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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 1934, the Missouri Geological Survey and Water Resources, under allotments from the Federal Emergency Relief Administration and the Works Progress Administration, has also supplied the funds to pay the personnel working on extensive projects of leveling in the State. For these projects the United States Geological Survey has furnished equipment and supervision as its share of the cooperation.

Classification of leveling.—Spirit leveling is classified according to the degree of refinement in the instruments and methods used and according to the closure errors. First-order leveling consists of leveling done with the most improved instruments, all sections being leveled twice, in opposite directions, under varying conditions. Closures are not allowed to exceed the amount in feet represented by the formula $0.017 \times \text{length of section in miles}$. 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 $0.035 \times \text{length of section in miles}$. 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 $0.05 \times \text{length of section in miles}$. For the results of spirit leveling in Missouri previously published see Triangulation and spirit leveling—Missouri; U. S. Geol. Survey 18th Ann. Rept., pt. 1, pp. 333-337, 1897; Triangulation and spirit leveling—Missouri-Illinois; U. S. Geol. Survey 20th Ann. Rept., pt. 1, pp. 142-143, 1899; Triangulation, primary traverse and spirit leveling—Missouri; U. S. Geol. Survey 21st Ann. Rept., pt. 1, pp. 476-475, 1900; Results of spirit leveling, fiscal year 1900-1901—Missouri, Missouri-Kansas; U. S. Geol. Survey Bull. 185, pp. 107-113, 1901; Results of spirit leveling in Missouri, 1896 to 1910, inclusive; U. S. Geol. Survey Bull. 459, 48 pp., 1911; Results of spirit leveling in Missouri, 1896 to 1914, inclusive; U. S. Geol. Survey Bull. 568, 219 pp., 1915. See Avery, H. G., Manual of first-order leveling; U. S. Coast and Geodetic Survey Special Pub. 140, 1909.
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
tables, 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-
eling 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
tables 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.
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 1933 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 4 feet in length and 3½ 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 ¼ inches in length and 1 inch in diam-
ether 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-

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

Supplementary benchmarks are of many kinds. One kind consists of a copper nail 1\(^{\frac{1}{2}}\) 

inches long supplied with a copper washer seven-eighths of an inch in diameter, through 

which the nail is driven into the root of a tree or some timber structure or cemented 
into rock after bending the point. The designation "U S G S B M" is stamped on each 

washer, and on some washers the abbreviation of the name of the cooperating State is 
added. Another kind of supplementary benchmark is a chiseled square, used on the 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 doorknobs 
and tops of hydrants, are so used.

Preservation and restoration of benchmarks.—Any person who finds that a principal 
b 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-

mined 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.—Northeastern Missouri, as the term is used in this bulletin 
and as the subject of part 6 of the bulletin, is, as its name indicates, the north-
eastermost section of the State. Its north and east boundaries are the boundaries 
of the State; its west and south boundaries are formed by a line that runs south along 

longitude 93°15' to latitude 39°30', thence east to longitude 92°00', thence south to 
latitude 39°15', thence east to the east boundary of the State. (See fig. 11.)

*See Jones, E. L., Hypsometry—Use of mean sea level as the datum for elevations: 
U.S. Coast and Geodetic Survey Special Pub. 11, 1927. Manual of tide observations: 
U.S. Coast and Geodetic Survey Special Pub. 190, 1929.
Index map.—The accompanying index map of northeastern Missouri (fig. 12) shows the relative position of the quadrangle areas which make up this section. A quadrangle is the unit of topographic survey adopted by the Geological Survey for dividing the area of the United States. All the quadrangles referred to in listing the results of leveling in northeastern Missouri measure 15 minutes in latitude by 15 minutes in longitude. With the name of each quadrangle, as shown on the map, is given the number of the page in this bulletin on which begins the list of descriptions of benchmarks in that quadrangle.

Figure 11.—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 northeastern Missouri.

Maps of many of the quadrangles in northeastern 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.
Figure 12. Index map of northeastern Missouri showing the quadrangles into which this section of the State has been divided. No leveling has been done by the United States Geological Survey in those quadrangles in which no name appears.
Diagrams of quadrangles showing routes of leveling.—At the beginning of the list of benchmark descriptions for each quadrant is a diagram showing the routes followed by the lines of leveling in and immediately adjacent to that quadrant. To aid in identifying these routes, the boundaries of the townships and ranges in the quadrant are indicated by light dashed lines, and the designations of these land subdivisions are given on the margin. The principal settlements are also shown. The solid lines represent the routes of the third-order leveling of the United States Geological Survey. To each of these is assigned a number, and the same number is assigned to the list of descriptions of benchmarks along that route. The heavy dashed lines represent the first-order leveling of the United States Coast and Geodetic Survey.

Personnel.—The leveling of the United States Geological Survey in northeastern 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 mainly by V. S. Benfell, computer. The revision, correlation, and compilation of the descriptions of benchmarks was done in the field office at Rolla, Mo., by employees of the Works Progress Administration of Missouri, who also assembled the lists and made new typewritten copies of them suitable for reproduction by photography. The work at Rolla was sponsored by the Missouri Geological Survey and Water Resources and 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. G. Staeck, chief topographic engineer.
| FRIENDSHIP SCHOOL | 887 |
| FRUITHILL SCHOOL | 778 |
| FRY TRIANGULATION STA. | 851 |
| GIBBS | 807, 810 |
| GIBBS TRIANGULATION STA. | 869 |
| GILBERT SCHOOL | 868 |
| GLENDALE SCHOOL | 864 |
| GREENETZ REFINERY | 719 |
| GLENDALE | 817, 820 |
| GOLDBERGER | 852 |
| GOSH | 772 |
| GRANDVIEW SCHOOL | 862 |
| GRAYSVILLE | 863 |
| GREEN CITY | 864 |
| GREEN CITY S.9. | 863-865 |
| GREEN GROVE SCHOOL | 820 |
| GRENZSTATT | 864, 865 |
| GREENCASTLE TRIANGULATION STA. | 866 |
| GREENSBURG | 788 |
| OROGAN BRIDGE OVER CHARLTON RIVER | 820 |
| GROSS, H. W., LEVELING BY | 839, 850-851 |
| HCHEDULE | 841-845 |
| HATCH SALT SPRING (STATION) | 869 |
| HELSLEY | 860 |
| HOG CREEK | 868 |
| HOLLIDAY | 801-802 |
| HONEY CREEK | 749, 751 |
| HOPE | 868 |
| HUNTER | 869-870 |
| HUNNENWELL | 770, 771 |
| HURDLAND TRIANGULATION STA. | 806-808 |
| HURDLAND TRIANGULATION STA. | 806-808 |
| HUSTED SCHOOL | 842 |
| HUTCHISON | 765 |
| INDIAN CREEK | 772 |
| JACKSONVILLE | 802, 803 |
| JOHNSON, L. V., LEVELING BY | 820-821 |
| JUHL | 822-823 |
| KAHOKA | 747, 748, 749, 751 |
| KAHOKA TRIANGULATION STA. | 758-759 |
| KOOKUK TRIANGULATION STA. | 766 |
| KOOSAQUA TRIANGULATION STA. | 783-784 |
| KINKADE TRIANGULATION STA. | 785 |
| KIRKSVILLE | 810-815 |
| KIRKSVILLE TRIANGULATION STA. | 823-824 |
| KISSINGER | 737 |
| KNOX CITY | 790-791 |
| LA BELLE | 777 |
| LA BELLE TRIANGULATION STA. | 777-778 |
| LADLE | 856-862 |
| LADDONIA | 766 |
| LA GRANGE | 772, 773 |
| LAKESIDE | 770, 771 |
| LA MOTTE | 868 |
| LANCASHIRE | 816, 817, 818-819 |
| LEXINGTON | 810-811 |
| LA PLATA TRIANGULATION STA. | 806-810 |
| LENTER | 799, 800 |
| LEONARD | 796 |
| LEVELLING, ADJUSTMENT OF NET OF IV CLASSIFICATION OF III-IV | 719 |
| IN MISSOURI, EARLIER PUBLICATIONS ON | 719 |
| LOWTOWN | 752, 777 |
THIRD-ORDER LEVELING

NEBO QUADRANGLE*
(Latitude 39°15'-39°50'; longitude 90°45'-91°00')

Pike County

1. FROM CLARKSVILLE SOUTHEAST TO EAGLE WEST ISLAND (by L. V. Johnson in 1928)

U.S.C.E. B.M. designated "28"
Copper bolt
Clarksville, about 1 mi. SE. of, along river rd., 25 ft. N. and 25 ft. W. from junction of lane W., on W. side of, at end of head wall of concrete culvert; chiseled square
Clarksville, about 2 mi. SE. of, along river rd., about 1,000 ft. SE. of junction of lane W., 10 ft. NS. of rd., in root on SW. side of 18-in. oak tree; copper nail and washer
U.S.C.E. B.W. designated "82/1"
Top of cap
Copper bolt

2. FROM CLARKSVILLE SOUTHEAST ALONG CHICAGO, BURLINGTON & QC RAILROAD TO ANNADA, THENCE WEST INTO ELSBERRY QUADRANGLE AT SOUTHWEST CORNER OF QUADRANGLE (by L. V. Johnson in 1928)

Clarksville, at S. limits of, 20 ft. S. and 10 ft. W. from W. track at rd. crossing, 2 ft. S. of NE. corner of stockyard fence, in concrete post; standard tablet stamped "9 L J 1928"
555.699
Clarksville, 1 mi. S. of, 150 ft. S. of T-fence E., 10 ft. W. of track, on NW. corner of concrete base of semaphore; chiseled square
631.96
Clarksville, 2.7 mi. S. of, 10 ft. N. and 50 ft. W. from crossing at private rd., 5 ft. N. of gatepost, 25 ft. W. of T-fence W., in concrete post; standard tablet stamped "9 L J 1928"
699.189
T. 53 N., R. 1 E., near center sec. 35, 10 ft. S. of curve, on NE. corner of concrete base of semaphore; chiseled square
53.38

Kissing, about 0.5 mi. W. of, on SE. corner of concrete base of semaphore; chiseled square
55.25
Kissing, at sta., 12 ft. W. of W. track, on concrete base of semaphore; chiseled square
55.5.43
Kissing, about 1 mi. SE. of, 60 ft. S. and 30 ft. W. from bridge, 35 ft. W. of rd. crossing, 5 ft. E. of telegraph pole, in concrete post; standard tablet stamped "9 L J 1928"
559.293
Reference mark, at NW. corner of bridge, on concrete abutment; chiseled square
58.80
52.4
59.20
Kissing, about 1 mi. NW. of, at crossing of private rd.; top of W. rail
54.28
Annada, 1.5 mi. N. of T-rd. S., in concrete post; standard tablet stamped "7 T Sta No 26 P 1928"
50.20
Reference mark, 15 ft. N. and 7 ft. E. from T-rd. S., on concrete base of corner fence post; chiseled square
94.110
95.87
96.34

Annada, about 2 mi. W. of, 70 ft. N. and 5 ft. W. from crossroads, on W. head wall of concrete culvert; chiseled square
530.91

Paynesville, about 0.7 mi. E. of, 10 ft. N. and 10 ft. W. from junction of private rd. W. to farmhouse, on head wall of concrete culvert; chiseled square
545.20

*The greater part of this quadrangle lies in Illinois.
SPIRIT LEVELING IN MISSOURI

Paynesville, at W. limits of, near center sec. 21, T. 52 N., R. 1 E., 30 ft. S. and 15 ft. E. from junction of rd. to church, in concrete post; standard tablet stamped "T T Sta No 50 F 1928"

Reference mark, 15 ft. W. and 10 ft. E. from tablet, on head wall of concrete culvert; chiseled square

Paynesville, about 1.2 mi. W. of, center sec. 20, T. 52 N., R. 1 E., 10 ft. N. and 20 ft. E. from T-3rd. S., about 100 ft. N. of creek bed, in root on E. side of 72-in. sycamore tree; copper nail and washer

Paynesville, about 2.2 mi. W. of, near center sec. 19, T. 52 N., R. 1 E., about 600 ft. E. of private rd. S., 5 ft. S. of rd., on head wall of concrete culvert; chiseled square

Reference mark, 30 ft. S. and 20 ft. E. from T-3rd. S., in concrete post; standard tablet stamped "T T Sta No 30 F 1928"

Eolia, about 2 mi. NE. of, near center sec. 19, T. 52 N., R. 1 W., at foot of large hill, 15 ft. S. of rd., 150 ft. W. of fence corner, in root on N. side of 30-in. sycamore tree; copper nail and washer

Eolia, about 2 mi. NE. of, near center of land grant, T. 52 N., R. 1 W., 20 ft. S. of T-3rd. NW., 15 ft. E. of T-fence SE., in root on E. side of 15-in. oak tree; copper nail and washer

Clarksville, about 1 mi. NW. of, along Chicago, Burlington & Quincy R.R., in SW 1/4 sec. 8, T. 55 N., R. 1 E., 8 ft. S. and 100 ft. E. from trestle over Calumet Creek, on concrete abutment of bridge; chiseled square

Clarksville, about 2 mi. W. of, near quarter cor. between secs. 7 and 18, T. 55 N., R. 1 E., 10 ft. W. of N.-S. rd. in line with rd. W., in root on SW. side of 60-in. elm tree; copper nail and washer

Reference mark, 18 ft. S. of tablet, in root on E. side of twin oak tree; copper nail and washer

Clarksville, about 2.8 mi. W. of, cor. sees. 7, 12, 15, and 18, T. 55 N., Rs. 1 E. and 1 W., 20 ft. N. and 70 ft. E. from T-3rd. E., on head wall of concrete culvert; chiseled square

T. 55 N., R. 1 W., near center sec. 12, 150 ft. W. of church, 6 ft. N. of rd., on head wall of concrete culvert; chiseled square

Clarksville Church, about 3.2 mi. W. of Clarksville, center sec. 11, T. 55 N., R. 1 W., 10 ft. S. and 30 ft. E. from T-3rd. E., at NE. corner of fence around church, in concrete post; standard tablet stamped "T T Sta No 30 F 1928"

Reference mark, 18 ft. S. of tablet, in root on E. side of twin oak tree; copper nail and washer

T. 55 N., R. 1 W., on line between secs. 10 and 15; about 1.2 mi. E. of Wash; 7 ft. N. and 20 ft. E. from steel bridge over Little Calumet Creek, on concrete wing wall; chiseled square

(Continued in Bowling Green quadrangle; see line 1.)

FROM BOWLING GREEN QUADRANGLE SOUTH THROUGH ABERDEEN INTO BOWLING GREEN QUADRANGLE (by L. V. Johnson in 1928)

(Continued from Bowling Green quadrangle; see line 1.)

Aberdeen, about 1 mi. N. of, in land grant, T. 52 N., R. 1 W., 300 ft. N. of angle in rd., at bottom of large ravine, on E. head wall of concrete culvert; chiseled square

Aberdeen, 30 ft. W. and 40 ft. E. from crossing, 3 ft. NW. of fence corner, in concrete post; standard tablet stamped "T T Sta No 42 F 1929"

Reference mark, 50 ft. N. and 15 ft. E. from crossing, on concrete base of water pump; chiseled square

Aberdeen, about 1 mi. S. of, 10 ft. E. from crossing, on concrete head wall of culvert; chiseled square

For an additional level line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, Savannah to Grafton, Ill.
1. FROM NEBO QUADRANGLE AT SEC. 15, T. 53 N., R. 1 W., WEST AND SOUTH THROUGH CALUMET INTO NEBO QUADRANGLE AT POINT ABOUT 2 MILES SOUTH OF CALUMET (by L. V. Johnson in 1928) (Continued from Nebo quadrangle; see line 5.)
Louisiana, 5 mi. S. and 1 mi. E. from, in NW 1/4 sec. 16, T. 53 N., R. 1 W., 60 ft. S. and 40 ft. E. from E. end of rd. forks, 10 ft. S. and 50 ft. E. from gate, at entrance to large brick dwelling, in concrete post; standard tablet stamped "T X Sta No 1 1/0 F 1926" 646.943
Calumet, about 2.1 mi. N. of, in SW 1/4 sec. 16, T. 53 N., R. 1 W., 10 ft. N. and 20 ft. E. from crossroads, on head wall of concrete culvert; chiseled square 643.04
Calumet, about 1 mi. N. of, in NW 1/4 sec. 28, T. 53 N., R. 1 W., about 100 ft. SE. of curve in rd., in line with T-fence W., in root on SE. side of 16-in. elm tree; copper nail and washer 680.24
Calumet, about 0.6 mi. N. of, near center sec. 28, T. 53 N., R. 1 W., 200 ft. S. and 15 ft. W. from T-rd. W., on rock head wall of culvert; chiseled square 635.14
Calumet, 550 ft. S. of T-rd. E., at store, 1 ft. S. and 10 ft. W. from fence corner near church, in concrete post; standard tablet stamped "T X Sta No 1 1/0 P 1926" 582.108
Reference mark, 150 ft. SE. of tablet, in root on E. side of 16-in. elm tree; copper nail and washer 577.20
Calumet, about 1.2 mi. S. of, 15 ft. N. and 25 ft. W. from crossroads, on rock head wall of culvert; chiseled square 633.08
(Continued in Nebo quadrangle; see line 4.)

