW. of, along Fairfield rd., on line between secs. 3 and 4, T. 39 N., R. 22 W., 70 ft. N. of Y-rds. W., S., and NE., in root on S. side of 12-in. oak tree; copper nail and washer


T. 40 N., R. 22 W., in NW 1/4 sec. 25, 18 ft. S. and 20 ft. E. from crossroads, in root on S. side of 15-in. oak tree; copper nail and washer


T. 40 N., R. 22 W., in SE 1/4 sec. 29, 160 ft. S. of SE. corner of yard of Friction Point School, 15 ft. W. of rd.; in root on N. side of 14-in. oak tree; copper nail and washer

T. 40 N., R. 22 W., in NW 1/4 sec. 10, about 0.2 mi. E. of dwelling of Zenas E. Jones, 30 ft. S. of Fairfield-Wisdom rd., in concrete post; standard tablet stamped "214.7 C W A 1936."

T. 39 N., R. 23 W., in NW 1/4 sec. 10, on Fairfield-Wisdom rd., 800 ft. E. of farmhouse, 30 ft. N. of rd., in root of 2-in. elm tree; copper nail and washer

T. 39 N., R. 21 W., in SE 1/4 sec. 29, 160 ft. S. of SE. corner of yard of Friction Point School, 15 ft. W. of rd.; in root on N. side of 12-in. oak tree; copper nail and washer

8. FROM LINCOLN QUADRANGLE AT SEC. 15, T. 40 N., R. 23 W., SOUTH TO SEC. 22, T. 40 N., R. 23 W. (by C. T. Shepherd in 1935) (Continued from Lincoln quadrangle; see line 10.)

T. 40 N., R. 23 W., in SE 1/4 sec. 15, 0.7 mi. E. of State Highway 35, along wood trail on top of hill, 16 ft. S. of rd., in root on N. side of 14-in. oak tree; copper nail and washer

T. 39 N., R. 21 W., in SE 1/4 sec. 29, 160 ft. S. of SE. corner of yard of Friction Point School, 15 ft. W. of rd.; in root on N. side of 12-in. oak tree; copper nail and washer

Wisdom, 1 mi. W. of, 35 ft. N. and 20 ft. W. from ford across Hoglea Creek, in root on E. side of twin 36-in. sycamore tree; copper nail and washer


Wisdom, 0.3 mi. E. of, at ford across Little Hoglea Creek, in root of 15-in. walnut tree; nail

Wisdom, 1.4 mi. E. of, 25 ft. S. and 55 ft. W. from crossroads, in root of 30-in. elm tree; copper nail and washer


T. 39 N., R. 23 W., in NE 1/4 sec. 10, at top of hill at 131 ft. NE., in root of 6-in. wild-cherry tree; nail

T. 39 N., R. 23 W., in SE 1/4 sec. 11, on Fairfield-Wisdom rd., 800 ft. E. of farmhouse, 30 ft. N. of rd., in root of 2-in. elm tree; copper nail and washer

T. 39 N., R. 23 W., on line between secs. 11 and 12, on NW. corner of concrete bridge over Little Pomme de Terre River; chiseled square

Fairfield, 0.5 mi. SW. of, 60 ft. N. of rd. forks NE., SW., and NW., in root of 30-in. pin-oak tree; copper nail and washer

Fairfield, 0.6 mi. SW. of, at SW. corner of bridge over Pomme de Terre River, on concrete curb rail; chiseled square


Wisdom, 1 mi. W. of, 35 ft. N. and 20 ft. W. from ford across Hoglea Creek, in root on E. side of twin 36-in. sycamore tree; copper nail and washer


Wisdom, 0.3 mi. E. of, at ford across Little Hoglea Creek, in root of 15-in. walnut tree; nail

Wisdom, 1.4 mi. E. of, 25 ft. S. and 55 ft. W. from crossroads, in root of 30-in. elm tree; copper nail and washer


T. 39 N., R. 23 W., in NE 1/4 sec. 10, at top of hill at 131 ft. NE., in root of 6-in. wild-cherry tree; nail

T. 39 N., R. 23 W., in SE 1/4 sec. 11, on Fairfield-Wisdom rd., 800 ft. E. of farmhouse, 30 ft. N. of rd., in root of 2-in. elm tree; copper nail and washer

T. 39 N., R. 23 W., on line between secs. 11 and 12, on NW. corner of concrete bridge over Little Pomme de Terre River; chiseled square

Fairfield, 0.5 mi. SW. of, 60 ft. N. of rd. forks NE., SW., and NW., in root of 30-in. pin-oak tree; copper nail and washer

Fairfield, 0.6 mi. SW. of, at SW. corner of bridge over Pomme de Terre River, on concrete curb rail; chiseled square
PART 7, CENTRAL MISSOURI, 1896-1956

10. FROM WISDOM SOUTH TO SEC. 29, T. 39 N., R. 23 W., THENCE EAST TO PRISTOE (by F. C. Lentz in 1956)

T. 39 N., R. 23 W., in NE 1/4 sec. 8, at bridge over small branch, in root of 28-in. pin-oak tree; copper nail and washer 911.82

T. 39 N., R. 23 W., in NE 1/4 sec. 9, at cedar tree on hill, in root of 18-in. black-oak tree; copper nail and washer 911.55

T. 39 N., R. 23 W., near S. sixteenth cor. between secs. 8 and 9, 1/4 ft. N. and 60 ft. E. from Freedom School, 26 ft. W. of rd., in concrete post; standard tablet stamped "I T 13 C 1956" 820.181

T. 39 N., R. 23 W., on line between secs. 16 and 17, at top of hill, 20 ft. E. of rd., in root of 18-in. hickory tree; copper nail and washer 897.32

T. 39 N., R. 23 W., quarter cor. between secs. 17 and 20, 50 ft. S. and 25 ft. E. from T-rd. W., in root of 18-in. walnut tree; copper nail and washer 880.94

T. 38 N., R. 25 W., in sec. 7, at NE corner of Harper's Cemetery, 20 ft. E. of rd., in root of 18-in. hickory tree; painted square 905.05

T. 39 N., R. 23 W., on line between secs. 28 and 29, 20 ft. S. and 30 ft. E. from rd. corner S.-E., in root of 28-in. white-oak tree; copper nail and washer 911.82


Weaver School, 6.5 mi. NW. of, at 15 ft. of rd. corner NE.-SE., in root of 18-in. elm tree; copper nail and washer 732.99

Weaver School, 50 ft. N. and 100 ft. E. from, 25 ft. N. of rd., in Union of 18-in. pin-oak tree; copper nail and washer 728.22

Weaver School, 0.8 mi. SE. of, 100 ft. S. and 45 ft. W. from T-rd. E., in root of 18-in. elm tree; copper nail and washer 737.55

T. 39 N., R. 22 W., near N. quarter cor. sec. 31, on ridge, 57 ft. S. and 8 ft. W. from fence corner, 18-in. post-oak tree, in limestone outcrop; standard tablet stamped "I T 11 C 1956" 914.453

Farmhouse of J. P. Btrd, 250 ft. SE. of, 100 ft. SW. of gate to barnyard, in root of twin 16-in. white-oak tree; copper nail and washer 783.02


Farmhouse of James A. Lay, 275 ft. SE. of, 5 ft. N. of rd., in root of 15-in. white-oak tree; copper nail and washer 780.54

T. 39 N., R. 22 W., in SE 1/4 sec. 20, 75 ft. S. and 70 ft. W. from rd. corner N.-E., in root of 10-in. white-oak tree; copper nail and washer 712.32

T. 39 N., R. 22 W., in NE 1/4 sec. 21, about 0.8 mi. W. of farm­house of E. Gentry, 25 ft. N. of rd., in fence line, in root of 18-in. water-oak tree; copper nail and washer 899.87


T. 39 N., R. 22 W., near N. quarter cor. between secs. 14 and 23, about 250 ft. SE. of dwelling of J. Boyer, in root of 28-in. white-oak tree; copper nail and washer 1,013.77

Pristoe, 1.2 mi. W. of, 30 ft. S. and 40 ft. E. from rd. forks, in root of 10-in. white-oak tree; copper nail and washer 980.07

Sory triangulation sta.; U.S.C. & G.S. standard disk stamped "Sory 1928" 1,027.308

Reference mark 2; U.S.C. & G.S. standard reference disk stamped "Sory No 2" 1,015.277


Reference mark, 1/4 ft. NE. of tablet, on SW. corner of first step; chiseled square 949.05

11. FROM HARPER EAST TO SEC. 17, T. 39 N., R. 23 W., THENCE SOUTH ALONG STATE HIGHWAY 85 TO QUINCY, THENCE WEST ALONG ROADS TO SEC. 26, T. 38 N., R. 26 W., THENCE SOUTH INTO HUMANSVILLE QUADRANGLE AT SEC. 2, T. 37 N., R. 26 W., INCLUDING THAT PART OF THE LINE IN LOWRY CITY QUADRANGLE (by F. C. Lentz in 1956)

Harper, 110 ft. NW. of, NW. corner of school, 20 ft. E. of rd., in concrete post; standard tablet stamped "I T 1956" 910.571

Reference mark, 60 ft. SE. of tablet, on NW. corner of concrete base of pump; chiseled square 940.13

T. 38 N., R. 22 W., in sec. 11, 50 ft. N. of rd. 250 ft. E. of barn; in root on E. side of 38-in. white-oak tree; bolt 932.92

T. 38 N., R. 23 W., in sec. 7, at NE. corner of Harper's Cemetery, 30 ft. W. of rd., in root on E. side of 18-in. white-oak tree; copper nail and washer 921.67

T. 38 N., R. 23 W., in NW 1/4 sec. 17, 125 ft. SE. of SE. corner of farmhouse of H. Burton, 60 ft. NE. of rd. at curve, in root of 18-in. white-oak tree; copper nail and washer 938.75

T. 38 N., R. 23 W., in SW 1/4 sec. 17, 20 ft. S. and 20 ft. W. from T-rd. N., in root of 8-in. white-oak tree; copper nail and washer 951.20

*In line 6 of the Lowry City quadrangle (see Bull. 895 H, pp. 1025-1026).
SPIRIT LEVELING IN MISSOURI

T. 39 N., R. 23 W., near E. sixteenth cor. between secs. 17 and 20, 16 ft. N. and 28 ft. E. from crossroad, in concrete post; standard tablet stamped "9 L 1936". Reference mark, 75 ft. SW. of tablet, on concrete head wall of culvert; chiseled square.

Quincy, 1.2 mi. N. of, 20 ft. E. of highway, 10 ft. NW. of 36-in. elm tree; concrete head wall of culvert; chiseled square. Crossroad, on concrete head wall of culvert; chiseled square.

Quincy, 0.2 mi. N. and 1 mi. W. from, at ford across Hogles Creek, 10 ft. SW. of creek, 35 ft. W. of rd., in root of 40-in. aspen tree; copper nail and washer.


Prairie Grove School, 0.2 mi. W. of, in sec. 25, T. 38 N., R. 24 W., in center of triangle formed by T-rd. N., in concrete post; standard tablet stamped "9 L 1936".


T-rd. W., in 30-in. white-oak tree; nail.


Rd. forks on ridge, 45 ft. S. and 25 ft. W. from, in root of 6-in. walnut tree; copper nail and washer.


Fairfield, 2 mi. SW. of, on Bentonville-Fairfield rd., at NE. corner of bridge over Little Pomme de Terre River, on top of concrete abutment; chiseled square.

Dim rd. W., on concrete head wall; chiseled square.


Iconium, 150 ft. N. and 125 ft. W. from T-rd. W., at SW. corner of school, on SW. corner of concrete base of well; chiseled square.

Iconium, near S. limits of, 5i ft. SE. of, SE. corner of Liberty Missionary Baptist Church, 36 ft. E. of, 16-in. oak tree, in concrete post; standard tablet stamped "9 L 1936".


Harper, 1.7 mi. N. of, on Harper-Iconium rd., 50 ft. S. and 30 ft. E. from junction of rd. E., in root of twin 2i-in. white-oak tree; copper nail and washer.