2. FROM LOUISIANA SOUTHEAST ALONG COUNTY ROUTE D TO SEC. 16, T. 53 N., R. 1 W. (by C. W. Williams in 1934-35)
U.S.C. & G.S. standard disk stamped "D 137 1935" 468.198
Junction of old Clarksville-Louisiana rd., 340 ft. S. of, on SW. head wall of concrete culvert; chiseled square 466.72
Louisiana, about 1.7 mi. S. of, 47 ft. N. and 22 ft. W. from junction of rd. E., in root on N. side of 16-in. elm tree; copper nail and washer 498.36
Bridge Z-405, 67 ft. S. and 28 ft. E. from, 100 ft. N. and 28 ft. E. from entrance to farm of Roy Pitzer, in root on E. side of 16-in. elm tree; crossed nails 460.41
Louisiana, 2.5 mi. S. of, 50 ft. S. and 30 ft. E. from junction of rd. E., in concrete post; standard tablet stamped "1852 R A 1935" 488.601
Tps. 53 and 54 N., R. 1 W., near quarter cor. between secs. 5 and 32, on top of E. end of S. concrete abutment of bridge Z-406 over Buffalo Creek; chiseled square 472.90
T. 53 N., R. 1 W., in SE 1/4 sec. 5, about 650 ft. S. of junction of private rd. E., on top of NE. corner of W. concrete head wall of culvert; chiseled square 535.05
Schlepper's store, in front of, on NW. corner of concrete base of gasoline pump; painted square 547.47
T. 53 N., R. 1 W., in NE 1/4 sec. 8, 165 ft. S. and 25 ft. E. from junction of rd. W., in root on NW. side of 30-in. elm tree; copper nail and washer 566.09
Louisiana, 5 mi. S. and 1 mi. E. from, in NW 1/4 sec. 16, T. 53 N., R. 1 W., 80 ft. S. and 40 ft. E. from E. end of rd. forks, 10 ft. S. and 50 ft. E. from gate, at entrance to large brick dwelling; in concrete post; standard tablet stamped "T X Sta No 1 1/0 P 1926" 646.943
Reference mark, 28 ft. S. and 40 ft. W. from tablet, on base of S. concrete getepost; chiseled square 682.15
*A small part of this quadrangle lies in Illinois.
SPIRIT LEVELING IN MISSOURI

3. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE AT LOUISIANA (by C. W. Williams in 1953-36)

U.S.C.E. B.M. designated "23 A"
Louisiana, on U.S. Highway 51, in top of right upstream abutment of bridge over Mississippi River; standard tablet (set by water-resources branch of U.S. Geol. Survey)

Feet
480.982
533.603

4. FROM LOUISIANA NORTH AND WEST ALONG COUNTY ROUTE T TO SEC. 7, T. 51 N., R. 2 W.; THEREFROM WEST ALONG LOUISIANA-FRANKFORD ROAD INTO VANDALIA QUADRANGLE AT SEC. 4, T. 51 N., R. 3 W. (by C. W. Williams in 1935)

U.S.C. & G.S. standard disk stamped "G 137 1935"
U.S.C. & G.S. standard disk stamped "B 137 1935"
Louisiana, Seventh Street at Frankford Road, on W. corner of sidewalk; painted square

Louisiana, 125 ft. E. of W. city limit, N. of rd., in root on S. side of 30-in. elm tree; copper nail and washer
Louisiana, 1-5 mi. NW. of, at entrance to dwelling of J. C. McCormack, on floor before front door; small wooden block; painted square
Louisiana triangulation sta.; U.S.C. & G.S. standard disk designated "Louisiana 1931"

Louisiana, 2 mi. NW. of, in front yard of Mrs. W. P. Betwor, in root on SW. side of 24-in. locust tree; nail
Louisiana, 2.6 mi. NW. of, in NE 1/4 sec. 11, T. 51 N., R. 2 W., on top of abutment at SW. corner of bridge 5-242 over Dry Fork Creek; chiseled square

T. 51 N., R. 2 W., in NW 1/4 sec. 11, 25 ft. N. of highway, in S. side of 16-in. walnut tree; crossed nails
Louisiana, 3 mi. NW. of, in NE 1/4 sec. 10, T. 51 N., R. 2 W., 35 ft. N. and 50 ft. E. of junction of rd. W., in concrete post; standard tablet stamped "1835 E R A 1935"
Reference mark, about 525 ft. N. 70° E. of tablet, at SW. corner of bridge 8-503 over Grass Creek, in top of abutment; bolt

T. 51 N., R. 2 W., in E 1/2 sec. 10, junction of rd. S.; surface of highway

T. 51 N., R. 2 W., in NE 1/4 sec. 9, in front of large, two-story dwelling, in root on SW. side of 30-in. walnut tree; copper nail and washer
T. 51 N., R. 2 W., near center sec. 9, junction of rd. S.; surface of highway

T. 51 N., R. 2 W., in E 1/2 sec. 8; about 500 ft. W. of two-story dwelling of Mrs. Nalley, about 100 ft. from highway, in pasture, on root 30-in. elm tree; copper nail and washer
Fairview Church, quarter cor. between secs. 7 and 8, T. 51 N., R. 2 W., 55 ft. N. of junction of rd. S.; 3 ft. SW. of church, in root in concrete post; standard tablet stamped "1834 E R A 1935"
Reference mark, 200 ft. E. of tablet, in root on SE. side of 20-in. elm tree; copper nail and washer

T. 51 N., R. 2 W., in sec. 7, in front of dwelling of Jim Travis, 18 ft. S. of rd.; in root on NB. side of 24-in. walnut tree; nail
T. 51 N., Rs. 2 and 3 W., on line between secs. 7 and 12, 20 ft. N. and 25 ft. E. from junction of rd. at range line, in root on NW. side of 30-in. elm tree; copper nail and washer

T. 51 N., R. 3 W., in SW 1/4 sec. 12, 15 ft. N. and 130 ft. E. (?) W. from crossroad, in root on S. side of 16-in. elm tree; nail
Fairview Church, quarter cor. between secs. 7 and 8, T. 51 N., R. 2 W., 55 ft. N. of junction of rd. S.; 3 ft. SW. of church, in root in concrete post; standard tablet stamped "1834 E R A 1935"
Reference mark, 200 ft. E. of tablet, in root on SE. side of 20-in. elm tree; copper nail and washer

Sugar Creek Church, in NW 1/4 sec. 11, T. 51 N., R. 3 W., 100 ft. N. of rd., 2 ft. W. of W. end of concrete steps of church, in concrete post; standard tablet stamped "1835 E R A 1935"
Reference mark, 200 ft. E. of tablet, in root on SE. side of 20-in. elm tree; copper nail and washer

Dwelling of Ed Fisher, in front of, 25 ft. S. of rd., in root on N. side of 30-in. burr oak tree; copper nail and washer

(Continued in Vandalia quadrangle; see line 1.)
PART 6, NORTHEASTERN MISSOURI, 1896-1956

5. FROM BARRY QUADRANGLE AT SEC. 31, T. 55 N., R. 2 W., SOUTH TO SEC. 6, T. 54 N., R. 2 W. (by C. W. Williams in 1955)

(Continued from Barry quadrangle; see line 1.)

T. 55 N., R. 2 W., in sec. 31, at bridge over Sugar Creek Slough, on NE. abutment; chiseled cross
T. 44 1/4 N., R. 2 W., in SW 1/4 sec. 31, 38 ft. S. and 27 ft. E. from County Route T at rd. N. to Ashburn, in concrete post; standard tablet stamped "T T 25 C 1955"

County Route T at rd. N.; surface of highway
T. 54 N., R. 2 W., in NE. cor. sec. 6, at curve in County Route T from S.-W., on SW. head wall of concrete culvert; chiseled square
T. 54 N., R. 2 W., in sec. 6, 16th cor. between secs. 5 and 6, County Route T at rd. E.; surface of highway
T. 54 N., R. 2 W., S. sixteenth cor. between secs. 5 and 6, at bottom of first hill N. of churches, on W. head wall of concrete culvert; chiseled square
Top of first hill N. of churches, 30 ft. E. of County Route T, in root on W. side of 20-in. white-oak tree; spike


T. 55 N., R. 5 W., quarter cor. between secs. 33 and 34, 183 ft. N. and 15 ft. W. from T-rd. N., in root on NW. side of 50-in. elm tree; copper nail and washer

(Continued in Barry quadrangle; see line 3.)

7. FROM VANDALIA QUADRANGLE SOUTH ALONG U.S. HIGHWAY 61 TO BOWLING GREEN, THENCE ALONG COUNTY ROUTE A (NOW STATE HIGHWAY 29) TO ASHLEY AND INTO SILEX QUADRANGLE, THENCE EAST AND NORTHEAST ALONG ROADS TO POINT ABOUT 1 MILE SOUTH OF EDGEWOOD, INCLUDING THAT PART OF THE LINE IN SILEX QUADRANGLE (by C. W. Williams in 1935-36 and Cornish Beck in 1936)

(Continued from Vandalia quadrangle; see line 2.)

Bowling Green, about 5.5 mi. NW. of, 125 ft. upstream from bridge over East Fork of Peno Creek, in top of right end of downstream head wall of concrete culvert; standard tablet (set by water-resources branch of U.S. Geol. Survey)
Bowling Green, 4.6 mi. NW. of, 109 ft. E. of highway, 2 ft. N. and 12 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 26 C 1935"
Bowling Green, about 3.7 mi. NW. of, 50 ft. S. and 13 ft. E. from junction of rd. W., at entrance to field, on S. end of pipe culvert; painted square
Crossroad, 50 ft. N. and 10 ft. E. from, on head wall of culvert; chiseled square
Bowling Green, about 1.3 mi. NW. of, 0.7 mi. NE. of intersection of U.S. Highway 51, 20 ft. N. and 50 ft. E. from crossroad, in corner fence post; nail
Bowling Green, 1.2 mi. NW. of, 80 ft. N. and 30 ft. E. from intersection of U.S. Highway 54, in concrete post; standard tablet stamped "T T 25 C 1955"
Bowling Green, 1 mi. S. of, 36 ft. S. and 35 ft. E. from junction of County Route A (now State Highway 29), in concrete post; standard tablet stamped "T 24 C 1955"
Bowling Green, 2 mi. S. of, 20 ft. N. and 20 ft. E. from junction of rd. W., in root on N. side of 28-in. catalpa tree; copper nail and washer
Junction of rd. W., 45 ft. S. and 40 ft. W. from, in root on SB. side of 40-in. maple tree; nail
Bowling Green, 2.5 mi. S. of, 7 ft. N. and 21 ft. W. from junction of rd. W., on N. end of concrete pipe culvert; chiseled square
Junction of rd. E., 23 ft. N. and 18 ft. W. from, in telephone pole; nail
St. Clement, 0.6 mi. N. of, 83 ft. N. and 20 ft. W. from junction of rd. W., 26 ft. N. and 6 ft. E. from fence corner, in concrete post; standard tablet stamped "T 25 C 1955"
St. Clement, 0.6 mi. S. of, 60 ft. N. and 50 ft. W. from NW. corner of dwelling, at entrance, on N. end of iron pipe culvert; painted square
Ashley, at N. limits of, 12 ft. S. and 21 ft. W. from crossroad, on S. end of pipe culvert; painted square
Ashley, at E. limits of, 30 ft. N. and 15 ft. W. from cross streets, 2 ft. E. of SE. corner of fence, in concrete post; standard tablet stamped "T 10 Sta No 57 F 1928"
T-rd. SW., 165 ft. SE. of, 18 ft. SW. of rd., on NE. corner of retaining wall; chiseled square
Ashley, 1.4 mi. SE. of, on W. wing wall of bridge; chiseled square
Ashley, 1.7 mi. SE. of, near S. corner of land grant, 75 ft. E. of gravel rd. at turn, 15 ft. S. of rd. NE., in N. side of gatepost; bent nail
Ashley, about 3.5 mi. SE. of, near prominent center sec. 31, 31 ft. N. R. 2 W., 200 ft. E. of West Fork of Sulphur Creek, 600 ft. W. of dwelling, N. of abandoned rd. at curve, in fence line, in notch on S. side of 42-in. elm tree; bent nail

741
T. 52 N., R. 2 W., cor. secs. 29, 30, 31, and 32, 50 ft. E. of T-rd. N., on NW. corner of head wall of culvert; chiseled square.

Pleasant Grove School, 50 ft. S. and 75 ft. W. from SW. corner of, in root on N. side of 28-in. locust tree; bent nail.
T. 52 N., R. 2 W., near cor. secs. 28, 29, 32, and 33, on SE. wing wall of bridge; chiseled square.

T. 52 N., R. 2 W., on line between secs. 28 and 33, 30 ft. N. and 6 ft. E. from crossroads, on head wall of culvert; chiseled square.

T. 52 N., R. 2 W., about 0.1 mi. N. of center sec. 28, 100 ft. N. of gate to yard of dwelling, in root on W. side of 6-in. catalpa tree; copper nail and washer.

T. 52 N., R. 2 W., near center sec. 21, 20 ft. S. and 25 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T Sta No 55 P 1928".

Creek at abandoned rd., 5 ft. S. and 60 ft. E. from, in root on S. side of 36-in. elm tree; nail.

T. 52 N., R. 2 W., near center sec. 22, 30 ft. N. and 10 ft. E. from abandoned rd. at N.-S. fences, in root on S. side of 24-in. post-oak tree; copper nail and washer.

Creek, at ford, 15 ft. S. and 15 ft. E. from, in SE. side of 7-in. elm tree; nail.


Edgewood, 0.5 mi. S. of, 2.1 mi. SE. of Cyrene, along U.S. Highway 61, 42 ft. W. and 48 ft. E. from crossroad, in concrete post; standard tablet stamped "T T Sta No 54 P 1928".

U.S.C. & G.S. standard disk stamped "U 156 1935".

8. FROM ASHLEY SOUTHWEST ALONG STATE HIGHWAY 29 INTO HELLPAPER QUADRANGLE (by Cornish Beck in 1936)

Ashley, 0.8 mi. SW. of, 615 ft. NE. of junction of rd. SE., 40 ft. NW. of highway, 6 ft. NE. of private entrance, on concrete base of gatepost; chiseled square (in Silex quadrangle; see Bull. 898-C, p.445).

(Continued in Vandalia quadrangle; see line 3.)

For additional level lines along Mississippi River, Alton R.R. and U.S. Highway 61, refer to United States Coast and Geodetic Survey first-order line, Savanna to Grafton, Ill.; and second-order lines, Louisiana to Mexico and Wentzville to Bowling Green.
1. FROM BOWLING GREEN QUADRANGLE WEST ALONG FRANKFORD-LOUISIANA ROAD TO FRANKFORD, THENCE WEST ALONG ROADS INTO HANNIBAL QUADRANGLE AT SEC. 2, T. 54 N., R. 5 W. (by C. W. Williams in 1934-35) (Continued from Bowling Green quadrangle; see line 4.)