Harper, 0.9 mi. N. of, on Harper-Iconium rd., 15 ft. E. from junction of rd. W. and dim rd. E., in 30-in. water-oak tree; copper nail and washer.

14. FROM ICONIUM SOUTH TO HARPER (by F. C. Lentz in 1936)

Iconium, 0.8 mi. N. of, 15 ft. S. and 15 ft. E. from T-rd. E., at SW. corner of school, on SW. corner of concrete base of well; chiseled square.

Iconium, near S. limits of, 5i ft. SE. of,SE. corner of Liberty Missionary Baptist Church, 36 ft. E. of, 16-in. oak tree, in concrete post; standard tablet stamped "9 L 1936".


Harper, 1.7 mi. N. of, on Harper-Iconium rd., 50 ft. S. and 30 ft. E. from junction of rd. E., in root of twin 2i-in. white-oak tree; copper nail and washer.

Harper, 0.9 mi. N. of, on Harper-Iconium rd., 15 ft. E. from junction of rd. W. and dim rd. E., in 30-in. water-oak tree; copper nail and washer.

15. FROM ICONIUM NORTH TO POINT 2 MILES EAST OF FINEY (by F. C. Lentz in 1936)

Iconium, 0.8 mi. N. of, 15 ft. S. and 15 ft. E. from T-rd. E., on top of concrete head wall; chiseled square.


*In line 8 of the Lowry City quadrangle (see Bull. 898-H, pp. 1026-1027).

**In line 9 of the Lowry City quadrangle (see Bull. 898-H, p. 1027).
Intersection of ridge trails, about 0.5 mi. S. of Osage River, in root on E. side of triangular-blazed 14-in. hickory tree; copper nail and washer.

Osage River, 0.4 mi. E. (W. ?) of, 350 ft. S. of farmhouse of B. N. Smith, 24 ft. SE. of rd., in root on N. side of 14-in. elm tree; copper nail and washer.

White Sulphur Springs, 0.3 mi. SW. of, on top of ridge, 28 ft. W. of rd., in root on E. side of 18-in. white-oak tree; copper nail and washer.


White Sulphur Springs Camp, 1.2 mi. N. of, 65 ft. SW. of SW. corner of Mountain Home School, 50 ft. NW. of rd., in root on S. side of 18-in. white-oak tree; copper nail and washer.

Rd. forks NE., NW., and S., in root of 10-in. hickory tree; copper nail.

Finey, 2 mi. E. and 0.3 mi. S. from, 25 ft. E. of rd. at fence corner, in root of 30-in. black-oak tree; copper nail and washer.


For additional level lines along U.S. Highway 65, State Highway 35, and roads, refer to United States Coast and Geodetic Survey second-order line, Linn Creek to Brownington.
1. FROM VERSAILLES NO. 3 QUADRANGLE AT SEC. 15, T. 38 N., R. 19 W., NORTHWEST TO CLIMAX SPRINGS, THENCE EAST ALONG BARNUMTON ROAD INTO VERSAILLES NO. 3 QUADRANGLE AT SEC. 22, T. 39 N., R. 19 W. (by George W. Moore in 1931)

(Continued from Versailles No. 3 quadrangle; see line 1.)

Banister, 1 mi. NW. of, 50 ft. E. of ford across Little Niangua River, in root on W. side of 15-in. ash tree; copper nail and washer

Banister, 1.4 mi. NW. of, 0.4 mi. W. of ford across Little Niangua River, NW. of crossroads, on S. bank of drain, in root on S. side of 32-in. oak tree; copper nail and washer

Banister, 2.3 mi. NW. of, S. of rd., in root on NW. side of triangular-blaed 21-in. oak tree; copper nail and washer


Reference mark, 35 ft. S. and 70 ft. W. from tablet, in root on N. side of 18-in. oak tree; copper nail and washer

Climax Springs, 4 mi. SE. of, 35 ft. N. and 80 ft. E. from rd. corner

Climax Springs, 3.6 mi. S. of, 90 ft. S. and 10 ft. E. from rd. corner, 8 ft. N. and 8 ft. W. from fence corner, in root on SW. side of triangular-blaed 25-in. oak tree; copper nail and washer

Vogel triangulation sta.; U.S.C. & G.S. standard disk designated "Vogel"

Reference mark 1; U.S.C. & G.S. standard reference disk

Reference mark 2; U.S.C. & G.S. standard reference disk

Climax Springs, 1.1 mi. S. of, 75 ft. S. and 20 ft. W. from T-rd. W., in root on NW. side of 15-in. oak tree; copper nail and washer

Climax Springs, 0.6 mi. S. of, 50 ft. N. of crossroads, E. of rd., in root on NE. side of 10-in. oak tree; copper nail and washer

Climax Springs, 6 ft. S. of SE. corner of school building, in concrete platform; standard tablet stamped "911 M 1931"

Reference mark 1, 285 ft. W. of tablet, on SW. corner of concrete platform; chiseled square

Reference mark 2, 64 ft. SE. of tablet, in root on SW. side of 16-in. oak tree; copper nail and washer

Climax Springs, 0.8 mi. SE. of, 17 ft. N. and 80 ft. E. from junction of rd. SE., in root on NE. side of 16-in. oak tree; copper nail and washer


Reference mark, 71 ft. NE. of tablet, in root on NW. side of triangular-blaed 25-in. oak tree; copper nail and washer

Climax Springs, 2.4 mi. E. of, 55 ft. N. of rd., in root on S. side of 23-in. oak tree; copper nail and washer

Climax Springs, 3.2 mi. E. of, 150 ft. E. of rd. junction, 35 ft. S. of rd., in root on N. side of twin oak tree; copper nail and washer

(Continued in Versailles No. 3 quadrangle; see line 2.)
PART 7, CENTRAL MISSOURI, 1896-1958

2. PROM CLIMAX SPRINGS NORTHWEST ALONG EDWARDS-CLIMAX SPRINGS ROAD TO EDWARDS, THENCE NORTHWEST INTO PRISTOE QUADRANGLE AT SEC. 5, T. 39 N., R. 21 W. (by C. E. Reick in 1952)

Climax Springs, 1 mi. NW. of, near center sec. 25, T. 39 N., R. 20 W., N. of rd.; in root of 30-in. oak tree; copper nail

Climax Springs, 1.5 mi. W. of, about 0.3 mi. N. of cor. sec. 23, 24, 25, and 26, at top of hill, 15 ft. N. of rd. forks, on land of A. U. Moore, in concrete post; standard tablet stamped "T T 203 B 1952"
Reference mark, 350 ft. W. of tablet, on small boulder; chiseled square

T. 39 N., R. 20 W., in SE 1/4 sec. 22, 10 ft. SW. of junction of rd. N., in root of 24-in. oak tree; copper nail


Reference mark, 250 ft. W. of tablet, in root of 12-in. oak tree; copper nail

T. 39 N., R. 20 W., in SE 1/4 sec. 10, 60 ft. SW. of junction of rd. SE., in root of 18-in. oak tree; copper nail

T. 39 N., R. 20 W., in SE 1/4 sec. 9, 15 ft. N. of rd. in front of dwelling, in root of 24-in. oak tree; copper nail

T. 39 N., R. 20 W., in NW 1/4 NE 1/4 sec. 17, 20 ft. S. of rd., at mail box of M. R. Ingalls, in root of 20-in. oak tree; copper nail

Deer Creek; surface of water Aug. 9, 1932


Reference mark, 100 ft. W. of tablet, in root of 20-in. oak tree; copper nail

Edwards, 130 ft. W. of crossroads, in root of 36-in. locust tree; copper nail

Edwards, 1.5 mi. NW. of, in NE 1/4 sec. 12, T. 39 N., R. 21 W., N. of rd., in root of 18-in. oak tree; copper nail

Edwards, 9 mi. NW. of, near center sec. 12, T. 39 N., R. 21 W., 20 ft. N. and 20 ft. W. from junction of rd. N., 2 ft. N. and 5 ft. W. from triangular-blazed oak tree, in concrete post; standard tablet stamped "T 205 B 1952"

Edwards, 3 mi. NW. of, in SW 1/4 sec. 3, T. 39 N., R. 21 W., at lane S., S. of rd., on boulder; chiseled square


Reference mark, 220 ft. W. of tablet, in root of 24-in. oak tree; copper nail

T. 39 N., R. 21 W., in S. part sec. 5, 0.9 mi. E. of Turkey Creek, S. of rd., in root of triangular-blazed oak tree; copper nail

(Continued in Pristoe quadrangle; see line 2.)

3. PROM PRISTOE QUADRANGLE AT SEC. 28, T. 140 N., R. 21 W., NORTHEAST INTO COLE CAMP QUADRANGLE AT SEC. 12, T. 140 N., R. 21 W. (by C. E. Reick in 1952)

T. 140 N., R. 21 W., in SE 1/4 sec. 27, NE. of junction of lane N., in root of 24-in. oak tree; copper nail

T. 140 N., R. 21 W., in S 1/2 sec. 26, 130 ft. NE. of crossroads, in root of 20-in. oak tree; copper nail


T. 140 N., R. 21 W., on line between secs. 14 and 23, 40 ft. SE. of rd. fork E., in root of 20-in. oak tree; copper nail

T. 140 N., R. 21 W., 0.3 mi. SE. of center sec. 14, 50 ft. NE. of rd. fork E., in root of 30-in. oak tree; copper nail

(Continued in Cole Camp quadrangle; see line 2.)

4. FROM COLE CAMP QUADRANGLE AT SEC. 7, T. 140 N., R. 20 W. EAST BY WAY OF DUROC INTO COLE CAMP QUADRANGLE AT SEC. 9, T. 140 N., R. 20 W. (by C. E. Reick in 1952)


Reference mark, 210 ft. W. of tablet, in root of 20-in. oak tree; spike

T. 140 N., R. 20 W., in SE 1/4 SW 1/4 sec. 9, on NE. bank of Lake of The Ozarks, about 400 ft. W. of ferry landing across lake from Duroc, 30 ft. above water level, in small projecting ledge on bluff; standard tablet stamped "T T 213 B 1952"

Reference mark, 120 ft. E. of tablet, on ledge; chiseled square

(Continued in Cole Camp quadrangle; see line 2.)
Spirit Leveling in Missouri

5. FROM VERSAILLES NO. 3 QUADRANGLE AT SEC. 15, T. 39 N., R. 19 W., NORTH TO LAKE OF THE OZARKS AT ELKINS HOLLOW (by G. P. Thompson in 1934)

(Continued from Versailles No. 3 quadrangle; see line 8.)