T. 54 N., R. 3 W., in SE 1/4 sec. 5, 100 ft. S. and 15 ft. E. from junction of rd. S., in root on E. side of 34-in. wild-cherry tree; copper nail and washer

T. 54 N., R. 3 W., near quarter cor. between secs. 5 and 6, 27 ft. S. and 200 ft. E. from crossroad, 80 ft. E. of NE. corner of farmhouse, in concrete post; standard tablet stamped "1836 ERA 1935" Reference mark, 60 ft. S. and 100 ft. W. from tablet, in root on N. side of 24-in. elm tree; copper nail and washer

T. 54 N., R. 3 W., on line between secs. 1 and 6, 15 ft. S. and 150 ft. E. from junction of range line rd., in root on NE. side of 30-in. burr-oak tree; copper nail and washer

Frankford, 0.5 mi. S. of, on U.S. Highway 61, in NE 1/4 sec. 2, T. 54 N., R. 4 W., 125 ft. S. and 50 ft. E. from junction of Frankford-Louisiana rd., in concrete post; standard tablet stamped "1837 ERA 1935" Reference mark, 120 ft. N. of tablet, on N. head wall of concrete culvert; chiseled square

Frankford, at NW. corner of post office, on sidewalk; chiseled square

Tps. 54 and 55 N., R. 4 W., near S. sixteenth cor. between secs. 3 and 34, 55 ft. S. and 10 ft. W. from T-rd. S., in root on S. side of 12-in. elm tree; copper nail and washer

Tps. 54 and 55 N., R. 4 W., near S. sixteenth cor. between secs. 5 and 32, 25 ft. S. and 15 ft. E. from crossroad, in root on NE. side of 30-in. hickory tree; copper nail and washer

T. 54 N., R. 4 W., near S. sixteenth cor. between secs. 5 and 32, 25 ft. S. and 15 ft. E. from crossroad, in root on NE. side of 30-in. black-oak tree; copper nail and washer

T. 54 N., R. 4 W., in NE 1/4 sec. 1, 95 ft. E. of E. face of farmhouse, 15 ft. N. of rd., in root on N. side of 40-in. burr-oak tree; copper nail and washer

(Continued in Hannibal quadrangle; see line 6.)

2. FROM FRANKFORD SOUTHEAST ALONG U.S. HIGHWAY 61 INTO BOWLING GREEN QUADRANGLE (by C. W. Williams in 1934-35 and Cornish Beck in 1936)

Frankford, 1 mi. SE. of, at bridge over Peno Creek, in top of upstream end of S. pier of steel truss; standard tablet (set by water-resources branch of U.S. Geol. Survey) 545.009

Junction of rd. SE., 35 ft. N. and 40 ft. W. from, on NW. head wall of concrete culvert; chiseled square 558.78
3. FROM SILEX QUADRANGLE WEST ALONG SOUTH BORDER INTO WELLSVILLE QUADRANGLE, INCLUDING THAT PART OF THE LINE IN BELLFLOWER QUADRANGLE (by Cornish Beck in 1956)

(Continued from Bowling Green quadrangle; see line 8.)

Ashley, 1.0 mi. SW. of, along State Highway 29, in sec. 29, T. 52 N., R. 3 W., in NW. wing wall of bridge; metal disk (Mo. State Highway S.W.)

State Highway 29 at crossroad, 1/2 mi. E. of, on N. end of bridge; painted square

Steel bridge, in NW. wing wall; top of S. bent rod

T-rd. E., 10 ft. N. and 45 ft. E. from, in S. side of 20-in. white-oak tree; bent nail

Farmer, 0.5 mi. S. of, quarter cor. between secs. 25 and 26, T. 52 N., R. 3 W., 20 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 66 F 1926"

Crossroads, 13 ft. N. and 15 ft. E. from, on cover of wing wall of concrete culvert; chiseled square

Farmer, about 1 mi. S. and 1 mi. E. from, in SW 1/4 sec. 30, T. 52 N., R. 3 W., 1/2 mile of bottom step of Siloam Church; chiseled square

T-rd. E., 15 ft. S. and 30 ft. E. from, in root on S. side of 24-in. post-oak tree; bent nail

Bowling 0.5 mi. S. of, quarter cor. between secs. 25 and 26, T. 52 N., R. 3 W., 20 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 66 F 1926"

Vannoy School, at flagpole; top of base

Farmer, about 0.9 mi. S. and 0.9 mi. W. from, in SW 1/4 sec. 26, T. 52 N., R. 3 W., on top of N. rivet of NW. pier of bridge over Indian Creek; chiseled cross

T-rd. E., 15 ft. S. and 35 ft. E. from, in N. side of peach tree; bent nail

Estes, about 1.5 mi. E. of, quarter cor. between secs. 35 and 36, T. 52 N., R. 3 W., 21 ft. S. and 10 ft. W. from crossroads, on W. head wall of culvert; chiseled square

Estes, 1 mi. E. of, near center sec. 33, T. 52 N., R. 4 W., 20 ft. S. of T-rd. N., 3 ft. W. of SE. corner of yard fence, in concrete post; standard tablet stamped "T T Sta No 66 F 1926"

Estes, 12 ft. N. and 15 ft. W. from crossroads, on N. end of iron pipe culvert; painted square

T-rd. E., NE. of, on concrete base of corner post; chiseled square

Estes, about 0.2 mi. N. and 0.5 mi. W. from, near E. sixteenth cor. between secs. 34 and 35, T. 52 N., R. 4 W., 12 ft. S. and 13 ft. W. from T-rd. W., on head wall of culvert; chiseled square

Estes, about 0.2 mi. N. and 1.5 mi. W. from, near E. sixteenth cor. between secs. 34 and 35, T. 52 N., R. 4 and 5 W., 25 ft. S. and 23 ft. W. from T-rd. E., on head wall of culvert; chiseled square

Estes, 1 mi. N. and 1.5 mi. W. from, approximate quarter cor. between secs. 25 and 30, T. 52 N., R. 1/2 W., R. 4 and 5 W., 25 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 65 F 1926"

Estes, about 1 mi. N. and 2.3 mi. W. from, in W 1/2 sec. 25, T. 52 N., R. 5 W., 30 ft. E. of T-rd. N., on NW. corner of curb of bridge; chiseled square

Estes, 1 mi. E. of, near center sec. 33, T. 52 N., R. 4 W., 20 ft. S. of T-rd. N., 3 ft. W. of SE. corner of yard fence, in concrete post; standard tablet stamped "T T Sta No 66 F 1926"

Estes, 12 ft. N. and 15 ft. W. from crossroads, on N. end of iron pipe culvert; painted square

T-rd. E., SE. of, on concrete base of corner post; chiseled square

Estes, about 0.2 mi. N. and 0.5 mi. W. from, near E. sixteenth cor. between secs. 34 and 35, T. 52 N., R. 4 W., 12 ft. S. and 13 ft. W. from T-rd. W., on head wall of culvert; chiseled square

Estes, about 0.2 mi. N. and 1.5 mi. W. from, near E. sixteenth cor. between secs. 34 and 35, T. 52 N., R. 4 and 5 W., 25 ft. S. and 23 ft. W. from T-rd. E., on head wall of culvert; chiseled square

Estes, 1 mi. N. and 1.5 mi. W. from, approximate quarter cor. between secs. 25 and 30, T. 52 N., R. 1/2 W., R. 4 and 5 W., 25 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 65 F 1926"

Estes, about 1 mi. N. and 2.3 mi. W. from, in W 1/2 sec. 25, T. 52 N., R. 5 W., 30 ft. E. of T-rd. N., on NW. corner of curb of bridge; chiseled square

Estes, 1 mi. E. of, near center sec. 33, T. 52 N., R. 4 W., 20 ft. S. of T-rd. N., 3 ft. W. of SE. corner of yard fence, in concrete post; standard tablet stamped "T T Sta No 66 F 1926"

Estes, 12 ft. N. and 15 ft. W. from crossroads, on N. end of iron pipe culvert; painted square

T-rd. E., NE. of, on concrete base of corner post; chiseled square

Estes, about 0.2 mi. N. and 0.5 mi. W. from, near E. sixteenth cor. between secs. 34 and 35, T. 52 N., R. 4 W., 12 ft. S. and 13 ft. W. from T-rd. W., on head wall of culvert; chiseled square

Estes, about 0.2 mi. N. and 1.5 mi. W. from, near E. sixteenth cor. between secs. 34 and 35, T. 52 N., R. 4 and 5 W., 25 ft. S. and 23 ft. W. from T-rd. E., on head wall of culvert; chiseled square

Estes, 1 mi. N. and 1.5 mi. W. from, approximate quarter cor. between secs. 25 and 30, T. 52 N., R. 1/2 W., R. 4 and 5 W., 25 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 65 F 1926"
PART 6, NORTHEASTERN MISSOURI, 1896-1938

T. 52 N., R. 5 W., cor. secs. 29, 30, 31, and 32, 10 ft. N. and 25 ft. W. from crossroads, on N. end of iron pipe culvert; painted square

(Continued in Farber quadrangle; see line 7.)

4. FROM BELLFLOWER QUADRANGLE AT SEC. 29, T. 52 N., R. 5 W., NORTH TO VANDALIA ALONG COUNTY ROUTE T, THENCE NORTH ALONG COUNTY ROUTE F TO SEC. 20, T. 53 N., R. 5 W., THENCE NORTH ALONG ROADS INTO FARBER QUADRANGLE ABOUT 1 MILE NORTHWEST OF MADISONVILLE (by Cornish Beck in 1936)

T. 52 N., R. 5 W., cor. secs. 20, 21, 28, and 29, 16 ft. S. and 15 ft. E. from crossroad, on head wall of concrete culvert; chiseled square

779.12

T. 52 N., R. 5 W., cor. secs. 16, 17, 20, and 21, 12 ft. S. and 20 ft. W. from crossroad, on S. edge of pipe culvert; painted square

764.12

Vandalia, about 1 mi. S. of, cor. secs. 9, 10, 16, and 17, T. 52 N., R. 5 W., 33 ft. S. and 39 ft. W. from crossroad, in concrete post; standard tablet stamped "T T 28 C 1935" (covered by driveway construction)

758.280

Reference mark, 64 ft. S. and 12 ft. E. from tablet, in root on NW. side of 12-in. cedar tree; copper nail and washer

759.09

Rd. fork N., on N. end of culvert; chiseled square

765.806

U.S.C. & G.S. standard disk stamped "V 137 1935"

755.327

T. 53 N., R. 5 W., cor. secs. 28, 29, 32, and 33, 15 ft. S. of T-rd. N., in NW. side of telephone pole; nail

750.93


761.72


760.28

T. 53 N., R. 5 W., cor. secs. 9, 10, 16, and 17, 23 ft. S. and 25 ft. W. from T-rd. S., in NW. side of hedge telephone pole; nail

763.97

T. 53 N., R. 5 W., near quarter cor. between secs. 8 and 17, 14 ft. S. and 15 ft. W. from T-rd. E., in concrete post; standard tablet stamped "T T 15 C 1935"

754.622


755.327

T. 53 N., R. 5 W., cor. secs. 28, 29, 32, and 33, 15 ft. S. of T-rd. N., in NW. side of telephone pole; nail

750.93


761.72


760.28

T. 53 N., R. 5 W., cor. secs. 9, 10, 16, and 17, 23 ft. S. and 25 ft. W. from T-rd. S., in NW. side of hedge telephone pole; nail

763.97

T. 53 N., R. 5 W., near quarter cor. between secs. 8 and 17, 14 ft. S. and 15 ft. W. from T-rd. E., in concrete post; standard tablet stamped "T T 15 C 1935"

754.622

(For balance in Farber quadrangle, see line 4.)

T. 54 N., R. 5 W., in NE 1/4 sec. 19; on SW. wing wall of bridge over Spencer Creek; chiseled square

582.96

Madisonville, at T-rd. S., in N. side of telephone pole; nail

588.42

(Continued in Farber quadrangle; see line 4.)

For an additional level line along Alton R.R., refer to United States Coast and Geodetic Survey second-order line; Louisiana to Mexico.
1. FROM KAHOKA QUADRANGLE SOUTHEAST ALONG U.S. HIGHWAY 61 TO ALEXANDRIA (by B. A. Barnes in 1936)

(Continued from Kahoka quadrangle; see line 2.)

T. 64 N., R. 6 W., in NE 1/4 sec. 1, 45 ft. N. and 81 ft. W. from N.-S. crossroad, in root on N. side of 1/4-in. elm tree; copper nail and washer

T. 64 N., R. 5 W., in SW 1/4 sec. 6, 165 ft. SE. of junction of private lane S., 21 ft. W. of drainage ditch, S. of highway, on center of concrete head wall of culvert; chiseled square

Alexandria, at N. limits of, 350 ft. W. of junction of rd. E., at center on N. head wall of concrete culvert; chiseled square

Alexandria, 42 ft. N. and 45 ft. W. from intersection of Walnut and Market Streets, at SE. corner of schoolyard, in concrete post; standard tablet stamped "1522 ERA 1935"

U.S.C.&G.S. B.W. designated "1522 K 109"

Copper bolt
Top of cap

For an additional level line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, Savanna to Grafton, Ill.

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*The greater part of this quadrangle lies in Illinois and Iowa.
1. FROM KAHOKA QUADRANGLE NORTH ALONG STATE HIGHWAY 81 INTO KEOSAUQUA QUADRANGLE (by B. A. Barnes in 1936)  
(Continued from Kahoka quadrangle; see line 4.)

Kahoka, 6 mi. N. of, 0.3 mi. S. of junction of County Route 6, 2 ft. S. and 37 ft. E. from junction of rd. E., 2 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 91 C 1936."

T. 66 N., R. 8 W., near quarter cor. between ses. 13 and 24, 30 ft. S. and 36 ft. E. from crossroad, in root on NW. side of 34-in. maple tree; copper nail and washer

T. 66 N., R. 8 W., near quarter cor. between ses. 12 and 13, 15 ft. S. and 27 ft. W. from crossroad, on center of S. head wall of concrete culvert; chiseled square

Kahoka, 8.3 mi. N. of, 0.1 mi. W. of center sec. 12, T. 66 N., R. 8 W., 24 ft. S. and 80 ft. E. from E.-W. crossroad, 7 ft. S. of fence corner, in concrete post; standard tablet stamped "T T 93 C 1936."

T. 66 N., R. 8 W., in SE 1/4 sec. 2, 20 ft. W. of highway, in center of W. head wall of concrete culvert; iron pin

T. 67 N., R. 8 W., in sec. 2, 15 ft. S. and 27 ft. E. from junction of rd. E., on center of S. head wall of concrete culvert; chiseled square

T. 67 N., R. 8 W., in SW 1/4 sec. 3; at junction of rd. SW., surface of highway

(Continued in Keosauqua quadrangle; see line 1.)


(Continued from Keosauqua quadrangle; see line 2.)

T. 66 N., R. 8 W., near center cor. between ses. 23 and 24, 210 ft. N. of T-rd. E., 100 ft. S. of rd. corner from S.-W., 25 ft. W. of rd., in root on E. side of 34-in. white-oak tree; copper nail and washer

County Route 6, 25 ft. S. of, about 300 ft. N. of farmhouse, in root on N. side of 25-in. maple tree; crossed nails

Peaksville, 0.5 mi. W. of, along County Route C, 150 ft. N. and 60 ft. W. from junction of rd. S., 30 ft. SW. of SW. corner of farmhouse, in root on S. side of 36-in. maple tree; copper nail and washer

Peaksville, near crossroad, 10 ft. S. of County Route C, opposite Richey's store, in root on N. side of 34-in. locust tree; copper nail and washer

(Continued in Kahoka quadrangle; see line 5.)

For an additional level line along Atchison, Topeka & Santa Fe Ry., refer to United States Coast and Geodetic Survey second-order line, Hurdland, Mo., to Fort Madison, Iowa.