T. 39 N., R. 19 W., in NE 1/4 sec. 4, on side of ridge, about 350 ft. S. of dwelling of John Riddle, 27 ft. N. of rd., in root on SW.-N. side of 26-in. red-oak tree; copper nail and washer 924.93

T. 39 N., R. 19 W., in NE 1/4 sec. 4, about 0.6 mi. SW. of Pearson Branch School, 10 ft. N. and 15 ft. E. from rd. forks, in root on SW.-side of 22-in. red-oak tree; copper nail and washer 939.22

Lake of the Ozarks; surface of water at 7:30 a.m. July 11, 1934 667.54

Lake of the Ozarks; surface of water at 7:30 a.m. July 11, 1934 667.1

6. FROM CLIMAX SPRINGS, NORTH INTO COLE CAMP QUADRANGLE AT SEC. 7, T. 40 N., R. 19 W. (by G. P. Thompson in 1934)

Climax Springs, 0.4 mi. W. of, 54 ft. N. and 21 ft. W. from rd. corner, in base of 9-in. elm tree; nail and washer 879.37

Climax Springs, 1 mi. NW. of, on W. head wall of concrete culvert; chiseled square 818.86

Climax Springs, 1.7 mi. NW. of, 15 ft. E. of rd., in base of 10-in. oak tree; nail and washer 818.51

Climax Springs, 2 mi. N. of, 60 ft. N. of T-rd. W., 15 ft. E. of rd., on top of flint boulder; chiseled square 797.52

Climax Springs, 2.3 mi. N. of, on W. bank of Rainy Creek, 21 ft. N. of rd., in base of 15-in. ash tree; nail and washer 762.21


Climax Springs, 3.8 mi. N. of, 15 ft. W. of rd., in fence line, in 12-in. walnut tree; copper nail and washer 724.50

Climax Springs, 4.5 mi. N. of, 175 ft. N. of dwelling of J. I. Wampler, 12 ft. W. of rd., in fence line, in base of 30-in. oak tree; copper nail and washer 716.94

Climax Springs, 5.1 mi. N. of, 150 ft. W. of dwelling of S. H. Dorthy, 20 ft. S. of rd., in base of 12-in. oak tree; nail and washer 853.84

Climax Springs, 5.3 mi. N. of, 18 ft. S. of rd. corner W.-N. and on rd. SE., in 12-in. oak tree; nail and washer 908.46


Climax Springs, 6.3 mi. N. of, 18 ft. W. of rd., in base of 12-in. sycamore tree; nail and washer 682.61

Climax Springs, 7.4 mi. N. of, 150 ft. S. of dwelling of Roy Rice, 15 ft. N. of rd., in root on S. side of 10-in. oak tree; copper nail and washer 809.20

Climax Springs, 7.7 mi. N. of, 30 ft. W. of rd. corner S.-N., 72 ft. N. of dwelling, in root of 10-in. white-oak tree; copper nail and washer 865.27

Climax Springs, 8.5 mi. N. of, at SE. corner of Cable Ridge Cemetery, 18 ft. N. of rd., in 18-in. persimmon tree; copper nail and washer 922.51


Reference mark, 69 ft. NE. of tablet, in root of 30-in. oak tree; copper nail and washer 938.81

Climax Springs, 9.7 mi. N. of, 15 ft. E. of rd., 6 ft. S. of fence, in root of 10-in. oak tree; copper nail and washer 927.05

Climax Springs, 10.5 mi. N. of, 55 ft. W. of rd., at gate in fence line, in root of 18-in. hickory tree; copper nail and washer 887.96


Reference mark, 60 ft. E. of tablet, in root on W. side of 20-in. black-oak tree; copper nail and washer 882.91

Sagrador, 0.8 mi. NE. of store, 30 ft. S. of Lock Creek, 25 ft. E. of rd., in base of 10-in. sycamore tree; copper nail and washer 760.95

Sagrador, 1.6 mi. NW. of store, 15 ft. S. of rd., 33 ft. W. of fence, in root of 8-in. elm tree; copper nail and washer 713.147

Sagrador, 2.4 mi. NW. of store, on top of hill, near rd. forks, 35 ft. SW. of rd., in root of 28-in. oak tree; copper nail and washer, 904.98
Sagredo, 2.7 mi. NW. of, quarter cor. between secs. 7 and 18, T. 40 N., R. 19 W., 7 ft. S. and 7 ft. W. from store, 170 ft. SW. of SE. corne
T. 40 N., R. 19 W., 15 ft. E. of rd., 2 ft. E. of fence line, in root on W. side of 8-in. post-oak tree used as fence corner, in concrete post; standard tablet stamped "T 795 C W A 1931"
Reference mark, 50 ft. N. of tablet, in fence line, in root on W. side of 5-in. post-oak tree; copper nail and washer

(Continued in Cole Camp quadrangle; see line 3.)

7. FROM SEC. 33, T. 40 N., R. 19 W., NORTHWEST BY WAY OF LIVELY AND
HASTAIN INTO FRISTOE QUADRANGLE AT SEC. 16, T. 40 N., R. 21 W. (by C. P. Thompson in 1931)

T. 40 N., R. 20 W., in SE 1/4, NE 1/4 sec. 36, 72 ft. E. of dwelling of W. R. Duncan, 72 ft. S. of rd., in root on W. side of 28-in. post-oak tree; copper nail and washer
T. 40 N., R. 20 W., in SW 1/4 SE 1/4 sec. 26, 72 ft. E. of T-rd. S., 21 ft. N. of rd., in fence line, in root on N. side of 10-in. post-oak tree; copper nail and washer
Reference mark, 40 ft. S. and 225 ft. W. from tablet, 16 ft. N. of rd., at gate in fence line, in root on W. side of 10-in. elm tree; copper nail and washer
Lively, 1 mi. W. of, in N 1/2 sec. 27, T. 40 N., R. 20 W., on side of high, cleared hill, 21 ft. N. of rd., at gatepost, in root on N. side of 16-in. burr-oak tree; copper nail and washer
Lively, 1 9 mi. W. of, in SW 1/4 NE 1/4 sec. 28, T. 40 N., R. 20 W., on top of hill, well of concrete bridge; chiseled square
Walnut Grove School, 0.6 mi. E. of, on line between secs. 28 and 29, T. 40 N., R. 20 W., 20 ft. S. of rd., 5 ft. W. of fence corner, in root on S. side of 16-in. post-oak tree; copper nail and washer
Hastain, 0.9 mi. W. of, 0.2 mi. S. of center sec. 26, T. 40 N., R. 20 W., 48 ft. S. and 36 ft. E. from SE. corner of Walnut Grove School, 16 ft. W. of rd., in concrete post; standard tablet stamped "T 755 C W A 1932"
Reference mark, 24 ft. S. and 6 ft. W. from tablet, in root on N. side of 6-in. black-oak tree; copper nail and washer
Hastain, 192 ft. E. of T-rd. W., 110 ft. W. of farmhouse, on W. end of N. head wall of concrete culvert; chiseled square
Hastain, 1.1 mi. W. of, in NE 1/4 NE 1/4 sec. 36, T. 40 N., R. 21 W., 370 ft. E. of dwelling of E. D. Place, 28 ft. W. of rd.; in fence line, in root on N. side of 20-in. oak tree; copper nail and washer
Hastain, 2.2 mi. W. of, in SE 1/4 SE 1/4 sec. 26, T. 40 N., R. 21 W., on top of hill, 20 ft. S. of rd., in root on N. side of 26-in. post-oak tree; copper nail and washer
Hastain, 2.7 mi. W. of, 410 ft. N. of quarter cor. between secs. 26 and 27, T. 40 N., R. 21 W., 37 ft. E. of crossroads, in concrete post; standard tablet stamped "T 752 C W A 1931"
Reference mark, 65 ft. N. and 20 ft. E. from tablet, in root on NW. side of 6-in. post-oak tree; copper nail and washer
Reference mark, 36 ft. W. of tablet, on SE. corner of concrete porch of school; chiseled square
T. 40 N., R. 21 W., in NE 1/4 SE 1/4 sec. 15, 150 ft. W. of old Duroe-Woosung rd., at gate in fence line, in root on W. side of 16-in. elm tree; copper nail and washer
T. 40 N., R. 21 W., in NE 1/4 SE 1/4 sec. 16, 10 ft. N. of old Duroe-Woosung rd., at small bridge in SW. side of 18-in. chinquapin tree; copper nail and washer

(Continued in Fristoe quadrangle; see line 4.)

8. FROM MACKS CREEK QUADRANGLE AT SEC. 10, T. 37 N., R. 19 W., WEST ALONG HICKORY GROVE ROAD TO SEC. 7, T. 37 N., R. 19 W., THENCE NORTH TO TURNERS FORD, THENCE WEST ALONG JORDAN ROAD TO CROSS TIMERS, INCLUDING THAT PART OF THE LINE IN URBANA QUADRANGLE (by C. P. Thompson in 1931)*

Macks Creek, 3.6 mi. W. of, near quarter cor. between secs. 9 and 10, T. 37 N., R. 19 W., 15 ft. E. of rd., in fence line, in root on S. side of 11-in. walnut tree; copper nail and washer
Macks Creek, 1 mi. W. of, E. sixteenth cor. sec. 9, T. 37 N., R. 19 W., 15 ft. E. of rd., in fence line, in root on S. side of 11-in. walnut tree; copper nail and washer
Macks Creek, 5 mi. W. of, near quarter cor. between secs. 8 and 9, T. 37 N., R. 19 W., 70 ft. W. of SW. corner of school, in root on NW. side of 20-in. white-oak tree; copper nail and washer
Reference mark, 90 ft. NE. of tablet, in root on W. side of 22-in. white-oak tree; copper nail and washer

*Line 5 of Urbana quadrangle includes a portion of this line (see Bull. 896-E, pp. 732-733).
Macks Creek, 7.6 ml. W. of, in SW 1/4 sec. 6, T. 37 N., R. 19 W., 10 ft. N. of rd. NE., 15 ft. E. of rd. NW., in root E. side of 12-in. white-oak tree; copper nail and washer

Macks Creek, 7.6 ml. W. of, in SW 1/4 sec. 6, T. 37 N., R. 19 W., 21 ft. E. of crossroads, in root on south side of 15-ft. hickory tree; copper nail and washer

Macks Creek, 8.4 ml. W. of, in 10 ft. N. and 10 ft. E. from W. sixteenth cor. on S. line sec. 32, T. 38 N., R. 20 W., 10 ft. N. of rd. E., in root on side of 12-in. oak tree; copper nail and washer

Macks Creek, 8.4 ml. W. of, about 750 ft. S. of quarter cor. between secs. 31 and 32, T. 38 N., R. 19 W., 2.5 ml. SE. of Turners ford, on Camden-Hickory county line, 12 ft. S. of rd., near 3 mail boxes, in root on N. side of 24-in. white-oak tree; copper nail and washer

Macks Creek, 9.7 ml. W. of, near W. sixteenth cor. sec. 36, T. 38 N., R. 20 W., 16.8 ml. SE. of Turners ford; 10 ft. NE. of crossroads, on limestone ledge; chiseled square


Reference mark, 25 ft. NE. of tablet, in root on W. side of 6-in. white-oak tree; copper nail and washer

Cross Timbers, 9.6 ml. E. of, in LW 1/4 sec. 27, T. 38 N., R. 20 W., 0.6 ml. SE. of Turners ford, at top of hill, on land owned by R. Phillips, 15 ft. W. of rd. SWW., in root on N. side of 24-in. white-oak tree; copper nail and washer


Reference mark, 35 ft. W. of tablet, in fence line, in trunk of 10-in. sycamore tree; copper nail and washer


Cross Timbers, 6.9 ml. E. of, in LW 1/4 sec. 27, T. 38 N., R. 20 W., 30 ft. E. of rd. junction, 12 ft. S. of rd., in root on N. side of 24-in. black-oak tree; copper nail and washer


Reference mark, 6 ft. SE. of tablet, in root on S. side of 12-in. oak tree; copper nail and washer

Cross Timbers, 5.4 ml. E. of, in NW 1/4 sec. 26, T. 38 N., R. 20 W., on land owned by John Olson, 15 ft. SE. of junction of rd. N., 15 ft. S. of rd., in hollow, in root on N. side of twin 8-in. elm trees; copper nail and washer


Cross Timbers, about 5.1 ml. E. of, 0.2 ml. NW. of Jordan, in SE 1/4 sec. 20, T. 38 N., R. 20 W., 56 ft. NW. of NW. corner of Jordan School, 36 ft. NW. of rd., at spring, in natural limestone boulder; standard tablet stamped "16 J 1934"

Reference mark, 80 ft. SW. of tablet, at fence corner, in root on S. side of 10-in. oak tree; copper nail and washer


Cross Timbers, 7.5 ml. E. of, about 1,000 ft. N. of quarter cor. between secs. 19 and 30, T. 38 N., R. 20 W., 350 ft. E. of dwelling of Louis Miller, 15 ft. S. of rd., in root on S. side of 22-in. red-oak tree; copper nail and washer

Cross Timbers, 3 ml. E. of, about 1,000 ft. N. of SW. cor. sec. 19, T. 38 N., R. 20 W., 20 ft. N. of rd., in root on S. side of 10-in. post-oak tree; copper nail and washer

Cross Timbers, 1.8 ml. E. of, near S. sixteenth cor. between secs. 25 and 24, T. 38 N., R. 21 W., 20 ft. N. of rd., 22 ft. E. of hedge fence, 3 ft. W. of fence, in concrete post; standard tablet stamped "17 J 1934"

Cross Timbers, 1.8 ml. E. of, S. sixteenth cor. between secs. 22 and 23, T. 38 N., R. 21 W., 20 ft. N. of crossroads, 10 ft. E. of N.-S. rd., on head wall of concrete culvert; chiseled square

Cross Timbers, 30 ft. E. of street, 12 ft. W. of NW. corner of Methodist Church, on concrete porch; chiseled square

Cross Timbers, in front of school gymnasium, 70 ft. S. and 170 ft. E. from street intersection, 15 ft. S. of small barn, in 36-in. silver-maple tree; nail and washer

U.S.C. & G.S. standard disk stamped "J 15 1934"

Cross Timbers, 90 ml. S. of, in NW 1/4 sec. 27, T. 38 N., R. 21 W., between old and new U.S. Highway 65, on side of small ravine, in 10-in. cedar tree; nail

For an additional level line along U.S. Highway 65, refer to United States Coast and Geodetic Survey second-order line, Lynn Creek to Brownington.
1. FROM LINCOLN QUADRANGLE AT SEC. 9, T. 41 N., R. 21 W., EAST THROUGH BOYLERS MILL INTO GRAVOIS MILLS QUADRANGLE AT SEC. 27, T. 42 N., R. 19 W. (by C. E. Reiok in 1932)

(Continued from Lincoln quadrangle; see line 1.)