*The greater part of this quadrangle lies in Iowa.
KAHOKA QUADRANGLE
(Latitude 40°15' - 40°30'; longitude 91°30' - 91°45')
Clark and Lewis Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1900)

T. 65 N., R. 6 W., in W 1/2 sec. 1, in SE. corner of stone foundation of schoo1house; standard tablet stamped "556 A"

T. 64 N., R. 6 W., in SW 1/4 sec. 8, at crossroad; surface of highway; standard tablet stamped "696 A"

Antioch, in SW 1/4 sec. 20, T. 64 N., R. 7 W., in NW. corner of store building; standard tablet stamped "698 A"

Kahoka, in front of Chicago, Burlington & Quincy R.R. sta., top of rail; chiseled square 697.887

2. FROM WYACONDA QUADRANGLE EAST ALONG STATE HIGHWAY 1; TO WAYLAND, THENCE EAST ALONG U.S. HIGHWAY 61 INTO KEOKUK QUADRANGLE (by B. A. Barnes in 1936)

(Continued from Wyaconda quadrangle; see line 3.)

Wayland, 1 mi. N. of, 21 ft. N. and 27 ft. W. from junction of rd. N., on center of W. head wall of concrete culvert; chiseled square 597.69

Wayland, about 1 mi. E. of, 15 ft. N. and 75 ft. E. from junction of rd. N., 15 ft. N. and 12 ft. W. from junction of rd. S., on center of W. head wall of concrete culvert; chiseled square 598.07

A small part of this quadrangle lies in Iowa.

Accuracy doubtful because of insufficient connections.
Wayland, about 3 mi. E. of, 35 ft. NE. of curve in highway from W.-SE., in concrete post; standard tablet stamped "1921 E R A 1935"
Concrete culvert near Jenkins School, on W. head wall of; chiseled square
Crossroad; surface of highway

(Continued in Keokuk quadrangle; see line 1.)

3. FROM WAYLAND SOUTH ALONG U.S. HIGHWAY 61 INTO CANTON QUADRANGLE
(by B. A. Barnes in 1936)

T. 61 N., R. 6 W., in NE 1/4 sec. 6, 100 ft. S. and 24 ft. W. from junction of rd. W., on center of W. head wall of concrete culvert; chiseled square
Concrete culvert near Jenklns School, on W. head wall of; chiseled square
Crossroad; surface of highway

(Continued in Canton quadrangle; see line 5.)
750 SPIRIT LEVELING IN MISSOURI

6. FROM CANTON QUADRANGLE, NEAR ST. PATRICK, EAST INTO KEOKUK QUADRANGLE AT SEC. 12, T. 65 N., R. 6 W. (by F. Y. Brown in 1937)

(Continued from Canton quadrangle; see line 8.)

St. Patrick, 1 mi. S. of, along County Route T, in SW 1/4 sec. 13, T. 65 N., R. 6 W., 160 ft. W. of rd. W., 15 ft. N. of rd., in root on N. side of 6-in. cedar tree; iron nail and washer

665.18

(For balance in Canton quadrangle; see line 8.)

Chicago, Burlington & Quincy R.R. at rd. crossing, 10 ft. N. and 60 ft. E. from, on top of U.S.C.E. gaging sta. 3; iron pipe 14.81

575

7. FROM WYACONDA QUADRANGLE AT SEC. 23, T. 64 N., R. 8 W., EAST THROUGH ANTIOCH TO POINT ABOUT 2.5 MILES SOUTH OF WAYLAND (by F. Y. Brown in 1937)

(Continued from Wyaconda quadrangle; see line 6.)


605.511

Reference mark 1, 90 ft. N. and 150 ft. E. from rd. corner S.-E., in root on S. side of 18-in. elm tree; crossed nails

586.07

Reference mark 2, 55 ft. NE. of reference mark 1, in root on W. side of 36-in. elm tree; crossed nails

588.28

T. 64 N., R. 8 W., in SW 1/4 sec. 25, on S. pier at W. end of bridge over Wyaconda River, on top of bolt head; chiseled square

587.71


600.22

County Route T, 20 ft. S. of, on center of S. head wall of concrete culvert; chiseled square

616.94

T. 64 N., R. 7 W., on line between secs. 20 and 29, 110 ft. S. and 10 ft. W. from T-rd. N., in root on N. side of 12-in. wild-cherry tree; copper nail and washer

669.66

T. 64 N., R. 7 W., cor. secs. 20, 21, 26, and 29, 15 ft. S. and 130 ft. W. from T-rd. N., in root on S. side of 14-in. wild-cherry tree; copper nail and washer

678.30

T. 64 N., R. 7 W., on line between secs. 21 and 28, on left side of entrance gate to barn on farm of Louis Stutz, 20 ft. S. of rd., in root on N. side of 6-in. hedge tree; crossed nails

689.21
T. 64 N., R. 7 W., near cor. sec. 21, 22, 27, and 28, 440 ft. E. of T-rd. S., 15 ft. S. of rd., on S. end of E. abutment of steel and concrete bridge over Honey Creek; chiseled square 597.62

T. 64 N., R. 7 W., near quarter cor. between sec. 22 and 27, 300 ft. N. of rd. corner from sec. 22, 60 ft. S. of T-rd. E., 20 ft. E. of rd., in root on N. side of 22-in. elm tree; copper nail and washer 635.70


T. 64 N., R. 7 W., near center sec. 23, 360 ft. S. of crossroads, 40 ft. E. of rd., in root on S. side of 18-in. cedar tree; copper nail and washer 667.18

T. 64 N., R. 7 W., near quarter cor. between sec. 23 and 28, 130 ft. W. of T-rd. N., 80 ft. N. of rd., on top of SE. corner of concrete well top; chiseled square 646.76


Dukes triangulation sta.; U.S.C. & G.S. standard disk stamped "Dukes 1931" 695.033

U.S.C. & G.S. standard reference disk stamped "Dukes No 1" 671.881

U.S.C. & G.S. standard reference disk stamped "Dukes No 2" 693.732

T. 65 N., R. 8 W., in N 1/2 sec. 16, 15 ft. N. of rd., 50 ft. E. of N.-S. fence, in root on S. side of 18-in. post-oak tree; copper nail and washer 663.93

T. 65 N., R. 6 W., in N 1/2 sec. 18, on S. pier at W. end of steel bridge over Sugar Creek, on top of bolt head; chiseled cross 521.90

8. FROM POINT 0.6 MILE WEST OF KAHOKA, SOUTH INTO WYAÇONDA QUADRANGLE AT SEC. 2, T. 65 N., R. 8 W. (by F. Y. Brown in 1937)

Concrete culvert, on N. end of W. head wall; chiseled square 680.99

Concrete culvert, on S. end of W. head wall; chiseled square 681.11

Concrete culvert, on N. end of W. head wall; chiseled square 687.380

Concrete culvert, on N. end of W. head wall; chiseled square 668.49

(Continued in Wyaconda quadrangle; see line 5.)

For an additional level line along Atchison, Topeka & Santa Fe Ry., refer to United States Coast and Geodetic Survey second-order line, Hurdland, Mo. to Fort Madison, Iowa.
SPIRIT LEVELING IN MISSOURI

CANTON QUADRANGLE
(Latitude 40°00' - 40°15'; longitude 91°30' - 91°55')

Clark and Lewis Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1900)

Weber, in NE 1/4 sec. 7, T. 60 N., R. 6 W., on E. side of large brick dwelling of J. W. Willows (commonly known as old Tate place), in stone foundation; standard tablet stamped "615 A"

Ewing, in SE 1/4 sec. 7, T. 60 N., R. 7 W., in E. face of stone foundation of Reformed Lutheran Church; standard tablet stamped "687 A"

T. 61 N., R. 6 W., in SE 1/4 sec. 29, on E. side of large brick dwelling owned by Eliza O'Leary, in stone casing over cellar window; standard tablet stamped "614.0 A"

T. 62 N., R. 6 W., near NW. cor. sec. 29, at NW. corner of yard of M. L. Spalding; iron post stamped "637 A"

Derrahs, in SW 1/4 sec. 27, T. 61 N., R. 7 W., in fence corner SE. of schoolhouse; iron post stamped "608 A"

Bunker Hill, in E 1/2 sec. 11, T. 62 N., R. 8 W., at SE. corner of front yard of George Nelson; iron post stamped "701 A"

2. FROM La BELLE QUADRANGLE EAST ALONG STATE HIGHWAY 96, THROUGH MONTICELLO TO CANTON, THENCE SOUTH ALONG U.S. HIGHWAY 61 THROUGH LA GRANGE INTO PALMYRA QUADRANGLE (by A. R. Friend in 1936)

(Continued from La Belle quadrangle; see line 2.)

Lewistown, about 1.2 mi. E. of, on concrete abutment at SW. corner of bridge over Middle Fabius River; chiseled square

Monticello, about 1 mi. S. of, 50 ft. N. and 65 ft. W. from Junction of rd. S., on base of concrete gatpost; chiseled square

Monticello, l0 ft. N. of S. limits of, 1/0 ft. E. of highway, in concrete post; standard tablet stamped "11/29 C.W.A. 1936"

Monticello, at N. limits of, at Junction of County Route A and rd. W., on top of N. head wall of concrete culvert; chiseled square

Monticello, about 1.2 mi. E. of, on S. head wall of concrete culvert; chiseled square

Monticello, about 2.2 mi. E. of, at N.-S. crossroad, on S. head wall of concrete culvert; chiseled square

Monticello, 3-2 mi. E. of, 35 ft. N. of highway, 25 ft. E. of driveway, 100 ft. S. of dwelling, in concrete post; standard tablet stamped "11/30 C.W.A. 1936"

Monticello, about 4.1 mi. E. of, 20 ft. N. and 10 ft. E. from junction of rd. N., on top of W. end of concrete pipe culvert; chiseled square

Monticello, about 5.4 mi. E. of, on top of masonry at SW. corner of bridge over Sugar Creek; chiseled square

Monticello, 6.4 mi. E. of, along State Highway 96, 30 ft. N. and 25 ft. W. from crossroad, in concrete post; standard tablet stamped "11/31 C.W.A. 1936"

Monticello, about 7.5 mi. E. of, 12 ft. N. of junction of rd. N., on N. head wall of concrete culvert; chiseled square

Canton, about 2 mi. W. of, about 8 mi. E. of Monticello, at NW. corner of bridge over Wyaconda River, on top of first pier; chiseled square

Canton, about 1.5 mi. W. of, 25 ft. S. and 37 ft. E. from junction of rd. E., in base of corner fence post; copper nail and washer

*A narrow strip along the eastern border of this quadrangle lies in Illinois.

**Accuracy doubtful because of insufficient connections.
Canton, at W. limits of, 15 ft. S. and 49 ft. W. from junction of State Highway 96 and County Route T, in concrete post; standard tablet stamped "1133 C W A 1955"

Concrete bridge, on NE. wing wall; chiseled square

Canton, 1 mi. S. of, 60 ft. E. of junction of rd. W., 1 ft. W. of corner fence post, in concrete post; standard tablet stamped "1133 C W A 1955" 597.95

Canton, about 2 mi. S. of, at junction of rd. W., on W. head wall of concrete culvert; chiseled square

Junction of private rd. W., on W. head wall of concrete culvert; chiseled square

La Grange, 1 mi. N. of, 20 ft. S. and 40 ft. E. from crossroad, in concrete post; standard tablet stamped "1134 C W A 1935"

La Orange, about 0.5 mi. S. of, on NW. corner of abutment of bridge over Wyeconda River; chiseled square

La Orange, at N. limits of, at junction of rd. W., in W. concrete head wall of culvert; top of bolt

La Grange, at SE. corner of junction of County Route C, on top of curb; chiseled square

La Orange, on NW. side of S. limits of, at NW. corner of yard of farmhouse, in root on W. side of 14-in. soft-maple tree; copper nail and washer

La Grange, about 0.7 mi. S. of S. limits of, at junction of rd. W., on S. concrete head wall of culvert; chiseled square

La Grange, 1 mi. S. of, 60 ft. S. of cottage, 60 ft. E. of highway, in concrete post; standard tablet stamped "1135 C W A 1955" 505.258

La Orange, about 2.2 mi. S. of, 25 ft. N. and 50 ft. W. from junction of rd. W., on N. head wall of concrete culvert; chiseled square

Junction of private rd. W., on N. end of iron pipe culvert; pointed square

(Continued in Palmyra quadrangle; see line 5.)

T. 60 N., R. 6 W., in NW 1/4 sec. 15, at junction of rd. S. and abandoned rd. W., at NW. corner of yard of old brick dwelling, in root on E. side of 12-in. cedar tree; copper nail and washer

(For balance in Palmyra quadrangle, see line 4.)

T. 60 N., R. 6 W., in SW 1/4 sec. 9, 20 ft. N. and 20 ft. E. from T-rd. E., in root on N. side of 14-in. hickory tree; copper nail and washer

T. 60 N., R. 6 W., in SE 1/4 sec. 5, 65 ft. S. and 20 ft. W. from T-rd. W., in fence line, in root on S. side of 12-in. hickory tree; copper nail and washer

T. 60 N., R. 6 W., in W 1/2 sec. 12, at junction of rd. S., in root on W. side of 14-in. walnut tree; crossed nails

T. 60 N., R. 6 W., in NE 1/4 sec. 7, 25 ft. N. and 29 ft. W. from crossroads, 14 ft. E. of 12-in. hickory tree, at SE. corner of yard of Dover Grange Hall, in concrete post; standard tablet stamped "H 15 1956" 635.618

Reference mark 1, 60 ft. E. of tablet, on N. end of concrete culvert; chiseled square

Reference mark 2, 60 ft. S. of tablet, on W. end of concrete culvert; chiseled square

(Continued in Palmyra quadrangle; see line 4.)

T. 60 N., R. 6 W., in NE 1/4 sec. 25, 150 ft. N. and 48 ft. E. from T-rd. E., on SW. corner of 12-in. hickory tree, at SE. corner of yard of Dover Grange Hall, in concrete post; standard tablet stamped "H 25 1955" 635.568


Reference mark 1, 60 ft. E. of tablet, on N. end of concrete culvert; chiseled square

Reference mark 2, 60 ft. S. of tablet, on W. end of concrete culvert; chiseled square

(Continued in Palmyra quadrangle; see line 4.)

T. 65 N., R. 6 W., in SW 1/4 sec. 23, 150 ft. N. and 48 ft. E. from T-rd. E., in root on E. side of 20-in. white-oak tree; copper nail and washer

Ewing, at W. limits of, at junction of State Highway 6 and rd. W., on top of concrete right-of-way marker; chiseled cross


Ewing, near W. sixteen cor. between secs. 7 and 18, T. 60 N., R. 7 W., 25 ft. S. and 25 ft. E. from T-rd. E., in root on E. side of 20-in. white-oak tree; copper nail and washer

(Continued from Kahoka quadrangle; see line 5.)

T. 65 N., R. 6 W., in SW 1/4 sec. 25, 150 ft. N. and 48 ft. E. from junction of rd. E., on SW. corner of concrete porch of church; chiseled square

Junction of rd. W., 53 ft. S. and 20 ft. W. from, on NW. concrete wing wall of bridge; chiseled square


Junction of rd. W.; surface of highway

PROM POINT ABOUT 2.2 MILES SOUTH OF LA GRANGE, SOUTHWEST ALONG ROADS INTO PALMYRA QUADRANGLE, ABOUT 1 MILE SOUTH OF WEBER (by A. R. Friend in 1936)

T. 60 N., R. 6 W., in NW 1/4 sec. 15, at junction of rd. S. and abandoned rd. W., at NW. corner of yard of old brick dwelling, in root on E. side of 12-in. cedar tree; copper nail and washer

(For balance in Palmyra quadrangle, see line 4.)

T. 60 N., R. 6 W., in SW 1/4 sec. 9, 20 ft. N. and 20 ft. E. from T-rd. E., in root on N. side of 14-in. hickory tree; copper nail and washer


Reference mark 1, 60 ft. E. of tablet, on N. end of concrete culvert; chiseled square

Reference mark 2, 60 ft. S. of tablet, on W. end of concrete culvert; chiseled square

(Continued in Palmyra quadrangle; see line 4.)