T. 41 N., R. 21 W., in SW 1/4 SW 1/4 sec. 10, 22 ft. S. and 35 ft. W. from T-rd. N., 0.2 mi. W. of Cole Camp Creek, in concrete post; standard tablet stamped "T T 221 B 1932" Bridge over Cole Camp Creek; surface of floor

T. 41 N., R. 21 W., in SE 1/4 sec. 10, 50 ft. S. of crossroads, in root of 20-in. oak tree; copper nail

T. 41 N., R. 21 W., near center sec. 11, 40 ft. E. of Lutjen School, 30 ft. N. of rd., on well curb; chiseled square

T. 41 N., R. 21 W., in NE 1/4 NW 1/4 sec. 12, 1.5 mi. SW. of Mount Hulda, 30 ft. SE. of rd. fork S., in root of 18-in. oak tree; spike


T. 41 N., R. 20 W., in SW 1/4 NE 1/4 sec. 16, 30 ft. SW. of junction of trail SE., in root of 30-in. oak tree; copper nail

Ross School, 0.2 mi. SW. of, in SW 1/4 sec. 6. T. 41 N., R. 20 W., N. of rd., in root of 18-in. oak tree; spike


T. 41 N., R. 20 W., on line between secs. 3 and 4, 50 ft. NE. of rd. fork N., in root of 10-in. oak tree; copper nail


T. 41 N., R. 20 W., in SW 1/4 sec. 5, 1.5 mi. NW. of Boylers Mill, 30 ft. NW. of rd. fork NW., in root of 24-in. oak tree; copper nail

T. 41 N., R. 20 W., in NW 1/4 sec. 1, 1 mi. NW. of Boylers Mill, N. of rd., in root of 30-in. hickory tree; copper nail


T. 41 N., R. 19 W., in NW 1/4 NW 1/4 sec. 5, 1.5 mi. NW. of Boylers Mill, S. of rd., in root of 30-in. sycamore tree; copper nail

T. 41 N., R. 19 W., in SW 1/4 NW 1/4 sec. 3, 33 ft. S. of rd. at junction of lane to farmhouse of Charles B. Rapp, in concrete post; standard tablet stamped "T T 226 B 1932" Reference mark, 769 ft. NE. of tablet, in root of 20-in. oak tree; copper nail

Center of bridge

T. 41 N., R. 19 W., near center sec. 27, in triangle at rd. forks, in root of 20-in. oak tree; copper nail

(Continued in Gravois Mills quadrangle; see line 2.)
2. FROM CROSS TIMBERS QUADRANGLE AT SEC. 12, T. 40 N., R. 21 W.,
EAST AND NORTH TO SEC. 7, T. 41 N., R. 20 W. (by C. E. Reick
in 1952)
(Continued from Cross Timbers quadrangle; see line 3.)

T. 40 N., R. 21 W., in SW 1/4 sec. 12, about 4 mi. W. of Durco,
15 ft. N. of lane E. to dwelling of F. F. Allen, 25 ft. E. of rd.,
in concrete post; standard tablet stamped "T T 411 B 1952"
Reference mark, 90 ft. NW. of tablet, in root of 24-in. oak tree; copper
nail
Lake of the Ozarks; surface of water at 12 noon Aug. 16, 1932
383.196
582.94
556.5

(For balance in Cross Timbers quadrangle, see line 4.)

T. 40 N., R. 20 W., in NE 1/4 sec. 9, 70 ft. SW. of rd. forks, in root
of 18-in. oak tree; copper nail

T. 41 N., R. 20 W., in NE 1/4 sec. 3, E. of rd., in root of 24-in. oak
tree; copper nail

T. 41 N., R. 20 W., in NW 1/4 sec. 4, 15 ft. S. of dwelling of C. M. Edmonds, 20 ft. E. of rd.,
in concrete post; standard tablet stamped "T T 396 C W A 1932"
Reference mark, 95 ft. N. 70° E. of tablet, in root of 20-in. black-oak
tree; copper nail and washer

T. 41 N., R. 20 W., in NE 1/4 sec. 5, near ferry landing, 60 ft. S. of
shore line of lake, 16 ft. S. of rd., in root of 20-in. red-oak tree;
copper nail and washer

T. 41 N., R. 20 W., in SE 1/4 sec. 31, near ferry landing, 60 ft. N. of
shore line of lake, 50 ft. S. of rd., in root of lone 16-in. walnut
tree; copper nail and washer

T. 41 N., R. 19 W., in SW 1/4 sec. 29, 106 ft. NE. of Riverview School,
30 ft. W. of rd., in root of 18-in. white-oak tree; copper nail and washer

T. 41 N., R. 19 W., near line between secs. 20 and 29, 106 ft. S. of
SE. corner of Minnow Branch School, 78 ft. N. of rd., in root of 18-in. white-oak tree; copper nail and washer

T. 41 N., R. 19 W., in SW 1/4 sec. 17, 150 ft. N. of Minnow Branch School, 36 ft.
and 20 ft. E. of from crossings, in root of 20-in. white-oak tree; copper
nail and washer

T. 41 N., R. 19 W., in SW 1/4 sec. 17, 150 ft. N. of Minnow Branch School, 36 ft.
and 20 ft. E. of from crossings, in root of 20-in. white-oak tree; copper
nail and washer

3. FROM CROSS TIMBERS QUADRANGLE AT SEC. 7, T. 40 N., R. 19 W.,
NORTH TO SEC. 7, T. 41 N., R. 19 W. (by C. F. Thompson in
1934)
(Continued from Cross Timbers quadrangle; see line 6.)

Big Bend Acres Store, 1.2 mi. S. of, near E. sixteenth cor. sec. 7,
copper nail and washer

Big Bend Acres Store, 0.6 mi. S. of, 18 ft. N. of line between sees. 6
and 7, T. 40 N., R. 19 W., in Thompson's Happy Hill Subdivision, 45 ft.
W. of rd., in root of 20-in. red-oak tree; copper nail and washer

T. 40 N., R. 19 W., in NE 1/4 NW 1/4 sec. 6, about 0.8 mi. SW. of
landing of Sagrada Ferry, at top of hill, 220 ft. NE. of Bush and
Knickrbocker store in Big Bend Acres, 19 ft. SE. of rd., 35 ft. NW.
of corner of dwelling of A. M. Edmonds, in concrete post; standard
tablet stamped "T T 396 C W A 1932"
Reference mark, 55 ft. N. 70° E. of tablet, in root of 20-in. black-oak
tree; copper nail and washer

T. 41 N., R. 19 W., in NW 1/4 sec. 29, 106 ft. NE. of Riverview School,
30 ft. W. of rd., in root of 20-in. white-oak tree; copper nail and washer

T. 41 N., R. 19 W., in SE 1/4 sec. 31, near ferry landing, 60 ft. N. of
shore line of lake, 50 ft. S. of rd., in root of lone 16-in. walnut
tree; copper nail and washer

T. 41 N., R. 19 W., in SW 1/4 sec. 29, 106 ft. NE. of Riverview School,
30 ft. W. of rd., in root of 20-in. white-oak tree; copper nail and washer

T. 41 N., R. 19 W., near line between secs. 20 and 29, 36 ft. S. (T)
of sec. line, 20 ft. W. of rd., in root of 12-in. red-oak tree; copper
nail and washer

elm tree; copper nail and washer

T. 41 N., R. 19 W., in NW 1/4 NW 1/4 sec. 22, about 0.8 mi. NW. of N.
landing of Sagrada Ferry, 225 ft. E. of dwelling of George R. Bates,
22 ft. E. of rd., 60 ft. N. of fence, in concrete post; standard tablet
stamped "T T 397 C W A 1934"
Reference mark, 35 ft. N. of tablet, in root on W. side of twin 8-in.
white-oak tree; copper nail and washer

white-oak tree; copper nail and washer

T. 41 N., R. 19 W., in SW 1/4 sec. 15, 150 ft. S. of Minnow School, 50 ft.
and 20 ft. E. of from crossings, in root of 20-in. white-oak tree;
copper nail and washer

T. 41 N., R. 19 W., in SW 1/4 sec. 17, 150 ft. S. of Minnow Branch School, 50 ft.
and 20 ft. E. of from crossings, in root of 20-in. white-oak tree;
copper nail and washer

T. 41 N., R. 19 W., in NW 1/4 NW 1/4 sec. 17, about 0.3 mi. SW. of Minnow
Branch School, at top of high hill, on land of Lee Braden, 20 ft. W. of rd.,
in concrete post; standard tablet stamped "T T 398 C W A 1934"
Reference mark, 25 ft. NW. of tablet, in fence line, in root on W. side of
12-in. walnut tree; copper nail and washer

T. 41 N., R. 19 W., in SW 1/4 sec. 8, 10 ft. S. and 36 ft. E. from SH.
corner of Minnow Branch School, 78 ft. N. of rd., in root of 22-in.
white-oak tree; copper nail and washer

900 SPIRIT LEVELING IN MISSOURI
PART 7, CENTRAL MISSOURI, 1896-1938

4.


(Continued from Gravos Mills quadrangle; see line 3.)


Reference mark, 10 ft. S. and 51 ft. E. from tablet, in root on SW. side of 8-in. white-oak tree; copper nail and washer 967.38

T. 14 N., R. 19 W., near center of NW 1/4 sec. 34, 1 mi. W. of Little Buffalo Store, 36 ft. S. and 12 ft. E. from rd. corner E.-S., in NW. corner of barnlot of Athel Taylor, in root on N. side of 22-in. walnut tree; copper nail and washer 967.20

T. 14 N., R. 19 W., quarter cor. between secs. 26 and 33, 22 ft. W. of N.-S. rd., 10 ft. S. and 10 ft. E. from fence corner, in fence line, 18 ft. S. and 22 ft. E. of NW.-SW. black-oak tree; copper nail and washer 967.05

5.


(Continued from Smithton quadrangle; see line 1.)

Schnackenburg triangulation sta.; U.S.C. & G.S. standard disk stamped "Schnackenburg 1892" 1,088.106

Reference mark 2; U.S.C. & G.S. standard reference disk 1,082.925

T. 14.5 N., R. 21 W., near E. sixteenth cor. sec. 11, 17 ft. S. and 20 ft. E. from Missouri Pacific R.R. at rd. crossing, in concrete post; standard tablet stamped "1553 C W A 1931" 1,070.990

Reference mark, 32 ft. N. and 255 ft. W. from tablet, 9 ft. N. and 180 ft. E. from T-rd., on E. end of N. head wall of concrete culvert; chiseled square 1,066.20

T. 14.5 N., R. 21 W., near quarter cor. between secs. 14 and 15, 12 ft. S. and 18 ft. W. from rd. corner, in concrete culvert; chiseled square 1,055.04

T. 14.5 N., R. 21 W., 9 ft. N. and 16 ft. E. from E. sixteenth cor. sec. 16, 0.4 mi. E. of St. John's Lutheran Church, on E. end of N. head wall of concrete culvert; chiseled square 1,022.90

(Continued in Lincoln quadrangle; see line 3.)