T. 60 N., R. 6 W., in NE 1/4 sec. 25, 150 ft. N. and 48 ft. E. from T-rd. E., in root on E. side of 20-in. white-oak tree; copper nail and washer

(Continued from Kahoka quadrangle; see line 5.)

T. 65 N., R. 6 W., in SW 1/4 sec. 23, 150 ft. N. and 48 ft. E. from junction of rd. E., on SW. corner of concrete porch of church; chiseled square

Junction of rd. W., 53 ft. S. and 20 ft. W. from, on NW. concrete wing wall of bridge; chiseled square


Junction of rd. N.; surface of highway

5. FROM KAHOKA QUADRANGLE SOUTH ALONG U.S. HIGHWAY 61 TO CANTON

(by B. A. Barnes in 1936)

T. 65 N., R. 6 W., in SW 1/4 sec. 23, 150 ft. N. and 48 ft. E. from T-rd. E., in root on E. side of 20-in. white-oak tree; copper nail and washer

(Continued from Kahoka quadrangle; see line 5.)
SPIRIT LEVELING IN MISSOURI

T. 63 N., R. 6 W., 320 ft. E. of S. quarter cor. sec. 35, 24 ft. S. and 20 ft. W. from crossroad, in center of W. head wall of concrete culvert; iron pin in chiseled square

Coghill triangulation sta.; U.S.C.E. stone post

T. 62 N., R. 6 W., in E 1/2 sec. 11, about 560 ft. S. and 24 ft. W. from highway at fence E., 7 ft. N. of private driveway W., on center of N. head wall of concrete culvert; chiseled cross

T. 62 N., R. 6 W., in N 1/2 sec. 14, 21 ft. S. and 30 ft. W. from junction of rd. W., on center of S. head wall of concrete culvert; chiseled square

Canton, about 5 mi. N. of, 50 ft. W. of highway, 60 ft. N. and 15 ft. E. from schoolhouse, in concrete post; standard tablet stamped "1935" B.A. 1955

Junction of rd. S.; surface of highway

Canton, about 1 mi. N. of, 15 ft. S. and 20 ft. W. from road E. to Mississippi River Dam 20, on center of N. head wall of concrete culvert; chiseled square

U.S.C.E. B.M. designated "89"

Copper bolt

Top of cap

6. FROM PALMYRA QUADRANGLE EAST TO POINT ABOUT 0.5 MILE WEST OF Ewing (by F. Y. Brown in 1936)

From Newark quadrangle; see line 6.

Ewing, 1.5 mi. SW. of, in NE 1/4 sec. 13, T. 60 N., R. 8 W., 15 ft. S. of rd. E. of private drive to farmhouse, in root on S. side of 8-in. catalpa tree; copper nail and washer

Wooden bridge, 400 ft. E. of, 20 ft. N. of rd., in fence line, in root on N. side of 22-in. black-oak tree; crossed nails

7. FROM LA BELLE QUADRANGLE, NEAR BUNKER HILL, SOUTH AND WEST ABOUT 2 MILES INTO LA BELLE QUADRANGLE (by F. Y. Brown in 1937)

From La Belle quadrangle; see line 5.

La Belle triangulation sta.; U.S.C. & G.S. standard disk stamped "Mott 1931"

U.S.C. & G.S. standard reference disk stamped "Mott No 1 1931"

U.S.C. & G.S. standard reference disk stamped "Mott No 2 1931"

U.S.C. & G.S. standard reference disk stamped "Mott No 1931"

Rd., 12 ft. N. of, on E. end of N. head wall of concrete culvert; chiseled square

(Continued in La Belle quadrangle; see line 5.)

8. FROM LA BELLE QUADRANGLE AT SEC. 25, T. 63 N., R. 8 W., EAST INTO KAHOKA QUADRANGLE AT SEC. 25, T. 63 N., R. 6 W.

(by F. Y. Brown in 1937)

T. 63 N., R. 8 W., in NW 1/4 sec. 26, 40 ft. S. of rd., 200 ft. E. of jog in rd., in root on S. side of 22-in. elm tree; copper nail and washer

T. 63 N., R. 8 W., near quarter cor. between secs. 26 and 25, 25 ft. E. of W. rd. at crossroads, in root on S. side of 14-in. elm tree; nail and washer

T. 63 N., R. 8 W., on line between secs. 25 and 24, on corner of N. wing of W. abutment of small steel bridge; chiseled square

Small steel bridge, 30 ft. S. of rd. at E. end of, in root on N. side of 26-in. black-oak tree; nail and washer

T. 63 N., R. 7 W., near quarter cor. between secs. 20 and 29, 35 ft. N. of rd. at top of hill, in root on S. side of 25-in. white-oak tree; nail and washer

Small bridge, on N. end of E. abutment; chiseled square

T. 63 N., R. 7 W., in NW 1/4 sec. 25, 100 ft. N. of crk., 15 ft. N. of rd., 60 ft. SW. of stucco farmhouse, in root on S. side of 30-in. elm tree; nail and washer

T. 63 N., R. 7 W., near quarter cor. between secs. 27 and 26, 100 ft. S. and 15 ft. E. from T-rd. E., in root on W. side of 20-in. elm tree; copper nail and washer

Derrahs, 0.5 mi. E. of, at top of hill, 25 ft. N. of rd. at gate, in root on S. side of 24-in. white-oak tree; crossed nails


Dim T-rd. N., 60 ft. W. of, 20 ft. S. of rd., 100 ft. N. of small farm­house, in root on N. side of twin 10-in. maple tree; crossed nails

T. 63 N., R. 7 W., on line between secs. 25 and 26, 210 ft. N. and 25 ft. W. from T-rd. N., on root in W. side of 22-in. linden tree; copper nail and washer


Footnotes:
587.38
631.868
517.25
505.60
519.071
498.9
515.01
491.52
490.118
593.388
580.709
584.713
617.54
585.99
705.371
705.988
705.999
694.645
612.85
686.51
638.97
573.06
563.18
678.39
681.85
663.25
T. 63 N., R. 7 W., 0.1 mi. W. of quarter cor. between secs. 23 and 24, at intersection of tangents of rd. N.-W., 11 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 121 C 1936" 665.215
T. 63 N., R. 6 W., near quarter cor. between secs. 23 and 24, about 800 ft. N. of rd. forks, 15 ft. E. of rd., in root on W. side of 16-in. hickory tree; copper nail and washer 673.53

(For balance in Kahoka quadrangle, see line 6.)

County Route T at curve from W.-S., 15 ft. S. of, on S. end of iron pipe culvert; painted square 663.68
St. Patrick, 2 mi. S of, along County Route T, 10 ft. N. and 28 ft. W. from highway N.-E. at rd. S., 10 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 120 C 1936" 662.80
T. 63 N., R. 6 W., in center sec. 19, 15 ft. N. of curve in County Route T at rd. E., in root on S. side of 16-in. wild-cherry tree; nail and washer 661.55
T. 63 N., R. 6 W., near center sec. 30, 150 ft. N. and 45 ft. W. from T.rd. E., in barnyard, in root on S. side of 36-in. maple tree; copper nail and washer 650.92
Small bridge, on center of S. end of E. abutment; chiseled square 606.17
Concrete culvert, 14 ft. N. of rd., on center of W. wing wall; chiseled square 626.95
Buena Vista School, quarter cor. between secs. 28 and 29, T. 63 N., R. 6 W., 24 ft. N. and 35 ft. W. from crossroads, at SE. corner of schoolyard, in concrete post; standard tablet stamped "T T 119 C 1936" 663.027
Farmhouse of Jim Hodgens, 60 ft. N. of, 15 ft. S. of rd.; SE. corner of concrete step 656.09
T. 63 N., R. 6 W., near center sec. 28, 25 ft. N. of rd., at SE. corner of barnyard of Ralph Barkley, in root on N. side of 30-in. maple tree; copper nail and washer 629.70
T. 63 N., R. 6 W., in W 1/2 sec. 26, 60 ft. S. of U.S. Highway 61 at rd. W., on NE. corner of bridge H-281; chiseled square 506.62
T. 63 N., R. 6 W., W. sixteenth cor. between secs. 23 and 26, 40 ft. E. of U.S. Highway 61, on SW. corner of doorstep of Shiloh Church; chiseled square 500.66
T.-rd. N., 60 ft. E. of, 15 ft. N. of rd., in N. end of W. abutment of steel bridge over slough; top of bolt head 682.98
T. 63 N., R. 6 W., on line between secs. 24 and 25, near Chicago, Burlington & Quincy R.R. at private rd. crossing, 14 ft. W. of track, 8 ft. N. of rd., on base of concrete post; highest point 683.74
T. 63 N., R. 6 W., near E. sixteenth cor. between secs. 13 and 21, 60 ft. E. of Chicago, Burlington & Quincy R.R. at Clark-Lewis county line, in root on W. side of 48-in. cottonwood tree; nail 683.78

(Continued in Kahoka quadrangle; see line 6.)

For additional level lines along Mississippi River and Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order lines, Savanna to Grafton, Ill. and Quincy, Ill. to Milan, Mo.
1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1901-02)

Hester, 0.5 mi. S. of, in SE 1/4 NW 1/4 sec. 10, T. 59 N., R. 6 W., in sixth tier of stone from top of S. abutment of bridge over South Pabius River; standard tablet stamped "611 Q"

Palmyra Junction, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail; Woodland, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail; T. 58 N., R. 7 W., in NE 1/4 SE 1/4 sec. 29, at crossroads, near SW. corner of schoolhouse, in S. face of stone foundation; standard tablet stamped "695 Q"

Philadelphia, in NW. corner of stone foundation of Baptist Church; aluminum tablet stamped "711 Q" (on unchecked single-run spur line); Emerson, in SE. corner of stone foundation of Christian Church; standard tablet stamped "672 Q"

Durham, in front of Quincy, Omaha & Kansas City R.R. sta.; top of rail; Benbow, at post office, on W. end of step; chiseled cross

2. FROM MONROE CITY QUADRANGLE, NEAR NEW MARKET, NORTH TO PHILADELPHIA (by J. H. Vinyard in 1931)

New Market, in SE. cor. sec. 1, T. 57 N., R. 8 W., SW. of crossroads, in root of 18-in. locust tree; copper nail and washer

(Total from Monroe City quadrangle; see line 2.)

La Grange, 3 mi. S. of, 30 ft. H. and 1/8 ft. W. from crossroad, 125 ft. NW. of filling sta., in concrete post; standard tablet stamped "11436 C.W.A 1955"

U.S. 61, E. of, 1/2 mi. S. of, on S. head wall of concrete culvert; chiseled square

Junction of rd. E. on SW. corner of porch of Walnut Grove School; chiseled square

Taylor, 1.5 mi. N. of, 15 ft. W. from junction of rd. E., on top of curb; chiseled square

Taylor, about 1 mi. N. of, at junction of rd. N., on S. head wall of concrete culvert; chiseled square

U.S.C. & G.S. standard disk stamped "TC 15 1953"

*Accuracy doubtful because of insufficient connections.
Taylor, 1.5 mi. S. of, 100 ft. N. and 100 ft. W. from junction of State Highway 8, in concrete post; standard tablet stamped "W 37 C W A 1935"

Schroeder triangulation sta. reference mark No 2; U.S.C. & G.S. standard reference disk stamped "Schroeder No 2"

T. 59 N., R. 6 W., on line between secs. 9 and 10, 75 ft. S. and 200 ft. W. from crossroad, in NW corner of farmyard, in root on W. side of 15-in. elm tree; copper nail and washer

T. 59 N., R. 6 W., in 3 1/2 sec. 9, near junction of rd. S., on N. head wall of concrete culvert; chiseled square

T. 59 N., R. 6 W., near quarter cor. between secs. 6 and 9, 25 ft. S. and 15 ft. E. from junction of rd. S., on E. head wall of concrete culvert; chiseled square

T. 95 N., R. 6 W., in SE 1/4 sec. 6, T. 59 N., R. 6 W., 60 ft. S. and 15 ft. W. from crossroad, in concrete post; standard tablet stamped "W 37 C W A 1935"

T. 95 N., R. 6 W., near quarter cor. between secs. 5 and 6, 14 ft. N. and 15 ft. E. from crossroad, on E. head wall of concrete culvert; chiseled square

Maywood, 1.5 mi. S. of, in SE 1/4 sec. 6, T. 59 N., R. 6 W., 60 ft. S. and 35 ft. W. from crossroad, in concrete post; standard tablet stamped "H 11 1/2 C W A 1935"

T. 59 N., R. 6 W., near quarter cor. between secs. 8 and 9, 25 ft. S. and 15 ft. E. from crossroad, on E. head wall of concrete culvert; chiseled square

T. 59 N., R. 6 W., near quarter cor. between secs. 5 and 6, 14 ft. N. and 15 ft. E. from crossroad, on E. head wall of concrete culvert; chiseled square

Woodland, 1 mi. E. of, near center sec. 9, T. 57 N., R. 6 W., N. of rd., in root on S. side of 15-in. elm tree; copper nail and washer

T. 57 N., R. 6 W., in sec. 9, 115 ft. E. of T-rd. S., on N. head wall of concrete culvert; chiseled square

Woodland, 0.5 mi. W. of, 80 ft. N. and 150 ft. W. from T-rd. S., 15 ft. S. of S. corner of brick church, in small cemetery, in root on W. side of 18-in. cedar tree; copper nail and washer

Woodland, 1.3 mi. W. of, in NE 1/4 sec. 12, T. 57 N., R. 7 W., 10 ft. N. and 10 ft. W. from intersection of rd. tangents S.-W., 9 ft. S. and 5 ft. W. from fence corner, in concrete post; standard tablet stamped "W 47 C W A 1935"

T. 57 N., R. 7 W., near quarter cor. between secs. 1 and 12, 6 ft. N. and 55 ft. E. from T-rd. S., on top of concrete retaining wall of culvert over small stream; chiseled square

T. 57 N., R. 7 W., cor. secs. 1, 2, 11, and 12, 30 ft. S. of T-rd. N., in root on W. side of 8-in. wild-cherry tree; copper nail and washer


Palmyra, about 1 mi. S. of, along U.S. Highway 61, 90 ft. W. of junction of rd. S., in notch on W. side of 10-in. wild-cherry tree; copper nail and washer

Palmyra, about 2.5 mi. S. of, along Chicago, Burlington & Quincy R.R., on NE corner of farmyard, in top of 16-in. stump; copper nail and washer

Woodland, 0.5 mi. W. of, 80 ft. N. and 150 ft. W. from T-rd. S., 15 ft. S. of S. corner of brick church, in small cemetery, in root on W. side of 18-in. cedar tree; copper nail and washer

Woodland, 1.3 mi. W. of, in NE 1/4 sec. 12, T. 57 N., R. 7 W., 10 ft. N. and 10 ft. W. from intersection of rd. tangents S.-W., 9 ft. S. and 5 ft. W. from fence corner, in concrete post; standard tablet stamped "W 47 C W A 1935"

T. 57 N., R. 7 W., near quarter cor. between secs. 1 and 12, 6 ft. N. and 55 ft. E. from T-rd. S., on top of concrete retaining wall of culvert over small stream; chiseled square

T. 57 N., R. 7 W., cor. secs. 1, 2, 11, and 12, 30 ft. S. of T-rd. N., in root on W. side of 8-in. wild-cherry tree; copper nail and washer
T. 57 N., R. 7 W., near N. sixteenth cor. between secs. 1 and 2, 28 ft. S. and 7 ft. E. from T-rd. S., on concrete head wall of iron pipe culvert; chiseled square

671.00

T. 57 N., R. 7 W., in S 1/2 sec. 3, 33 ft. S. of rd. at fence S., 17 ft. N. and 2 ft. E. from Nw. corner of farmyard of Frank Courtney, in concrete post; standard tablet stamped "15 B 86 C 1936"

545.707

T. 57 N., R. 7 W., in S 1/2 sec. 5, on SE. wing wall of bridge over South Fork of North River; chiseled square

554.74

T. 57 N., R. 7 W., in NE 1/4 sec. 9, 25 ft. S. and 50 ft. E. from junction of abandoned rd. S., on Nw. corner of concrete foundation of farm scales; chiseled square

628.76

T-rd. N., 100 ft. E. of, on S. head wall of concrete culvert; chiseled square

590.94

T. 57 N., R. 7 W., near quarter cor. between secs. 5 and 6, 13 ft. N. and 116 ft. W. from T-rd. S., 15 ft. S. of SE. corner of White Franklin School, in concrete post; standard tablet stamped "15 B 86 C 1936"

625.898

Tps. 57 and 58 N., Rs. 7 and 8 W., about 0.1 mi. S. of cor. of, 32 ft. S. and 7 ft. E. from T-rd. S., on S. head wall of concrete culvert; chiseled square

697.14

6. FROM NEWARK QUADRANGLE AT SEC. 21, T. 59 N., R. 8 W., NORTH INTO CANTON QUADRANGLE AT SEC. 13, T. 60 N., R. 8 W.

(by A. R. Friend in 1936)

(Continued from Newark quadrangle; see line 5.)