6.


T. 14 W., R. 20 W., quarter cor. between secs. 33 and 34, 18 ft. E. of N.-S. rd., at gatepost, in root on W. side of 18-in. post-oak tree; copper nail and washer 996.64

T. 14 W., R. 20 W., quarter cor. between secs. 28 and 33, 35 ft. W. of rd. corner, 12 ft. W. of fence, in field, in concrete post; standard tablet stamped "T 566 C W A 1931" 972.09

Reference mark, 9 ft. S. and 9 ft. W. from tablet, in root on NW. side of 10-in. post-oak tree; copper nail and washer 972.59

T. 14 W., R. 20 W., 230 ft. S. and 10 ft. E. from approximate quarter cor. between secs. 21 and 28, on center of E. head wall of concrete culvert; chiseled square 956.58

T. 14.2 W., R. 20 W., W. sixteenth cor. between secs. 16 and 21, 36 ft. S. and 21 ft. E. from T-rd. W., in fence corner, in root on NW. side of 10-in. black-oak tree; copper nail and washer 1,026.18

T. 14 W., R. 20 W., quarter cor. between secs. 17 and 20, 30 ft. N. and 50 ft. E. from rd. forks, 30 ft. S. of school, in concrete post; standard tablet stamped "T 566 C W A 1931" 1,027.89

Reference mark, 3 ft. N. and 10 ft. E. from tablet, in root on S. side of 24-in. oak tree; copper nail and washer 1,027.07

Cole Camp, 35 ft. S. and 2 mi. E. from, near quarter cor. between secs. 19 and 20, T. 14 W., R. 20 W., 59 ft. N. and 13 ft. E. from rd. forks, at mail box of C. C. Waters, in root on W. side of 16-in. black-oak tree; copper nail and washer 1,061.10


Reference mark, 8 ft. W. of tablet, in root on E. side of 8-in. post-oak tree; copper nail and washer 937.31

T. 14 W., R. 21 W., near center of NE 1/4 sec. 35, on land owned by E. J. Kreiseg, 40 ft. N. and 55 ft. E. from T-rd. SE., in root on S. side of 18-in. white-oak tree; copper nail and washer 931.54

T. 14 W., R. 21 W., in SW. cor. sec. 25, about 0.2 mi. SE. of farmhouse of Herman Schumaker, 12 ft. S. of NW.-SE. rd., in root on N. side of 30-in. elm tree; copper nail and washer 799.07

T. 14 W., R. 21 W., near center of SE 1/4 sec. 27, 21 ft. W. of rd. corner NE.-SE. and private rd. NW.-SW., on SE. corner of N. head wall of concrete bridge; chiseled square 766.02
(Continued in Lincoln quadrangle; see line 5.)

7. FROM SEC. 14, T. 43 N., R. 21 W., SOUTH TO SEC. 25, T. 42 N., R. 21 W. (by Cornish Beck in 1934)

Cole Camp, 2 mi. N. of, quarter cor. between secs. 23 and 24, T. 43 N., R. 21 W., about 135 ft. N. and 25 ft. W. from rd. cor., at driveway to farm house, on west side of old head wall of culvert; chiseled square

1,064.74

Cole Camp, 0.7 mi. N. of, T. 43 N., R. 21 W., about 60 ft. S. of rd. cor., at driveway to farm house, on east side of old head wall of culvert; chiseled square

1,077.48

(Continued in Lincoln quadrangle; see line 11.)

Edmonson, about 0.7 mi. W. of, along Edmonson-Warsaw rd., in NE 1/4 NW 1/4 sec. 27, T. 43 N., R. 21 W., 20 ft. S. of S. bank of Cole Camp Creek, 12 ft. S. of rd., 5 ft. SE. of fence corner, in concrete post; standard tablet stamped "T T 1265 ERA 1935" 700.85

Edmonson, in SE 1/4 sec. 22, T. 43 N., R. 21 W., 120 ft. N. of roadways, 18 ft. W. of N. corner of store, on center of E. head wall of concrete culvert; chiseled square

762.26

Edmonson, 0.8 mi. SE. of, near N. sixteenth cor. sec. 26, T. 43 N., R. 21 W., 25 ft. N. of S. rd. in, on root on S. side of 12-in. oak tree; copper nail and washer

761.04

Edmonson, 1.2 mi. SE. of, near E. sixteenth cor. sec. 26, T. 43 N., R. 21 W., 10 ft. S. of rd. forks, in root on N. side of 12-in. oak tree; copper nail and washer

906.26

Edmonson, 2 mi. SE. of, near N. sixteenth cor. sec. 26, T. 43 N., R. 21 W., 10 ft. S. of rd. forks, in root on N. side of 12-in. oak tree; copper nail and washer

764.54

Edmonson, 1.6 mi. S. of, in SE 1/4 NW 1/4 sec. 23, T. 43 N., R. 21 W., 25 ft. S. of S. rd., on W. side of 12-in. post-oak tree; copper nail and washer

818.99

Edmonson, in NW 1/4 SE 1/4 sec. 36, at top of hill, 20 ft. S. of rd., 11 ft. NW. of triangular-blazed 10-in. post-oak tree, in concrete post; standard tablet stamped "T T 1265 ERA 1935" 912.79

T. 43 N., R. 21 W., in NW 1/4 SW 1/4 sec. 31, 21 ft. W. of S. rd. forks, in root on S. side of 24-in. oak tree; copper nail and washer

915.02

T. 43 N., R. 21 W., in NW 1/4 NE 1/4 sec. 6, 75 ft. S. of rd. forks, in root on E. side of 24-in. oak tree; copper nail and washer

893.20


T. 43 N., R. 20 W., in NW 1/4 SE 1/4 sec. 33, 100 ft. S. of entrance to sawmill, 20 ft. E. of rd., in root on S. side of 12-in. oak tree; copper nail and washer

818.99

Edmonson-Warsaw rd., in SE 1/4 NW 1/4 sec. 26, 15 ft. W. of rd., in root on S. side of triangular-blazed 24-in. oak tree; copper nail and washer

945.09

Edmonson, about 0.3 mi. S. of, in SE 1/4 NW 1/4 sec. 25, T. 43 N., R. 21 W., 75 ft. SE. of S. rd. to dwelling of Alonzo Downs, 25 ft. E. of rd., in root on W. side of twin 12-in. white-oak tree; copper nail and washer

957.57


(Continued in Lincoln quadrangle; see line 11.)

T. 41 N., R. 20 W., in NE 1/4 SW 1/4 sec. 26, 0.2 mi. SW. of dwelling of Moritz Schumaker, 18 ft. W. of private rd. cut, at reference mark, 300 ft. N. and 60 ft. W. from tablet, in root on SW. side of 30-in. elm tree; copper nail and washer

745.90

Reference mark, 300 ft. N. and 60 ft. W. from tablet, in root on SW. side of 30-in. elm tree; copper nail and washer

979.85
T. 41 N., R. 20 W., in SB 1/4 SE 1/4 sec. 24, at Benton-Morgan county line, 300 ft. E. of crossing of small creek, 15 ft. N. of rd., in root on S. side of 24-in. oak tree; copper nail and washer

T. 41 N., R. 19 W., in SW 1/4 NE 1/4 sec. 19, 50 ft. S. of rd. on N. bank of Minnow Branch, 250 ft. W. of dwelling of J. M. James, in root on N. side of 24-in. box-elder tree; copper nail and washer

For additional level lines along Chicago, Rock Island & Pacific Ry. and Missouri Pacific R.R., refer to United States Coast and Geodetic Survey second-order lines, Versailles to Windsor and Warsaw to May.

SMITHTON QUADRANGLE

(Latitude 38°30' -38°45'; longitude 93°00' -93°15')

Benton, Cooper, Morgan, and Pettis Counties

1. FROM SEDALIA SOUTH INTO COLE CAMP QUADRANGLE AT SEC. 13, T. 43 N., R. 21 W. (by C. P. Thompson in 1934)


Reference mark, 84 ft. S. of tablet, on top of rim of manhole; chiseled cross


Sedalia, about 2 mi. E., thence 0.6 mi. S. from, about 370 ft. N. of center of NE 1/4 sec. 11, T. 45 N., R. 21 W., about 0.6 mi. S. of U.S. Highway 50, on W. side of Marshall Avenue, on N. end of head wall of culvert; chiseled square

Sedalia, about 2 mi. E., thence 1.4 mi. S. from, about 370 ft. N. of center of NE 1/4 sec. 14, T. 45 N., R. 21 W., 15 ft. E. of Marshall Avenue rd., on S. end of head wall of concrete culvert; chiseled square


Reference mark, 9 ft. SW. of tablet, in fence line, in root on W. side of 10-in. hedge tree; copper nail and washer


T. 45 N., R. 21 W., S. sixteenth cor. between secs. 23 and 24, 500 ft. E. of crossroads, on W. side of S. head wall of culvert; chiseled square

T. 45 N., R. 21 W., S. sixteenth cor. sec. 24, about 500 ft. E. of T-rd. N., at Abel Bridge over Flat Creek, at NW. corner of NW. pier, on top of westermost rivet on bracket plate; chiseled cross

T. 45 N., Rs. 20 and 21 W., cor. secs. 19, 24, 25, and 30, 406 ft. N. and 43 ft. Sedelott Survey standard tablet stamped "1545 C W A 1934"; 799.974

Reference mark, 25 ft. S. and 69 ft. W. from tablet, in concrete porch; chiseled cross

T. 145 N., R. 21 W., near E. sixteenth cor. sec. 36, 10 ft. W. of rd., on center of head wall of concrete culvert; chiseled square 850.90
Reference mark, 1/2 ft. S. and 50 ft. E. from tablet, in root on W. side of winding rd., In fence corner, in root of lead-headed nail and windlass 895.26
Reference mark, 33 ft. S. and 27 ft. E. from tablet, SE. of T-rd. S., on E. end of wing wall of concrete culvert; chiseled square 887.39
T. 144 N., R. 21 W., about 650 ft. N. of E. sixteenth cor. between secs. 1 and 12, on N. end of E. head wall of concrete culvert; chiseled square 895.67
Reference mark, 1/2 ft. S. and 15 ft. E. from tablet, 6 ft. S. of fence corner, on sandstone boulder; chiseled mark 976.45
Reference mark, 47 ft. N. and 41 ft. E. from tablet, in root on SW. side of 10-in. hedge tree; copper nail and washer 985.78
T. 143 N., R. 21 W., approximate W. quarter cor. sec. 18, 1/2 ft. N. and 5 ft. E. from, on N. end of E. head wall of concrete culvert; chiseled square 994.15
T. 143 N., R. 20 W., approximate W. quarter cor. sec. 19, 260 ft. S. and 18 ft. E. from, 150 ft. NE. of NE. corner of dwelling of John A. Stunner, in root on S. side of 10-in. box-elder tree; copper nail and washer 997.97
Reference mark, 96 ft. S. and 27 ft. E. from tablet, on N. end of head wall of concrete culvert; chiseled square 992.64
T. 143 N., R. 21 W., approximate E. cor. secs. 25 and 36, 10 ft. N. and 10 ft. W. from, on N. end of W. head wall of concrete culvert; chiseled square 979.35
Tps. 143 and 144 N., Rs. 20 and 21 W., cor. of, 18 ft. N. and 10 ft. W. from, on Benton-Pettis county line, on head wall of concrete culvert; chiseled square 977.17
Reference mark, 28 ft. S. and 42 ft. E. from tablet, on W. end of N. head wall of concrete culvert under driveway; chiseled square 1,020.17
T. 145 N., R. 20 W., NW. cor. sec. 18, about 450 ft. S. and 9 ft. E. from, 15 ft. S. and 9 ft. E. from junction of private rd. W., on S. end of E. head wall of concrete culvert; chiseled square 1,041.10
T. 145 N., R. 20 W., quarter cor. between secs. 7 and 18, 10 ft. N. and 45 ft. E. from, rd. corner S.-E., on N. head wall of concrete culvert; chiseled square 998.99

(Continued in Cole Camp quadrangle; see line 5.)

2. FROM COLE CAMP QUADRANGLE AT SEC. 10, T. 145 N., R. 19 W., WENT TO SEC. 7, T. 43 N., R. 20 W. (by C. F. Thompson in 1934)

(Continued from Gravois Mills quadrangle; see line 9.)

T. 43 N., R. 19 W., near center of SE 1/4 sec. 10, at old site of Pyrmont, 45 ft. N. of rd., in pasture of Will Gardner, in root on S. side of 36-in. red-oak tree; copper nail and washer 977.20
T. 43 N., R. 19 W., near center of SE 1/4 sec. 9, on top of hill, 125 ft. S. of SW. corner of Lutheran Church, 18 ft. S. of winding E.-W. rd., in root on N. side of 18-in. oak tree; copper nail and washer 975.76
T. 43 N., R. 19 W., W. sixteenth cor. sec. 4 and 9, about 280 ft. S. and 165 ft. E. from, 30 ft. N. and 36 ft. W. from State Highway 135 at rd. E., in root on E. side of 10-in. white-oak tree; copper nail and washer 1,031.16
T. 43 N., R. 19 W., about 500 ft. S. of quarter cor. between secs. 5 and 8, 80 ft. W. of rd. forks, 12 ft. N. of rd. NW., in root on S. side of 10-in. white-oak tree; copper nail and washer 1,023.08
T. 43 N., R. 19 W., quarter cor. between secs. 7 and 8, about 65 ft. N. and 75 ft. E. from, 20 ft. S. of rd. SW., in triangle formed by junction of private rd., in root on NW. side of 26-in. post-oak tree; copper nail and washer 988.68
T. 15 N., R. 20 W., near S. sixteenth cor. between secs. 11 and 12, on side of ridge, 20 ft. N. of E.-W. rd. at curve, on wooded land, in root on S. side of 10-ln. white-oak tree; copper nail and washer

T. 15 N., R. 20 W., near center of SW 1/4 sec. 10, 21 ft. N. of E.-W. fence, on SE. corner of cemetery, on center of E. head wall of concrete culvert; chiseled square


Reference mark, 50 ft. S. and 60 ft. W. from tablet, in root on N. side of 10-ln. white-oak tree; copper nail and washer

T. 15 N., R. 20 W., near center of NW 1/4 sec. 9, 110 ft. N. and 108 ft. W. from crossroads, on SE. corner of bottom step to Lutheran Church; chiseled square

T. 15 N., R. 20 W., near center of NW 1/4 sec. 9, on NW. wing wall of concrete bridge over Lake Creek; chiseled square

T. 15 N., R. 20 W., approximate quarter cor. between secs. 7 and 8, 50 ft. S. and 10 ft. W. from T-rd. E., on W. head wall of concrete culvert; chiseled square

3. FROM GREEN RIDGE QUADRANGLE AT SEC. 33, T. 15 N., R. 21 W., EAST TO SEC. 56, T. 15 N., R. 21 W. (by R. S. Kuebler in 1936)

(Continued from Green Ridge quadrangle; see line 3.)

T. 14 N., R. 21 W., near W. sixteenth cor. on N. line sec. 1, at Valda, 90 ft. E. of E. face of church, on E. end of N. concrete head wall of culvert; chiseled square


Sedalia, near W. limits of, 1,000 ft. E. of Park Avenue, 90 ft. N. of main track in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "XXXVII"

Reference mark, 95 ft. S. of B.M., on NE. corner of concrete porch of Otterville Hotel; chiseled square

Otterville, 0.5 mi. W. of, 93 ft. W. of rd. to Clifton City, 57 ft. SW. of SW. cor. of dwelling of R. D. Case, 6 ft. N. of fence, in concrete post; U.S.C. & G.S. and State Survey standard tablet


Otterville, in SW. cor. of farm lot of L. E. Smith, 170 ft. NW. of dwelling, 20 ft. N. of rd. in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "XXXVII"

Reference mark, 95 ft. S. of B.M., on NE. corner of concrete porch of Otterville Hotel; chiseled square

5. FROM OTTERVILLE NORTHWEST INTO NELSON QUADRANGLE AT SEC. 18, T. 14 N., R. 19 W. (by F. C. Lentz in 1936)


Otterville, 0.5 mi. W. of, 93 ft. W. of rd. to Clifton City, 57 ft. SW. of SW. cor. of dwelling of H. D. Case, 6 ft. N. of fence, in concrete post; U.S.C. & G.S. and State Survey standard tablet

T. 16 N., R. 19 W., near W. quarter cor. sec. 23, 85 ft. W. of rd. to Clifton City, 60 ft. N. of E.-W. fence, in root on NE. side of 30-in. locust tree; lead-headed nail

T. 16 N., R. 19 W., near SW. cor. sec. 26, at turn in rd. to Clifton City, 100 ft. SW. of farmhouse, in root on SW. side of 24-in. elm tree; screw


T. 16 N., R. 19 W., in SW 1/4 sec. 29, 1 mi. N. and 1.5 mi. W. from Otterville, at top of ridge, 692 ft. N. and 100 ft. W. from small farmhouse, in E.-W. fence line, in concrete post; U.S.C. & G.S. and State Survey standard tablet

T. 16 N., R. 19 W., in NW 1/4 sec. 29, N. of rd. to Clifton City at rd. fork, 200 ft. NW. of small white oak, 10 ft. NW. of blazed 12-in. hickory tree, in stump; monel rivet

T. 16 N., R. 19 W., near NW. cor. sec. 30, W. of rd. to Clifton City, in front yard of dwelling of H. N. Brooks, in root on E. side of 30-ln. oak tree; monel rivet

T. 16 N., R. 19 W., near NE. cor. sec. 30, W. of rd. to Clifton City, in front yard of dwelling of H. N. Brooks, in root on E. side of 30-ln. oak tree; monel rivet


Sedalia, 0.5 mi. W. of Missouri Pacific R.R. shops, 200 ft. E. of milepole 187.50, on right-of-way, on SW. corner of concrete base of semaphore; chiseled square 912.80

Sedalia, 1 mi. N. and 0.2 mi. E. from U.S. Highway 50 at Marshall Avenue, near NW. cor. sec. 3, T. 15 N., R. 21 W., at intersection of Boonville Street and Beaman rd. (now Hardin Avenue), on N. end of W. head wall of concrete culvert; chiseled square 885.81


(Continued in Nelson quadrangle; see line 3.)


T. 14.6 N., R. 21 W., cor. secs. 25, 26, 35, and 36, on W. side of Griessen rd., 500 ft. E. of farmhouse, on W. end of N. head wall of concrete culvert; chiseled square 856.20

T-rd. S., on top of head wall of concrete culvert; painted square 875.90

T. 14.6 N., R. 21 W., cor. secs. 26, 27, 35, and 36, on intersection of Griessen rd. and Longwood rd., E. of rd., on N. end of E. head wall of concrete culvert; chiseled square 882.18

Sunny Side School, at entrance, on concrete walk; chiseled square 862.86


(Continued in Nelson quadrangle; see line 7.)

8. FROM SEDALIA WEST ALONG U.S. HIGHWAY 65 INTO GREEN RIDGE QUADRANGLE (by F. C. Lentz in 1936)

Sedalia, at SW. corner of West Broadway (also U.S. Highway 65) and Park Streets, on top of concrete curb; chiseled square 849.62

(Continued in Green Ridge quadrangle; see line 6.)


T. 14.6 N., R. 20 W., in NW 1/4 sec. 6, 100 ft. S. and 15 ft. E. from T-rd. S., in root of 15-ft. elm tree; copper nail and washer 830.94

T. 14.5 N., R. 20 W., in NE 1/4 sec. 9, 20 ft. S. and 60 ft. E. from rd. corner, in root on S. side of 14-ft. white-oak tree; copper nail and washer 910.61


(Continued in Nelson quadrangle; see line 5.)
10. FROM TIPTON QUADRANGLE AT SEC. 34, T. 45 N., R. 19 W., NORTH ALONG COUNTY ROUTE A (now State Highway 135) AND OTHER ROADS TO OTTERVILLE (by F. C. Lentz in 1936)
(Continued from Tipton quadrangle; see line 3.)
T. 45 N., R. 19 W., in NW 1/4 sec. 34, 30 ft. S. and 10 ft. E. from crossroads, in root of 12-in. black-oak tree; copper nail and washer 829.2L

(Continued from Tipton quadrangle; see line 3.)
T. 43 N., R. 19 W., in NW 1/4 sec. 34, 35 ft. E. of State Highway 135 at crossroad, in root of 12-in. black-oak tree; copper nail and washer 1,008.68

(Continued from Tipton quadrangle; see line 3.)
For additional level lines along Missouri Pacific R.R., Missouri-Kansas-Texas R.R., and U.S. Highway 65, refer to United States Coast and Geodetic Survey first-order line, Jefferson City to Pleasant Hill; and second-order lines, Sedalia to Springfield and Sedalia to Sweet Springs.
SPIRIT LEVELING IN MISSOURI
NELSON QUADRANGLE
(Latitude 38°45'–39°00'; longitude 93°00'–93°15')
Cooper, Pettis, and Saline Counties


Ridge triangulation sta.; U.S.C. & G.S. standard disk designated "Ridge"
Reference mark 2; U.S.C. & G.S. standard reference disk
Nelson, 2 mi. S. and 0.5 mi. E. from, near center of NE 1/4 sec. 6, T. 14 N., R. 19 W., about 700 ft. S. of Salt Fork Cemetery, 21 ft. S. and 36 ft. E. from T-rd., in fence line, in root on S. side of 12-in. burr-oak tree; copper nail and washer
Reference mark, 30 ft. S. and 10 ft. E. from tablet, in root on NE. side of 18-in. cottonwood tree; copper nail and washer
Nelson, 1 mi. SW. of, near center of NE 1/4 sec. 31, T. 14 N., R. 19 W., on S. end of E. concrete curb of bridge over Elackwater River; chiseled square
Nelson, at post office, 3 in. S. of pilaster, on N. end of entrance; chiseled square

(Continued in Marshall quadrangle; see line 1.)


T. 14 N., R. 21 W., near N. sixteenth cor. sec. 32, 330 ft. N. and 7 ft. E. from T-rd. E., 200 ft. N. and 90 ft. E. from Pleasant Valley School, on E. end of S. head wall of concrete abutment of bridge over Buck Branch; chiseled square
T. 14 N., R. 21 W., quarter cor. between secs. 32 and 33, 51 ft. N. and 38 ft. E. from, on top of hill, 4 ft. S. of SW. corner of farmhouse of Western Odways, in root on W. side of 16-in. persimmon tree; copper nail and washer
T. 14 N., R. 21 W., near quarter cor. between secs. 4 and 5, on U.S. Highway 10, 20 ft. N. and 375 ft. W. from crossroad, on E. end of N. head wall of concrete culvert; chiseled square
T. 14 N., R. 21 W., 18 1/2 sec. S. of rd., in root on B. side of 36-in. burr-oak tree; copper nail and washer
T. 14 N., R. 21 W., quarter cor. between secs. 8 and 17, 57 ft. N. and 33 ft. E. from, 33 ft. E. of N.-S. rd., in front yard of Fitzgerald farmhouse, in root on W. side of twin 20-in. white-oak tree; copper nail and washer
T. 14 N., R. 21 W., quarter cor. between secs. 17 and 20, 54 ft. N. and 24 ft. W. from, 39 ft. N. and 24 ft. W. from T-rd. E., 12 ft. S. and 34 ft. E. from SE. corner of farmhouse of Tracey Haggard, in root on E. side of 10-in. cedar tree; copper nail and washer

(Continued in Sweet Springs quadrangle; see line 2.)
FROM SMITHTON QUADRANGLE AT SEC. 16, T. 46 N., R. 19 W., NORTH INTO PILOT GROVE QUADRANGLE AT SEC. 33, T. 46 N., R. 19 W. (by C. F. Leins in 1936) (Continued from Smithton quadrangle; see line 5.)