T. 59 N., R. 8 W., W. sixteenth cor. between secs. 21 and 25, 15 ft. N. and 176 ft. E. from road at rd. E., in root on E. side of 10-in. cottonwood tree; copper nail and washer

684.08

(For balance in Newark quadrangle, see line 5.)

T. 60 N., R. 8 W., cor. secs. 23, 24, 25, and 26, 15 ft. N. and 25 ft. W. from crossroads, in root on N. side of 10-in. elm tree; copper nail and washer

676.092

7. FROM NEWARK QUADRANGLE SOUTH ABOUT 1 MILE ALONG COUNTY ROUTE N TO PHILADELPHIA, THEN SOUTHEAST ALONG STATE HIGHWAY 56 TO PALMYRA, THEN NORTH ALONG U.S. HIGHWAY 61 TO TAYLOR

(by W. V. Kennedy in 1937)

(Continued from Newark quadrangle; see line 8.)

Philadelphia, about 1 mi. N. of, along County Route N, 110 ft. S. of private entrance to farmhouse, E. of rd., in root on E. side of 22-in. elm tree; copper nail and washer

677.96

Philadelphia, at W. limits of, near junction of rd. W., on S. end of iron pipe culvert; painted cross

711.81

Philadelphia, at E. limits of, 20 ft. N. and 12 ft. E. from junction of rd. N., on E. head wall of concrete culvert; chiseled square

709.98

T. 59 N., R. 7 W., approximate center sec. 7, 14 ft. N. and 12 ft. E. from N.-S. crossroad, on E. head wall of concrete culvert; chiseled square

699.89

T. 59 N., R. 7 W., in W 1/2 sec. 8, 70 ft. N. of junction of rd. E., in SE. corner of schoolyard, in root on SE. side of 20-in. elm tree; copper nail and washer

698.52

T. 59 N., R. 7 W., near S. sixteenth cor. between secs. 8 and 9, 20 ft. N. and 10 ft. E. from N.-S. crossroad, on E. head wall of concrete culvert; chiseled square

675.42

T. 59 N., R. 7 W., in S 1/2 sec. 9, at junction of rd. W., on N. head wall of concrete culvert; chiseled square

684.49

T. 58 N., R. 7 W., cor. secs. 9, 10, 15, and 16, 35 ft. N. and 70 ft. W. from junction of rd. S., in concrete post; standard tablet designated "15 B 1936"

675.231

T. 58 N., R. 7 W., about 0.2 mi. W. of quarter cor. between secs. 10 and 15, 16 ft. N. and 10 ft. E. from junction of rd. N., on E. head wall of concrete culvert; chiseled square

684.61

T. 58 N., R. 7 W., near quarter cor. between secs. 11 and 12, 20 ft. S. and 10 ft. E. from junction of rd. S. and private rd. N., on E. head wall of concrete culvert; chiseled square

679.02

T. 58 N., R. 7 W., near cor. secs. 11, 12, 13, and 14, 18 ft. S. and 10 ft. E. from N.-S. crossroad, on E. head wall of concrete culvert; chiseled square

674.76

T. 58 N., R. 7 W., on line between secs. 12 and 13, 100 ft. W. of intersection of N. and W. head wall of concrete culvert; chiseled square

652.26

T. 58 N., R. 7 W., on line between secs. 7 and 16, at junction of rd. N., on N. head wall of concrete culvert; chiseled square

679.75

T. 58 N., R. 7 W., near quarter cor. between secs. 7 and 16, 20 ft. S. and 15 ft. E. from junction of rd. S., on E. head wall of concrete culvert; chiseled square

685.70

T. 58 N., R. 8 W., cor. secs. 7, 8, 17, and 18, 45 ft. N. of junction of rd. S., on concrete base of corner fence post; chiseled square

676.11

Palmyra, about 3 mi. NW. of, 225 ft. N. of junction of rd. S., 30 ft. N. of entrance to brick dwelling, on W. head wall of concrete culvert; chiseled square

618.65
Palmyra, 3.5 mi. NW. of junction of U.S. Highway 61, near E. sixteenth corner between secs. 16 and 21, T. 58 N., R. 6 W., 10 ft. S. and 35 ft. W. from highway at fence E.; standard tablet stamped "1537 ERA 1935" 638.709 Feet
Crossroad, on S. head wall of concrete culvert; chiseled square
Palmyra, about 1.8 mi. NW. of, on top of SW. abutment of bridge over North River; chiseled square
Junction of private rd. S., on E. end of iron pipe culvert; painted cross
Palmyra, about 0.5 mi. W. of, 100 ft. W. of junction of rd. S. to Woodland, on S. head wall of concrete culvert; chiseled square
Chicago, Burlington & Quincy R.R. overpass at junction of rd. S., 700 ft. E. of junction of rd. N., on top of concrete curb at SE. corner; chiseled square
Palmyra, State Highway 56 at Main Street, on top of concrete curb at SW. corner; chiseled square
Palmyra, at N. limits of, at junction of U.S. Highway 61, on N. head wall of concrete culvert; chiseled square
Palmyra, 1 mi. N. of, 450 ft. N. of crossing of Chicago, Burlington & Quincy R.R., 400 ft. S. of bridge over North River, in concrete post; standard tablet stamped "1539 1935" 591.723
Junction of rd. E., on N. head wall of concrete culvert; chiseled square
T. 58 N., R. 6 W., cor. secs. 11, 12, 13, and 14, 10 ft. N. and 45 ft. W. from junction of rd. W., 340 ft. S. of rd. E., on N. head wall of concrete culvert; chiseled square
Palmyra, 1 mi. N. of, 450 ft. N. of crossing of Chicago, Burlington & Quincy R.R., 400 ft. S. of bridge over North River, in concrete post; standard tablet stamped "1539 1935" 589.22
Junction of rd. E., on N. head wall of concrete culvert; chiseled square
T. 58 N., R. 6 W., cor. secs. 1, 2, 11, and 12, 12 ft. N. and 20 ft. E. from E.-W. crossroad, on N. head wall of concrete culvert; chiseled square
Taylor, 5 mi. S. of, 27 ft. N. and 50 ft. W. from crossroad, in concrete post; standard tablet stamped "1537 1935" 555.96
Junction of private rd. E., on N. end of iron pipe culvert; painted cross
taylor, 4 mi. S. of, 18 ft. N. and 16 ft. W. from E.-W. crossroad, on W. head wall of concrete culvert; chiseled square
Junction of private rd. W., on concrete base of gasoline pumps; chiseled square
Taylor, 3 mi. S. of, 30 ft. S. and 50 ft. W. from junction of rd. W., on base of concrete corner fence post; chiseled square
T. 59 N., R. 6 W., on line between secs. 23 and 24, at bridge over South Fabius River, on NE. corner of abutment; chiseled square
Taylor, 2 mi. S. of, 20 ft. S. and 38 ft. E. from junction of rd. W., in root on N. side of 26-in. pecan tree; copper nail and washer
Taylor, 0.8 mi. S. of, near private rd. W., on N. end of concrete pipe culvert; chiseled square
Taylor, at S. limits of, at bridge over North Fabius River, on NE. corner of left abutment; standard tablet (set by water-resources branch of U.S. Geol. Survey) 594.029

For an additional level line along Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order line, Quincy, Ill. to Milan, Mo.
1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1901-02) Accuracy of figures of elevation doubtful because of insufficient connections.

West Ely, in front of post office (abandoned), on large rock; chiseled cross
Rensselaer, in front of Wabash Ry. sta.; top of rail
T. 56 N., R. 6 W., in SW 1/4 sec. 5, in NE. corner of stone foundation of porch; standard tablet stamped "727.5 Q"
Ely, in front of Chicago, Burlington & Quincy R.R. sta.; top of inside rail
T. 56 N., R. 7 W., in SW 1/4 NE 1/4 sec. 2, in N. face of stone foundation of dwelling; standard tablet stamped "729 Q"
T. 57 N., R. 7 W., in SW 1/4 NE 1/4 sec. 15, in SW. stone of coping around Mount Vernon Church; standard tablet stamped "661 Q"
Monroe City, in N. face of stone coping of First Baptist Church; standard tablet stamped "750 Q"
T. 55 N., R. 7 W., in NE 1/4 SW 1/4 sec. 3, In SE corner of stone school; standard tablet stamped "723 Q"

Cincinnati, in S 1/2 sec. 17, T. 55 N., R. 6 W., in E. face of stone foundation of Methodist Church; standard tablet stamped "527 Q"

2. FROM HUNNEWELL QUADRANGLE AT SEC. 2, T. 55 N., R. 6 W., NORTH THROUGH MONROE CITY INTO PALMYRA QUADRANGLE AT SEC. 12, T. 57 N., R. 8 W. (by J. H. Vinyard in 1931)

(Continued from Hunnewell quadrangle; see line 2.)

T. 55 N., R. 8 W., on line between secs. 1 and 2, 0.3 mi. S. of U.S.
Monroe City, 2.6 mi. S. of, along U.S. Highway 21, 0.25 ft. N. of junction of rd. S., on N. head wall of culvert; chiseled square
Reference mark, 250 ft. E. of tablet, in root of 30-in. walnut tree; copper nail and washer
Monroe City, 2.6 mi. S. of, along U.S. Highway 21, 0.25 ft. S. of highway at curve W. between junction of rd. E. and junction of rd. W., on middle of E. curb of steel bridge; chiseled square
Monroe City, 1.5 mi. S. of, along U.S. Highway 21, 1,000 ft. S. of Nolan School at crossroads, on E. head wall of culvert; chiseled square
Monroe City, 1.5 mi. S. of, along U.S. Highway 21, 500 ft. N. of farmhouse, E. of highway, on E. head wall of culvert; chiseled square
Monroe City, 1.5 mi. S. of, along U.S. Highway 21, 1,000 ft. S. of stone entrance to Elzea farm, W. of highway, in pasture, in root of 24-in. elm tree; copper nail and washer
Monroe City, at S. limits of, 126 ft. N. and 39 ft. E. from U.S. Highway 21 at rd. E., in concrete post; standard tablet stamped "70 C W A 1934"
Reference mark, 90 ft. S. of tablet, on N. head wall of side rd. culvert; chiseled square
Monroe City, 1.5 mi. S. of, E. cor. secs. 1 and 12, T. 55 N., R. 8 W., SW. of T-10-1; in root of 24-in. elm tree; copper nail and washer
Monroe City, 2 mi. N. of, cor. Tps. 56 and 57 N., R. 7 and 8 W., 24 ft. N. of T-rd. S., in concrete post; standard tablet stamped "T T 71 C W A 1934"
Reference mark, 50 ft. E. of tablet, on N. head wall of concrete culvert; chiseled square

Monroe City, 2 mi. N., thence 0.5 mi. W. from, quarter cor. between secs. 1 and 36, Trs. 56 and 57 N., R. 8 W., in root of 20-ft. oak tree; copper nail and washer

Monroe City, 4 mi. N. of, near center sec. 25, T. 57 N., R. 8 W., opposite Tr. 57 N., R. 8 W., on E. head wall of culvert; chiseled square

Monroe City, 4.5 mi. N. of, quarter cor. between secs. 24 and 25, T. 57 N., R. 8 W., 1,000 ft. N. of crossroads, in root of twin 50-ft. oaks

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

Monroe City, 2 mi. N. of, thence 0.5 mi. W. from, quarter cor. between secs. 1 and 36, Trs. 56 and 57 N., R. 8 W., at Tr. 57 N., R. 8 W., in root of 20-ft. oak tree; copper nail and washer

Monroe City, 7.5 mi. N. of, near center sec. 12, T. 57 N., R. 8 W., at N. end of W. truss on bridge over South Fork of North River, on bolt; top of nut

(Continued in Palmyra quadrangle; see line 2.)

3. FROM HANNIBAL QUADRANGLE AT SEC. 7, T. 57 N., R. 5 W., SOUTH ALONG HIGHWAY 21; TO SEC. 31, T. 57 N., R. 5 W. (by B. A. Barnes in 1936)

(Culvert, on E. head wall; (mark not described)

Palmyra, 4.8 mi. S. of, 1.4 mi. S. of junction of U.S. Highway 61, on SE. abutment of concrete bridge K-290 over Bear Creek; chiseled square

Junction of rd. W., 100 ft. N. of rd. E.; surface of highway

Palmyra, 5.5 mi. S. of, 1 mi. N. of junction of U.S. Highway 36, at crossroads; head wall of culvert; chiseled square

Palmyra, 6.5 mi. S. of, at junction of U.S. Highway 36, 30 ft. S. of Highway 36, in root on E. side of 28-ft. elm tree; copper nail and washer

For balance in Hannibal quadrangle, see line 3.)

Missouri-Kansas-Texas R.R. at rd. crossing, in telegraph pole; nail

(Continued in Hannibal quadrangle; see line 3.)