T. 46 N., R. 19 W., near center sec. 17, on Missouri-Kansas-Texas R.R., 160 ft. SE. of W. end of W. barn of dwelling; small brick plug.

T. 46 N., R. 19 W., in sec. 17, 1 mi. E. of Clifton City, N. of Missouri-Kansas-Texas R.R., on NW. corner of concrete base of S. post; (mark not described)


T. 46 N., R. 19 W., in sec. 9, 1.5 mi. NE. of Clifton City, on S. side of Missouri-Kansas-Texas R.R. signal tower 217; top of W. bolt.


T. 46 N., R. 19 W., near quarter cor. between secs. 3 and 4, 0.3 mi. S. of Missouri-Kansas-Texas R.R., 0.2 mi. S. of dwelling, 15 ft. W. of rd., 20 ft. from root of 10-in. walnut tree; copper nail and washer.

T. 46 N., R. 19 W., near NW. cor. sec. 3, on rd. to Oak Hill School, 600 ft. NE. of Decker farmhouse, 120 ft. S. of Spring Branch, in root of 50-in. white-oak tree; copper nail and washer.

T. 47 N., R. 19 W., N. sixteenth cor. between secs. 33 and 34, at T-rd., on W. end of W. wall of concrete culvert; chiseled square.

T. 47 N., R. 19 W., 50 ft. S. of line between secs. 33 and 34, 0.2 mi. SE. of dwelling of John Schibi, on N. end of W. wall of concrete culvert; chiseled square.

T. 47 N., R. 19 W., in NW 1/4 sec. 33, about 0.3 mi. E. of farmhouse of John Schibi, 10 ft. W. of rd., 10 ft. from W. head of concrete culvert; copper nail and washer.

T. 47 N., R. 19 W., in sec. 28, on NW. corner of concrete step to Rheinhart School; chiseled square.

T. 47 N., R. 19 W., cor. secs. 21, 22, 27, and 28, 15 ft. N. and 15 ft. E. from crossroads, 6 ft. N. of E. end of concrete culvert, in concrete post; standard tablet stamped "12 C W A 1931." (Continued in Pilot Grove quadrangle; see line 3.)


T. 47 N., R. 19 W., 300 ft. S. of line between secs. 16 and 21, on NW. end of concrete culvert; chiseled square.


FROM SMITHTON QUADRANGLE AT SEC. 16, T. 46 N., R. 20 W., NORTH TO SEC. 9, T. 47 N., R. 20 W., THENCE EAST TO SEC. 16, T. 47 N., R. 19 W. (by C. F. Thompson in 1934 and F. C. Lentz in 1936) (continued from Smithton quadrangle; see line 6.)

Beaman, 0.2 mi. S. and 1.5 mi. W. from, 25 ft. S. and 10 ft. W. from quarters E. of between secs. 16 and 19, T. 46 N., R. 20 W., 22 ft. W. and 10 ft. E. from crossroads, on S. end of W. head wall of concrete culvert; chiseled square.

Beaman, 1.5 mi. W. of, near center of 8 1/2 sec. 16, T. 46 N., R. 20 W., 22 ft. W. and 10 ft. E. from crossroads, on N. end of E. head wall of concrete culvert; chiseled square.


T. 14.7 N., R. 20 W., near SE. cor. sec. 5, 0.6 mi. N. of Olive Branch Baptist Church, on top of hill, near dwelling of A. Roger, 15 ft. W. of rd., in root on E. side of 30-in. oak tree; copper nail and washer


Lookout, 0.5 mi. E., thence 0.2 mi. S. from, 510 ft. N. and 160 ft. E. from crossroads, in fence corner, in root on SW. side of 30-in. post-oak tree; copper nail and washer

Lookout, 0.6 mi. N. of, quarter cor. between secs. 9 and 16, T. 14.7 N., R. 20 W., 20 ft. S. of rd., on N. end of W. head wall of concrete culvert; chiseled square


Lookout School, 0.5 mi. E., thence 0.2 mi. S. of, on N. end of W. head wall of concrete culvert; chiseled square


Cartwright School, 0.5 mi. E., thence 0.2 mi. S. of, on N. end of W. head wall of concrete culvert; chiseled square

Cartwright School, 0.5 mi. E., thence 0.2 mi. S. of, from, 510 ft. S. and 10 ft. E. from sec. 16. S. cor. 9, T. 14.7 N., R. 20 W., 12 ft. E. of rd., in root on W. side of 30-in. elm tree; copper nail and washer

Cartwright School, 15 ft. S. and 60 ft. W. from SW. corner of concrete walk to Union Church; chiseled square


T-rd. S., N. of, on head wall of concrete culvert; chiseled square

T. 14.7 N., R. 20 W., in NW 1/4 sec. 17, at SE. corner of steel bridge over Lamine River, on E. end of S. abutment; chiseled square


T. 14.7 N., R. 20 W., in SE 1/4 SE 1/4 sec. 11, 60 ft. W. of T-rd. S., N. of rd., on SW. corner of concrete walk to Union Church; chiseled square

T. 14.7 N., R. 20 W., in SE 1/4 sec. 12, 0.5 mi. W. of farmhouse of E. Dilthey, on end of S. wall of concrete culvert; chiseled square

T. 14.7 N., R. 19 W., in SW 1/4 sec. 7, at turn in rd., in 12-in. black-walnut tree; copper nail and washer

T. 14.7 N., R. 19 W., in NW 1/4 sec. 37, at SE. corner of steel bridge over Lamine River, on E. end of S. abutment; chiseled square

T. 14.7 N., R. 19 W., in NW 1/4 sec. 17, at SE. corner of steel bridge over Lamine River, on E. end of S. abutment; chiseled square

T. 14.7 N., R. 19 W., in NW 1/4 sec. 17, at SE. corner of steel bridge over Lamine River, on E. end of S. abutment; chiseled square

T. 14.7 N., R. 19 W., in NW 1/4 sec. 17, at SE. corner of steel bridge over Lamine River, on E. end of S. abutment; chiseled square

T. 14.7 N., R. 19 W., 0.5 mi. S. and 10 ft. E. from crossroads, 20 ft. N. and 60 ft. W. from NW. corner of farmhouse, in root on W. side of 20-in. black-walnut tree; copper nail and washer

T. 14.7 N., R. 19 W., 64½ ft. N. and 27 ft. E. from crossroads, 20 ft. N. and 60 ft. W. from NW. corner of farmhouse, in root on W. side of 20-in. black-walnut tree; copper nail and washer

1000 SPIRIT LEVELING IN MISSOURI
5. FROM SWEET SPRINGS QUADRANGLE AT SEC. 20, T. 48 N., R. 21 W., SOUTH INTO SWEET SPRINGS QUADRANGLE AT SEC. 20, T. 47 N., R. 21 W. (by P. C. Lentz in 1936)

T. 48 N., R. 21 W., E. sixteenth cor. between sec. 29 and 32, 400 ft. S. and 15 ft. W. from T-rd. S., in root on N. side of twin 8-in. elm tree; copper nail and washer

Wooden bridge over creek, at SW. corner of, on W. end of concrete abutment; chiseled square


Bridge over small creek; surface of floor

T. 14.8 N., R. 21 W., E. sixteenth cor. between sees. 29 and 32, 100 ft. S. and 15 ft. W. from T-rd. S., in root on N. side of twin 6-in. elm tree; copper nail and washer

Wooden bridge over creek, at SW. corner of, on W. end of concrete abutment; chiseled square

T. 14.8 N., R. 21 W., in NE 1/4 sec. 5, 150 ft. N. and 250 ft. W. from NW. corner of school, 25 ft. E. of rd., in 12-in. hedge tree; copper nail and washer

T. 47 N., R. 21 W., S. sixteenth cor. sec. 8, 150 ft. N. and 250 ft. W. from NW. corner of school, 25 ft. E. of rd., in 12-in. hedge tree; copper nail and washer

T. 47 N., R. 21 W., near W. sixteenth cor. between sees. 10 and 15, 14 ft. S. and 35 ft. E. from U.S. Highway 65 at County Route D. to W. and County Route J to E., 2 ft. N. and 5 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 37 C 1936"

T. 47 N., R. 21 W., in NE 1/4 sec. 15, 0.7 mi. E. of U.S. Highway 65, at SW. corner of concrete bridge over small creek, on concrete abutment; chiseled square


Reference mark, 210 ft. N. and 25 ft. E. from tablet, on iron pipe culvert; painted square

T. 14.7 N., R. 21 W., S. sixteenth cor. sec. 20, 20 ft. N. and 15 ft. W. from T-rd. N., on head wall of concrete culvert; chiseled square

(Taken in Sweet Springs quadrangle; see line 6.)

6. FROM SEC. 17, T. 47 N., R. 21 W., EAST TO SEC. 15, T. 47 N., R. 21 W., THENCE EAST ALONG COUNTY ROUTE J TO SEC. 9, T. 47 N., R. 20 W. (by F. C. Lentz in 1936)

T. 47 N., R. 21 W., S. sixteenth cor. sec. 16, 40 ft. S. and 200 ft. W. from rd. corner W.-N., in root on N. side of 40-in. elm tree; copper nail and washer

T. 47 N., R. 21 W., near W. sixteenth cor. between sees. 10 and 15, 14 ft. S. and 35 ft. E. from U.S. Highway 65 at County Route D. to W. and County Route J to E., 2 ft. N. and 5 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 37 C 1936"

T. 47 N., R. 21 W., in NE 1/4 sec. 15, 0.7 mi. E. of U.S. Highway 65, at SW. corner of concrete bridge over small creek, on concrete abutment; chiseled square


Cartwright School, 1.2 mi. W. of, at SE. corner of concrete bridge, on top of concrete abutment; chiseled square

(Taken in Sweet Springs quadrangle; see line 6.)

7. FROM SMITHTON QUADRANGLE AT SEC. 21, T. 46 N., R. 21 W., NORTH-WEST INTO SWEET SPRINGS QUADRANGLE AT SEC. 17, T. 46 N., R. 21 W. (by F. C. Lentz in 1936)

(Taken from Smithton quadrangle; see line 7.)


(Taken in Sweet Springs quadrangle; see line 6.)


T. 48 N., R. 19 W., quarter cor. between sees. 4 and 5, 12 ft. S. and 60 ft. W. from T-rd. W., on E. end of S. concrete head wall of culvert; chiseled square

U.S.C. & G.S. standard disk stamped "N 97 1935"

Reference mark 1; U.S.C. & G.S. standard reference disk designated "Ridge triangulation sta. reference mark 1"

(Taken in Sweet Springs quadrangle; see line 6.)
SPIRIT LEVELING IN MISSOURI

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE IN SEC. 5, T. 14 N., R. 21 W. (by G. R. Hamlin in 1936)

T. 14 N., R. 21 W., near quarter cor. between secs. 4 and 5, on U.S. Highway I-20, 20 ft. N. and 375 ft. W. from crossed rd., on S. end of N. head wall of concrete culvert; chiseled square
U.S.C. & G.S. standard disk stamped "F 97 1935"

For additional level lines along U.S. Highways 40 and 65, refer to United States Coast and Geodetic Survey second-order lines, Lexington to Boonville and Sedalia to Sweet Springs.

MARTHALL QUADRANGLE
(Latitude 39°00' - 39°15'; longitude 93°00' - 93°15')
Cooper and Saline Counties


(Continued from Nelson quadrangle; see line 1.)