4. FROM HANNIBAL QUADRANGLE AT SEC. 30, T. 55 N., R. 5 W., SOUTH-WEST TO SOUTH BORDER OF QUADRANGLE, THENCE NORTH ALONG COUNTY ROUTE H AND OTHER ROADS INTO HANNIBAL QUADRANGLE AT SEC. 6, T. 56 N., R. 5 W. (by B. A. Barnes in 1935)

(Crossroads, on S. head wall of concrete culvert; painted square

Center, at post office, on SE. corner of concrete step; chiseled square

Junction of rd. W. on concrete sidewalk to dwelling; painted square

Center, 1.2 mi. N. of, at S. driveway to cemetery, on base of SW. concrete gatepost; chiseled square

Center, 2.6 mi. N. of, near sixth cor. between secs. 14 and 23, T. 55 N., R. 6 W., 15 ft. N. of highway at produced corner from N.-S., 3 ft. S. and 25 ft. W. from SE. corner of yard, in concrete post; standard tablet stamped "T T 3 C 1935"

T. 55 N., R. 6 W., in sec. 11, near junction of rd. W. to farmhouse, at base of corner fence post; surface of ground

Center, 3.5 mi. N. of, in NW 1/4 sec. 11, T. 55 N., R. 6 W., 125 ft. N. of lane W. to farmhouse, 25 ft. W. of highway, in root of 35-ft. hickory tree; copper nail and washer

Center, 4.5 mi. N. of, in NE 1/4 sec. 11, T. 55 N., R. 6 W., on E. head wall of concrete culvert; chiseled square

County Route H, at S. edge of Salt River Valley, in W. side of concrete culvert; iron pin

Crossroads; surface of highway

Center, 5.8 mi. N. of, along County Route H, in NW 1/4 sec. 2, T. 55 N., R. 6 W., 61 ft. S. and 36 ft. E. from crossroad, 1/2 ft. N. and 1/4 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 3 C 1935"

Reference mark, 170 ft. E. of tablet, in root of 30-ft. oak tree; copper nail and washer

T. 55 N., R. 6 W., in NE 1/4 sec. 2, on County Route H, on E. end of S. concrete abutment of steel bridge over Salt River; chiseled square

T-34 W., on W. end of concrete culvert; chiseled square
SPIRIT LEVELING IN MISSOURI

T. 55 N., R. 6 W., in NE 1/4 sec. 3, 70 ft. W. of T-rd. N., 80 ft. E. of rd. corner from W-S., on SE. concrete wing wall of small bridge over creek; chiseled square

5. FROM SEC. 3, T. 55 N., R. 6 W., WEST THROUGH SOUTH PART OF QUADRANGLE TO SEC. 36, T. 56 N., R. 6 W. (by B. A. Barnes in 1935)

T. 55 N., R. 6 W., in NE 1/4 sec. 70, 70 ft. W. of T-rd. N., 80 ft. E. of rd. corner from W-S., on SE. concrete wing wall of small bridge over creek; chiseled square

5. FROM SEC. 3, T. 55 N., R. 6 W., WEST THROUGH SOUTH PART OF QUADRANGLE TO SEC. 36, T. 56 N., R. 6 W. (by B. A. Barnes in 1935)

T. 55 N., R. 6 W., in NE 1/4 sec. 3, 70 ft. W. of T-rd. N., 80 ft. E. of rd. corner from W-S., on SE. concrete wing wall of small bridge over creek; chiseled square

5. FROM SEC. 3, T. 55 N., R. 6 W., WEST THROUGH SOUTH PART OF QUADRANGLE TO SEC. 36, T. 56 N., R. 6 W. (by B. A. Barnes in 1935)

T. 55 N., R. 6 W., in NE 1/4 sec. 3, 70 ft. W. of T-rd. N., 80 ft. E. of rd. corner from W-S., on SE. concrete wing wall of small bridge over creek; chiseled square

5. FROM SEC. 3, T. 55 N., R. 6 W., WEST THROUGH SOUTH PART OF QUADRANGLE TO SEC. 36, T. 56 N., R. 6 W. (by B. A. Barnes in 1935)

T. 55 N., R. 6 W., in NE 1/4 sec. 3, 70 ft. W. of T-rd. N., 80 ft. E. of rd. corner from W-S., on SE. concrete wing wall of small bridge over creek; chiseled square
PART 6, NORTHEASTERN MISSOURI, 1896-1938

7. FROM MONROE CITY WEST INTO HUNNEWELL QUADRANGLE (by Cornish Beck in 1936)


Monroe City, about 0.2 mi. W. of W. limits of city, 25 ft. S. and 10 ft. E. from U.S. Highway 36 at entrance to brick dwelling, in root on N. side of 20-in. elm tree; copper nail and washer

T-rd. W., 25 ft. S. of, on concrete base of corner fence post; chiseled square

(Continued in Hunnewell quadrangle; see line 4.)

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey second-order line, Hannibal to Sallisbury.
1. FROM FLORIDA QUADRANGLE, SEC. 25, T. 52 N., R. 8 W.
(by D. W. Weber in 1929)
(Continued from Florida quadrangle; see line 2.)

Worcester, 1.5 mi. S. and 0.8 mi. E. from, E. cor. secs. 25 and 36,
T. 52 N., R. 8 W., 20 ft. N. and 23 ft. W. from T-rd. W., 55 ft. S.
and 23 ft. W. from T-rd. E., in concrete post; standard tablet stamped
"F T Sta No 23 M 1926"

Reference mark, 800 ft. S. of tablet, in yard, in root on S. side of
20-in. maple tree; copper nail and washer

2. FROM SEC. 36, T. 52 N., R. 8 W., NORTH ALONG WEST BORDER OF
QUADRANGLE INTO FLORIDA QUADRANGLE AT SEC. 36, T. 54 N.,
R. 8 W. (by J. H. Vinyard in 1934)

Worcester, about 0.5 mi. S. and 0.8 mi. E. from, in NE. cor. sec. 25,
T. 52 N., R. 8 W., near T-rd. W., on S. head wall of concrete culvert;
chiseled square

Worcester, about 0.5 mi. N. and 0.8 mi. E. from, E. cor. secs. 13 and 24,
T. 52 N., R. 8 W., SE. of T-rd. W., on N. head wall of culvert; chiseled
square

Worcester, 1.5 mi. N. and 0.8 mi. E. from, E. cor. secs. 12 and 13,
T. 52 N., R. 8 W., 5 ft. N. and 36 ft. W. from rd. at fence W., 245 ft.
S. and 73 ft. W. from T-rd. E. at W. cor. secs. 7 and 8, T. 52 N.,
R. 7 W., in concrete post; standard tablet stamped "1951 ERA 1955"

Reference mark, 400 ft. N. of tablet, in root of 24-in. elm tree; copper
nail and washer

T. 52 N., R. 7 W., in NW. cor. sec. 7, in yard of United Church, in root
of 15-in. elm tree; copper nail and washer

Tpa. 52 and 53 N., Rs. 7 and 8 W., cor. of, 400 ft. N. of T-rd. E., in
root of 24-in. elm tree; copper nail and washer

T. 53 N., Rs. 7 and 8 W., near quarter cor. between secs. 31 and 36;
top of S. post of W. rail of steel bridge

T. 53 N., R. 8 W., near NE. cor. sec. 36; top of S. post of W. rail of
steel bridge

T. 53 N., Rs. 7 and 8 W., quarter cor. between secs. 25 and 30, 36 ft. N.
and 148 ft. E. from crossroads, 8 ft. N. of fence, in concrete post;
standard tablet stamped "48 C W A 1934"

Reference mark, 500 ft. W. of tablet, in root of 24-in. elm tree; copper
nail and washer

elm tree; copper nail and washer

T. 53 N., R. 7 W., in sec. 19, about 300 ft. N. of farmhouse, in root of
18-in. elm tree; copper nail and washer

T. 53 N., R. 8 W., in SE 1/4 sec. 13, W. of rd., in root of 18-in. elm
tree; copper nail and washer

T. 53 N., Rs. 7 and 8 W., cor. secs. 7, 12, 13, and 18, 37 ft. S. and
52 ft. W. from County Route 5 at crossroad, 2 ft. N. of fence, in
concrete post; standard tablet stamped "53 C W A 1934"

Reference mark, 75 ft. E. of tablet, on concrete base of fence post;
chiseled square

elm tree; copper nail and washer

Tpa. 53 and 54 N., Rs. 7 and 8 W., cor. of, 150 ft. E. of T-rd. S., on
N. head wall of culvert; chiseled square

(Continued in Florida quadrangle; see line 3.)
3. FROM MONROE CITY QUADRANGLE, AT SEC. 36, T. 55 N., R. 6 W., SOUTHWEST, THENCE NORTH ALONG STATE HIGHWAY 19 INTO
MONROE CITY QUADRANGLE (by B. A. Barnes in 1935)
(Continued from Monroe City quadrangle; see line 4.)
Center, about 0.5 mi. S. of, near S. cor. secs. 35 and 36, T. 55 N., R. 6 W. at county line P, at rd. E., 1/2 ft. N. of Highway 19 W. produced, 30 ft. N. of fence corner, in concrete post; standard tablet stamped "1122 C W A 1934" 713.163
(Continued in Monroe City quadrangle; see line 4.)

(Continued from Vandalia quadrangle; see line 1.)
T. 53 N., R. 5 W., W. cor. secs. 7 and 18, 8 ft. S. and 18 ft. E. from T-rd. E., on S. end of concrete culvert; chiseled square 755.00
T. 53 N., R. 5 W., quarter cor. between secs. 12 and 13, 6 ft. S. and 18 ft. E. of concrete culvert; chiseled square 747.53
T. 53 N., R. 5 W., quarter cor. between secs. 1 and 12, 15 ft. N. and 20 ft. E. from crossroads, 8 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "1121 C W A 1935" 750.498
Tps. 53 and 54 N., R. 6 W., on line between secs. 1 and 36, near T-rd. S., in NW. side of corner power-line pole; nail 751.45
Tps. 53 and 54 N., R. 6 W., sixteenth cor. between secs. 1 and 36, 6 ft. S. and 15 ft. W. from T-rd. N., on S. end of pipe culvert; painted square 750.86
T. 53 N., R. 5 W., W. sixteenth cor. between secs. 25 and 36, 12 ft. S. and 15 ft. W. from T-rd. S., on S. end of pipe culvert; chiseled square 751.814
Madisonville, 2 mi. SW. of, in NE 1/4 sec. 25, T. 54 N., R. 6 W., on line between secs. 1 and 36, 12 ft. S. of rd. forks, 6 ft. E. of rd., on S. side of concrete bridge; chiseled square 664.50
Ford across creek, 90 ft. SE. of, in E. side of 36-in. sycamore tree; nail 606.143
Madisonville, 1.8 mi. NW. of, in NW 1/4 sec. 7, T. 54 N., R. 6 W., 25 ft. S. of rd. cor., 2 ft. W. of fence corner, in concrete post; standard tablet stamped "11 12 C W A 1935" 693.185
Ford across creek, 65 ft. NW. of, in root on E. side of 36-in. sycamore tree; nail 619.76
T. 54 N., R. 5 W., on line between secs. 6 and 31, 18 ft. N. and 12 ft. E. from T-rd. S., on S. side of telephone pole; nail 724.95

5. FROM MONROE CITY QUADRANGLE, SOUTHWEST ALONG STATE HIGHWAY 19 TO SEC. 25, T. 54 N., R. 7 W., THENCE WEST ALONG STATE HIGHWAY 26 TO FERRY (by Cornish Beck in 1936)
Center, about 0.8 mi. S. and 1.5 mi. W. from, 30 ft. N. of highway at E. end of curve, on top of right-of-way post; (mark not described) 721.65
Center, about 0.8 mi. SW. of, in highway, in root on SW. side of lone 36-in. elm tree; copper nail and washer 722.14
T. 54 N., R. 6 W., quarter cor. between secs. 8 and 9, 235 ft. N. and 18 ft. E. from crossroads; 18 ft. S. W. of fence, on head wall of culvert; chiseled square 743.686
T. 54 N., R. 6 W., on line between secs. 17 and 18, 35 ft. S. and 25 ft. E. from crossroad, on NW. side of hedge-fence post; copper nail and washer 733.55
T. 54 N., R. 6 W., in SE 1/4 sec. 18, 25 ft. S. and 40 ft. E. from junction of rd. E., in W. side of telephone pole; nail 735.12
T. 54 N., R. 6 W., about 100 ft. W. of cor. secs. 18 and 19, 20 ft. N. and 35 ft. W. from junction of rd. W., on head wall of culvert; chiseled square 736.05
T. 54 N., R. 7 W., sixteenth cor. between secs. 24 and 25, 0.8 mi. N. of junction of State Highway 26, 91 ft. N. and 1/2 ft. E. from E.-W. crossroad; 2 ft. E. of fence, in concrete post; standard tablet stamped "1120 C W A 1934" 736.554
Ferry, about 1.5 mi. E. of, 15 ft. N. and 120 ft. W. from S. junction of State Highway 26, on head wall of culvert; chiseled square 766.99
Ferry, about 1.8 mi. W. of, in SE 1/4 sec. 26, T. 54 N., R. 7 W., 20 ft. S. and 10 ft. W. from junction of rd. S., on head wall of culvert; chiseled square 739.81
682.156
6. FROM SEC. 18, T. 53 N., R. 5 W., WEST TO POINT ABOUT 1 MILE NORTH OF HUTCHISON (by Cornish Beck in 1936)

T. 53 N., R. 5 W., cor. secs. 18 and 19, 20 ft. S. and 2 ft. E. from rd. corner N.-E., 3 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 22 C 1935"

T. 53 N., R. 6 W., cor. secs. 13, 11, 23, and 24, 15 ft. N. and 120 ft. W. from T-rd. N., in root on W. side of 12-in. elm tree; copper nail and washer

Bridge over Spencer Creek, on S. corner of; chiseled square

7. FROM BELLFLOWER QUADRANGLE AT SEC. 31, T. 52 N., R. 5 W., WEST TO SEC. 36, T. 52 N., R. 8 W., INCLUDING THAT PART OF THE LINE IN WELLSVILLE QUADRANGLE (by Cornish Beck in 1936)

(Continued from Vandalia quadrangle; see line 3.)

T. 52 N., R. 6 W., cor. secs. 25 and 26, 20 ft. S. and 20 ft. W. from T-rd. W., in fence, in concrete post; standard tablet stamped "T T Sta No 3 S 1927"

T. 52 N., R. 6 W., cor. secs. 25, 26, 35, and 36, 15 ft. S. and 15 ft. W. from T-rd. N., in corner fence post; nail

T. 52 N., R. 6 W., E. sixteenth cor. between secs. 26 and 35, 18 ft. N. and 90 ft. E. from T-rd. S., in schoolyard, in root on S. side of 26-in. maple tree; copper nail and washer

T. 52 N., R. 6 W., on line between secs. 26 and 35, 32 ft. N. and 30 ft. E. from T-rd. E., in W. side of 26-in. elm tree; nail

T. 52 N., R. 6 W., on line between secs. 26 and 27, 12 ft. N. and 6 ft. W. from T-rd. N., on head wall of culvert; chiseled square

Farber, 1.5 mi. S. of, near E. sixteenth cor. between secs. 28 and 33, T. 52 N., R. 6 W., E. of County Route AA at rd. W., in concrete post; standard tablet stamped "T T Sta No 2 S 1927"

T. 52 N., R. 6 W., cor. secs. 28, 29, 30, and 31, 7 ft. N. and 21 ft. E. from crossroads, on head wall of culvert; chiseled square

T. 52 N., R. 6 W., cor. secs. 29, 30, 31, and 32, 15 ft. S. and 12 ft. E. from crossroads, on head wall of culvert; chiseled square

Laddonia, 0.5 mi. N., thence 1 mi. E. from, cor. secs. 25, 30, 31, and 32, 10 ft. N. and 7 W., 18 ft. N. and 36 ft. W. from T-rd. W., in concrete post; standard tablet stamped "T T Sta No 2 S 1927"

Laddonia, 0.5 mi. N. of, cor. secs. 25, 26, 35, and 36, T. 52 N., R. 7 W., E. of County Route B at rd. S., in concrete post; on head wall of culvert; chiseled square

Farber, 0.5 mi. N. of, near E. sixteenth cor. between secs. 28 and 33, T. 52 N., R. 6 W., E. of County Route AA at rd. W., in concrete post; standard tablet stamped "T T Sta No 3 S 1927"

T. 52 N., R. 6 W., cor. secs. 28, 29, 30, and 31, 7 ft. N. and 21 ft. E. from crossroads, on head wall of culvert; chiseled square

T. 52 N., R. 6 W., on line between secs. 26 and 35, 32 ft. N. and 30 ft. E. from T-rd. E., in W. side of 26-in. elm tree; nail

T. 52 N., R. 6 W., on line between secs. 26 and 27, 12 ft. N. and 6 ft. W. from T-rd. N., on head wall of culvert; chiseled square
FLORIDA QUADRANGLE

(Latitude 39°15'-39°30'; longitude 91°15'-92°00')

Audrain and Monroe Counties

1. FROM MEXICO QUADRANGLE AT SEC. 36, T. 52 N., R. 9 W., WEST TO SKINNER (by D. W. Weber in 1929)


Reference mark, 880 ft. S. of tablet, on concrete culvert; chiseled square

T. 52 N., R. 9 W., in SW 1/4 sec. 25, on S. abutment of steel bridge over South Fork of Salt River; chiseled square


Skinner, 1.5 mi. E. of, near quarter cor. between secs. 27 and 28, T. 52 N., R. 9 W., 600 ft. W. of Clover Leaf stock farm, 8 ft. S. of rd., on top at center of concrete culvert; chiseled square

Skinner, 1.2 mi. E. of, on State Highway 15, in top of NW. wing wall of concrete bridge 3486 over Fish Branch; standard tablet stamped "No 1 W 1929 Mo"

Reference mark, 160 ft. E. of tablet, on top of concrete culvert; chiseled square