NELSON, 0.6 mi. N. of, 75 ft. N. and 32 ft. W. from junction of rd. N., 5 ft. N. and 6 ft. W. from fence corner, in concrete post; standard tablet stamped "1022 C W A 1931." Reference mark, 107 ft. E. of tablet, in root on N. side of 8-in. elm tree; copper nail and washer

NELSON, 1 mi. N., thence 1.5 mi. W. from, 48 ft. S. of highway, in wooded pasture of Belle Lindsey, 18 ft. S. and 9 ft. E. from fence corner, in root on N. side of 30-in. oak tree; copper nail and washer

NELSON, 1 mi. N., thence 2.2 mi. W. from, 663 ft. W. from quarter cor. between secs. 23 and 24, T. 14 N., R. 20 W., 20 ft. N. of highway, in root on S. side of triple 60-in. elm tree; copper nail and washer

NELSON, 1 mi. N., thence 2.5 mi. W. from, 125 ft. N. and 87 ft. E. from intersection of tangents of highway E.-N. and rd. S., 57 ft. N. of highway at curve, in concrete post; standard tablet stamped "1021 C W A 1931"

T. 14 N., R. 20 W., cor. secs. 14, 15, 22, and 23, 152 ft. S. and 16 ft. W. from junction of rd. W., on W. head wall of concrete culvert; chiseled square

NAPTON, 1.2 mi. S. of, cor. secs. 10, 11, 14, and 15, T. 14 N., R. 20 W., 27 ft. S. and 300 ft. W. from highway S.-W. at County Route E to N. and rd. E., in front of dwelling of Albert Wells, in root on SW. side of 10-in. cedar tree; copper nail and washer

NAPTON, 1.2 mi. S., thence 1.1 mi. W. from, 13 ft. S. and 307 ft. E. from junction of rd. S., on E. end of S. head wall of concrete culvert; chiseled square

T. 14 N., R. 20 W., in SW 1/4, SW 1/4 sec. 9, 103 ft. S. and 45 ft. E. from SE. corner of Smith Chapel of Methodist Episcopal Church, 30 ft. N. of highway, 1 ft. S. and 6 ft. W. from fence corner, in concrete post; standard tablet stamped "1020 C W A 1931"

Reference mark, 65 ft. N. of tablet, in root on SW. side of 26-in. oak tree; copper nail and washer

T. 14 N., R. 20 W., cor. secs. 7, 8, 17, and 18, 15 ft. S. and 270 ft. E. from, 1.1 mi. W. of Smith Chapel of Methodist Episcopal Church, on W. end of S. head wall of concrete culvert; chiseled square

T. 14 N., R. 20 W., near W. sixteenth cor. between secs. 7 and 18, 15 ft. S. of highway, on E. end of S. head wall of concrete culvert; chiseled square

Reference mark, 65 ft. N. of tablet, in root on SW. side of 26-in. oak tree; copper nail and washer

T. 14 N., R. 20 W., cor. secs. 7, 8, 17, and 18, 15 ft. S. and 270 ft. E. from, 1.1 mi. W. of Smith Chapel of Methodist Episcopal Church, on W. end of S. head wall of concrete culvert; chiseled square

T. 14 N., R. 20 W., near W. sixteenth cor. between secs. 7 and 18, 15 ft. S. of highway, on E. end of S. head wall of concrete culvert; chiseled square
T. 49 N., R. 21 W., W. sixteenth cor. between sees. 12 and 13, 32 ft. S. and 22 ft. W. from junction of rd. S., 1 ft. N. and 2 ft. W. from fence corner; in concrete post; standard tablet stamped "1019 C.W.A. 1934".

Reference mark, 225 ft. S. and 42 ft. E. from tablet, in root on W. side of 14-ln. locust tree; copper nail and washer.

T. 49 N., R. 21 W., near S. sixteenth cor. between sees. 10 and 11, 31 ft. S. and 300 ft. W. from T-rd. W., in SW. corner of yard of Mt. Airy School, in root on NW. side of 36-in. box-elder tree; copper nail.


Reference mark, 21 ft. N. and 14 ft. E. from tablet, on S. end of W. head wall of concrete culvert; chiseled square.

T. 49 N., R. 21 W., cor. sees. 15, 16, 21, and 22, 78 ft. N. and 45 ft. W. from stone, on top of hill, about 800 ft. W. of dwelling of W. P. Luse, 96 ft. (?) from E.-W. rd. at cemetery, in root on SE. side of 30-in. white-oak tree; copper nail and washer.

T. 49 N., R. 21 W., in NW 1/4 sec. 21, 65 ft. S. and 24 ft. E. from rd. fork NW., in concrete post; in root on NW. side of 16-in. oak tree; copper nail and washer.

T. 49 N., R. 21 W., near center of SE 1/4 sec. 20, on top of hill, 27 ft. N. of rd., in yard of destroyed farmhouse, in root on SW. side of 20-in. maple tree; copper nail and washer.

T. 49 N., R. 21 W., near sixteenth cor. between sees. 20 and 29, 8 ft. N. from SE. corner of Buck Smiley's SW. WOOL 15 ft. S. and 38 ft. W. from rd. corner S.-E., 117 ft. N. and 38 ft. W. from T-rd. W., in concrete post; standard tablet stamped "1017 C.W.A. 1934".

Reference mark, 2 ft. S. and 38 ft. W. from tablet, in concrete post; copper nail and washer.

(Continued in Malta Bend quadrangle; see line 1.)

FROM BRUNSWICK QUADRANGLE AT SEC. 32, T. 52 N., R. 19 W., SOUTHEAST INTO GLASGOW QUADRANGLE AT SEC. 5, T. 51 N., R. 19 W. (by G. R. Hamlin in 1936)

5. FROM BRUNSWICK QUADRANGLE SOUTH ALONG STATE HIGHWAY 41 TO MARSHALL, THENCE SOUTHWEST ALONG ROADS TO SEC. 21, T. 49 N., R. 21 W. (by G. R. Hamlin in 1936)

(Continued from Brunswick quadrangle; see line 4.)

Gilliam, 0.2 mi. N. of, 36 ft. N. and 75 ft. W. from T-rd. W., in SE. corner of farmyard, in root on E. side of 30-in. locust tree; copper nail and washer.

Marshall, 2.8 mi. N. of, at E. end of cut-off at junction of U.S. Highway 65, on W. end of S. concrete head wall of culvert; chiseled square.

Marshall, 116 ft. S. and 19 ft. W. from SW. corner of courthouse, 43 ft. N. and 121 ft. E. from intersection of Lafayette and Arrow Streets, in concrete post; standard tablet stamped "1066 C.W.A. 1934".

Marshall, in SW. part of, 20 ft. S. and 25 ft. E. from State Highway 20 at South Lyon Street; top of fire hydrant.

(Continued in Glasgow quadrangle; see line 4.)

Culvert, on N. end of W. head wall of concrete culvert; chiseled square.

Pots.
T. 50 N., R. 21 W., cor. secs. 15, 16, 21, and 22, 30 ft. N. and 28 ft. E. from T-rd. E., in root on W. side of 15-in. locust tree; copper nail and washer

T. 50 N., R. 21 W., near center of SE 1/4 sec. 21, 18 ft. N. and 22 ft. E. from T-rd. W., in root on N. side of 15-in. elm tree; copper nail and washer

T-rd. E., 25 ft. E. of, on S. end of iron pipe culvert; chiseled square


T. 50 N., R. 21 W., cor. secs. 28, 29, 32, and 33, 75 ft. N. and 20 ft. E. from T-rd. W., in root on W. side of 15-in. wild-cherry tree; copper nail and washer

T. 50 N., R. 21 W., near E. sixteenth cor. between secs. 29 and 32, 15 ft. N. and 30 ft. W. from T-rd. W., in root on S. side of 30-in. concrete head wall of culvert; copper nail and washer

T. 50 N., R. 21 W., in sec. 32, 50 ft. S. and 90 ft. W. from rd. corner N.-W., in root on N. side of 15-in. hickory tree; crossed nails

Tps. 19 and 50 N., R. 21 W., sixteenth cor. between secs. 5 and 12, 115 ft. N. and 95 ft. E. from T-rd. W., in root on W. side of 24-in. white-oak tree; copper nail and washer

T. 49 N., R. 21 W., W. sixteenth cor. sect. 5, about 0.2 mi. E. of Stone Wall School, 1/2 ft. S. and 13 ft. E. from T-rd. N., 3 ft. S. and 20 ft. E. from twin 2k-in. locust tree, 2 ft. S. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "1068 C W A 1914"

T. 49 N., R. 21 W., E. sixteenth cor. sect. 5, 10 ft. S. and 200 ft. W. from T-rd. S., on E. end of S. concrete head wall of culvert; chiseled square

T. 49 N., R. 21 W., near E. sixteenth cor. sect. 8, 30 ft. S. and 30 ft. W. from center of wooden culvert, in root on N. side of 12-in. elm tree; copper nail and washer

T. 49 N., R. 21 W., near E. sixteenth cor. sect. 17, 240 ft. S. and 20 ft. E. from junction of private rd. E., in root on W. side of 12-in. elm tree; copper nail and washer

T. 49 N., R. 21 W., in SE 1/4 sec. 17, 15 ft. S. and 5 ft. E. from rd. forks E., W., and NW., 16 ft. S. of fence, in concrete post; standard tablet stamped "1069 C W A 1914"

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4. FROM MARSHALL WEST ALONG STATE HIGHWAY 20 INTO MALTA BEND QUADRANGLE (by G. R. Hamlin in 1936)

Marshall, 2 mi. W. of, 20 ft. S. of highway, on W. end of S. concrete head wall of culvert; chiseled square
Marshall, 2.5 mi. W. of, 65 ft. S. and 100 ft. W. from junction of rd. S., in root on N. side of 15-in. black-oak tree; copper nail and washer
Marshall, 3.2 mi. W. of, 20 ft. N. and 55 ft. E. from crossroad, at farm entrance, on W. end of iron pipe culvert; chiseled square

(Continued in Malta Bend quadrangle; see line 5.)

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5. FROM GLASGOW QUADRANGLE AT SEC. 33, T. 51 N., R. 19 W., WEST TO SEC. 35, T. 51 N., R. 20 W., THENCE SOUTH ALONG STATE HIGHWAY 210 TO SEC. 9, T. 50 N., R. 20 W., THENCE WEST ALONG STATE HIGHWAY 41 TO MARSHALL (by G. R. Hamlin in 1936)

T. 51 N., R. 19 W., W. sixteenth cor. between secs. 29 and 32, 20 ft. N. and 30 ft. E. from T-rd. S., 150 ft. NE. of NE. corner of school, in root on N. end of W. concrete head wall of culvert; copper nail and washer

T. 51 N., R. 19 W., quarter cor. between secs. 30 and 31, 18 ft. N. and 80 ft. W. from T-rd. S., 12 ft. S. of SE. corner of church, in root on S. side of 30-in. iron pipe, in concrete post; standard tablet stamped "1067 C W A 1934"

T. 51 N., R. 20 W., quarter cor. between secs. 25 and 36, 190 ft. S. and 18 ft. W. from crossroads, in root on E. side of 30-in. maple tree; copper nail and washer

Slaterr triangulation sta.; U.S.C. & G.S. standard disk designated "Slaterr"

Reference mark 1; U.S.C. & G.S. standard reference disk

Reference mark 2; U.S.C. & G.S. standard reference disk

T. 51 N., R. 20 W., near cor. secs. 26, 27, 34, and 35, 12 ft. S. and 25 ft. E. from State Highway 210 at E.-W. crossroad, on E. end of S. concrete head wall of culvert; chiseled square

T. 50 N., R. 20 W., near center of NE 1/4 sec. 5, 15 ft. N. and 22 ft. E. from junction of rd. E., on E. end of N. concrete head wall of culvert; chiseled square

T. 50 N., R. 20 W., quarter cor. between secs. 3 and 10, 112 ft. S. and 143 ft. W. from crossroad, 70 ft. W. of highway at curve, 1 ft. E. of fence, in concrete post; standard tablet stamped "1090 C W A 1934"

T. 50 N., R. 20 W., quarter cor. between secs. 9 and 26, 28 ft. N. and 150 ft. E. from junction of State Highway 41, at cut-off on Highway 41, on N. end of W. concrete head wall of culvert; chiseled square

Marshall, about 3.5 mi. E. of, 33 ft. N. and 33 ft. W. from highway at crossroad, 5 ft. N. and 12 ft. W. from steel post in fence corner, in concrete post; standard tablet stamped "1091 C W A 1934"

Marshall, 2 mi. E. of, at bridge F-69 over Salt Pork Creek, on base of concrete head wall of culvert; chiseled square

Marshall, in E. part of, NW. of intersection of Eastwood Avenue and rd. N. to Missouri State School; top of fire hydrant

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SPIRIT LEVELING IN MISSOURI

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