Skinner, 1.2 mi. E. of, on State Highway 15, 16 ft. S. and 77 ft. E. from N. end of bridge over Fish Branch, in concrete post; standard tablet

Skinner, 3 mi. E. of, center sec. 29, T. 52 N., R. 9 W., 17 ft. S. and 180 ft. W. from T-rd. N., on top of E. head wall of concrete culvert; chiseled square

Skinner, 2.5 mi. E. of, quarter cor. between secs. 29 and 30, T. 52 N., R. 9 W., 12 ft. N. and 670 ft. W. from T-rd. N., on top at center of concrete culvert; chiseled square

Skinner, 1.2 mi. E. of, in SW. cor. sec. 19, T. 52 N., R. 9 W., 10 ft. N. of rd., on top at center of concrete culvert; chiseled square

Skinner, cor. secs. 23, 24, 25, and 26, T. 52 N., R. 10 W., 23 ft. S. and 38 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 15 M 1926"

Reference mark, 210 ft. S. of tablet, on top of E. wall of concrete culvert; chiseled square

2. FROM MEXICO QUADRANGLE AT SEC. 30, T. 52 N., R. 8 W., EAST INTO FARBER QUADRANGLE AT POINT ABOUT 1.5 MILES SOUTH OF WORCESTER (by D. W. Weber in 1929)

Worcester, 1.5 mi. S., thence 1.8 mi. W. from, near cor. secs. 29, 30, 31, and 32, T. 52 N., R. 8 W., 12 ft. N. and 12 ft. E. from T-rd. S., 8 ft. E. of gate, in root on S. side of 15-in. boxelder tree; copper nail and washer

Worcester, 1.5 mi. S., thence 2.6 mi. W. from, on line between secs. 28 and 33, T. 52 N., R. 8 W., on top of S. head wall of concrete culvert; chiseled square

Worcester, 1.5 mi. S., thence 2.2 mi. W. from, cor. secs. 27, 28, 33, and 34, T. 52 N., R. 8 W., 23 ft. N. and 23 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 22 M 1926"

Reference mark, 750 ft. E. of tablet, in root of twin wild-cherry tree; copper nail and washer
Worcester, 1.5 mi. S., thence 0.5 mi. W. from near cor. secs. 26, 27, 34, and 35, T. 52 N., R. 8 W., 100 ft. W. of hedge fence S., on top of N. head wall of concrete culvert; chiseled square

Worcester, 1.5 mi. S. of, in SW 1/4 sec. 25, T. 52 N., R. 8 W., 0.5 mi. E. of crossroads, on top of SW. wing wall of small bridge; chiseled square

(Continued in Farber quadrangle; see line 1.)

3. FROM FARBER QUADRANGLE AT SEC. 36, T. 53 N., R. 8 W., NORTH INTO HUNNEWELL QUADRANGLE AT POINT ABOUT 0.5 MILE NORTHWEST OF FLORIDA (by J. H. Vinyard in 1934)

(Continued from Farber quadrangle; see line 2.)

T. 53 N., R. 8 W., cor. secs. 1 and 2, at T-rd. S., in root of 15-in. hedge tree; copper nail and washer

Tps. 53 and 54 N., R. 8 W., approximate quarter cor. between secs. 2 and 3, 20 ft. S. of T-rd. N., 97 ft. E. of 18-in. thorn tree, 2 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "66 C W A 1934"

Reference mark, 200 ft. E. of tablet, N. of rd., in root of 18-in. ash tree; copper nail and washer

T. 54 N., R. 8 W., near quarter cor. between secs. 26 and 35, NW. of crossroads, on N. head wall of culvert; chiseled square

T. 54 N., R. 8 W., near quarter cor. between secs. 23 and 26, SE. of crossroads, in root of 24-in. locust tree; copper nail and washer

Florida, 1 mi. S. of, near quarter cor. between secs. 9 and 10, T. 54 N., R. 8 W., State Highway 107, 200 ft. E. of farm entrance, in root of 15-in. oak tree; copper nail and washer

Florida, 0.5 mi. S. of, along State Highway 107, about 0.1 mi. E. of cor. of SE. road fork, at N. end of S. abutment of bridge over Salt River; standard tablet stamped "66 C W A 1934"

Reference mark, 600 ft. N. of tablet, 30 ft. N. of N. end of steel span, on W. curb of bridge; chiseled square

Florida, on State Highway 107, N. of stores at crossroad, in yard of dwelling W. of rd., in root of 36-in. maple tree; copper nail and washer

(Continued in Hunnewell quadrangle; see line 2.)

4. FROM FARBER QUADRANGLE AT SEC. 11, T. 53 N., R. 8 W., WEST BY WAY OF SANTA FE INTO MADISON QUADRANGLE AT SEC. 11

T. 53 N., R. 10 W. (by B. A. Barnes in 1935)

T. 55 N., R. 8 W., cor. secs. 11, 12, 13, and 14, 100 ft. N. and 15 ft. E. from County Route D at crossroad, in root of 14-in. elm tree; copper nail and washer

Concrete culvert, on S. head wall; chiseled square

Corner fence post, on concrete base; painted square

T. 55 N., R. 8 W., quarter cor. between secs. 10 and 15, 58 ft. N. and 2 ft. E. from County Route D at fence W., in concrete post; standard tablet stamped "1925 ERA 1935"

T. 55 N., R. 8 W., on line between secs. 10 and 15, at rd. fork E., in root of 14-in. white-oak tree; crossed nails

Santa Fe, about 1.8 mi. NE. of, in NE 1/4 sec. 16, T. 55 N., R. 8 W., on top of center of N. head wall of concrete culvert over Elm Creek; chiseled square

Santa Fe, about 1.4 mi. NE. of, in sec. 16, T. 55 N., R. 8 W., near T-rd. W., in yard of J. R. Smiley, in root on SW. side of 12-in. maple tree; crossed nails

Santa Fe, 1.1 mi. NE. of, near center sec. 16, T. 55 N., R. 8 W., in concrete wing wall of steel bridge over South Fork of Salt River; chiseled square


Santa Fe, 1.1 mi. SW. of, in NE 1/4 sec. 16, T. 55 N., R. 8 W., on NW. wing wall of steel bridge over Long Branch Creek; chiseled square

County Route D at rd. N., in root of 15-in. oak tree; crossed nails

T. 55 N., R. 9 W., near quarter cor. between secs. 12 and 13, on County Route D, 150 ft. W. of Peak School, on N. head wall of concrete culvert; chiseled square

T. 53 N., R. 9 W., cor. secs. 11, 12, 13, and 14, 36 ft. S. and 35 ft. W. from County Route D at crossroad, 2 ft. W. of fence, in concrete post; standard tablet stamped "1925 ERA 1935"

Foot

749.07

759.94

748.59

719.82

748.20

744.45

669.016

697.99

689.78

664.792

686.177

667.48

597.825

588.06

639.77

718.58

719.48

619.85

619.18

692.43

717.109

718.58

650.69

717.89
PART 6, NORTHEASTERN MISSOURI, 1896-1938

T. 53 N., R. 9 W., near quarter cor. between secs. 11 and 14, on N. head wall of concrete culvert; painted square
T. 53 N., R. 9 W., cor. secs. 10, 11, 14, and 15, 30 ft. N. and 160 ft. E. from County Route D at crossroad, in root of 20-in. elm tree; nail and washer
T. 53 N., R. 9 W., on line between secs. 10 and 15, at top of hill, in root of 8-in. maple tree; crossed nails
T. 53 N., R. 9 W., cor. secs. 9, 10, 15, and 16, 40 ft. N. and 90 ft. E. from County Route D at rd. S., in root of 22-in. oak tree; nail and washer

County Route D at rd. N., NE. of, in base of corner fence post; spike
County Route D at rd. S., 20 ft. E. of, on S. head wall of concrete culvert; chiseled square
T. 53 N., R. 9 W., on line between secs. 8 and 17, 36 ft. S. of County Route D at rd. N., 2 ft. S. of fence corner, in concrete post; standard tablet stamped "1926 B R A 1935"
T. 53 N., R. 9 W., sixteenth cor. between secs. 7 and 18, 20 ft. S. and 25 ft. W. from junction of State Highway 15 and County Route D, on center of S. head wall of concrete culvert; chiseled square

Crossroad, on SE. head wall of concrete culvert; chiseled square
Parts, 2.5 mi. S. of, on top of upstream end of S. pier of S. truss bridge over Elk Fork of Salt River; standard tablet (set by water-resources branch of U.S. Geol. Survey)
Parts, 1.5 mi. S. of, center of E. head wall of concrete culvert; chiseled square
Parts, 0.5 mi. S. of S. limits of, at junction of State Highway 26, on SW. head wall of concrete culvert under Highway 26; chiseled square
U.S.C. & G.S. standard disk stamped "J 133 1935"
U.S.C. & G.S. standard disk stamped "K 133 1935"
Parts, 10 ft. S. and 75 ft. W. from W. entrance to courthouse, in concrete sidewalk; standard tablet stamped "T T Sta No 16 M 1926 No 2"

(There may be a U.S.G.S. tablet stamped "T T 16 M 1926" 110 ft. E.)
T. 52 N., R. 10 W., S. sixteenth cor. between secs. 1 and 2, 40 ft. N. and 30 ft. W. from State Highway 15 at crossroad, on center of W. 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 "T T Sta No 16 M 1926 No 2"
(There may be a U.S.G.S. tablet stamped "T T 16 M 1926" 110 ft. E.)
T. 52 N., R. 10 W., S. sixteenth cor. between secs. 1 and 2, 40 ft. N. and 30 ft. W. from State Highway 15 at crossroad, on center of W. head wall of concrete culvert; chiseled square
T. 52 N., R. 10 W., on line between secs. 11 and 12, on NE. concrete wing wall of small bridge over Youngs Creek; chiseled square
Skinner, 2 mi. N. of, near cor. secs. 11, 12, 13, and 14, T. 52 N., R. 10 W., on NW. concrete wing wall of small bridge over branch; chiseled square
T. 52 N., R. 10 W., quarter cor. between secs. 13 and 14, SW. of T-rd. W., on concrete base of corner fence post; chiseled square

6. FROM SEC. 11, T. 53 N., R. 10 W., NORTH ALONG STATE HIGHWAY 15 TO PARIS, INCLUDING THAT PART OF THE LINE IN MADISON 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. W. Davis, on center of W. head wall of concrete culvert; chiseled square
Junction of rd. E.; surface of highway
T. 53 N., R. 10 W., near quarter cor. between secs. 14 and 35, near junction of rd. N., on S. head wall of concrete culvert; chiseled square
Parts, 4 mi. S. of, in NE 1/4 sec. 34, T. 54 N., R. 10 W., 25 ft. N. and 28 ft. E. from crossroad, in concrete post; standard tablet stamped "T T Sta No 18 M 1926"

Crossroad, on SE. head wall of concrete culvert; chiseled square
Parts, about 2.5 mi. S. of, on top of upstream end of S. pier of S. truss bridge over Elk Fork of Salt River; standard tablet (set by water-resources branch of U.S. Geol. Survey)
Parts, 1.5 mi. S. of, center of E. head wall of concrete culvert; chiseled square
Parts, 0.5 mi. S. of S. limits of, at junction of State Highway 26, on SW. head wall of concrete culvert under Highway 26; chiseled square
U.S.C. & G.S. standard disk stamped "J 133 1935"
U.S.C. & G.S. standard disk stamped "K 133 1935"
Parts, 10 ft. S. and 75 ft. W. from W. entrance to courthouse, in concrete sidewalk; standard tablet stamped "T T Sta No 19 M 1926"

T. 52 N., R. 10 W., near quarter cor. between secs. 13 and 14, SW. of T-rd. W., on concrete base of corner fence post; chiseled square
SPIRIT LEVELING IN MISSOURI

770

7. FROM PARIS NORTH ALONG U.S. HIGHWAY 24 INTO SHELBYINA QUADRANGLE (by Cornish Beck in 1936)

Paris, 0.6 mi. N. of, along U.S. Highway 24, 65 ft. S. and 62 ft. E. from crossroad, in telephone pole; nail (in Madison quadrangle, central Missouri)

(Continued in Hunnewell quadrangle; see line 6.)

For additional level lines along State Highways 15 and 26, refer to United States Coast and Geodetic Survey second-order line, Laddonia to Edina.

HUNNEWELL QUADRANGLE

(Latitude 39°30' -39°45'; longitude 91°40' -92°00')

Marion, Monroe, and Shelby Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1901-02)

Hunnewell, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail

Lakenan, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail

Lakenan, 0.5 mi. NW. of, along U.S. Highway 36, in SE 1/4 sec. 1, T. 56 N., R. 10 W., 166 ft. S. and 15 ft. W. from highway at fence; iron post stamped "728 Q"

T. 57 N., R. 10 W., in S 1/2 sec. 36, in W. face of stone foundation of dwelling of J. Clark; standard tablet stamped "739 Q (elevation doubtful)"

Hunnewell, in SW. corner of stone foundation of drug store of A. C. Spalding; standard tablet stamped "758 Q"

T. 57 N., R. 9 W., near S. quarter cor. sec. 35; iron post stamped "754 Q"

Hunnewell, 1.5 mi. NE. of, in SW 1/4 sec. 31, T. 57 N., R. 8 W., in N. face of stone foundation of dwelling of James Knollinook; standard tablet stamped "754 Q"

T. 55 N., R. 10 W., near N. quarter cor. sec. 1; iron post stamped "691.5 Q"

2. FROM FLORIDA QUADRANGLE AT SEC. 33, T. 55 N., R. 8 W., NORTHEAST, THERE TO NORTH MONROE CITY QUADRANGLE AT SEC. 2, T. 55 N., R. 8 W. (by J. H. Vinyard in 1934)

(Continued from Florida quadrangle; see line 3.)

Florida, 0.5 mi. NW. of, along State Highway 107, in SE 1/4 sec. 33, T. 55 N., R. 8 W., on S. end of E. curb of bridge over North Fork of Salt River; chiseled square

T. 55 N., R. 8 W., in N 1/2 sec. 33, at top of hill, in yard of farmhouse, in root of 24-in. oak tree; copper nail and washer

T. 55 N., R. 8 W., near NW. cor. sec. 33 (? NE 1/4 sec. 34), on NE. wing wall of steel bridge; chiseled square

T. 55 N., R. 8 W., near SW. cor. sec. 26, at angle in rd. NW., in root of 15-in. oak tree; nails

T. 55 N., R. 8 W., in NW 1/4 sec. 26, 0.2 mi. W. of schoolhouse, W. of T-rd., in root of 12-in. oak tree; copper nail and washer

*Accuracy doubtful because of insufficient connections.
PART 6, NORTHEASTERN MISSOURI, 1896-1938

T. 55 N., R. 8 W., quarter cor. between secs. 25 and 26, 19 ft. N. and 20 ft. E. from T-rd. N., 100 ft. W. of schoolhouse, in concrete post; standard tablet stamped "56 C W A 1935"

Reference mark, 400 ft. W. of tablet, in notch on W. side of 18-in. oak tree; copper nail and washer

T. 55 N., R. 8 W., in NE 1/4 sec. 14, near junction of private rd., W. of rd., in root of 15-in. hickory tree; copper nail and washer

T. 55 N., R. 8 W., cor. secs. 11, 12, 13, and 14, 23 ft. S. and 18 ft. E. from intersection of 2 ft. S. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "T 56 C W A 1935"

Reference mark, NW. of crossroads, on top of SE. corner of concrete foundation of fence post; (mark not described)

T. 55 N., R. 8 W., near SW. cor. sec. 1, 50 ft. N. of T-rd. E., W. of rd., in root of 24-in. elm tree; copper nail and washer

(Continued in Monroe City quadrangle; see line 2.)

3. FROM NEWARK QUADRANGLE AT SEC. 12, T. 57 N., R. 10 W., SOUTHWEST INTO SHELBINA QUADRANGLE AT SEC. 11, T. 57 N., R. 10 W.

(by J. H. Vinyard in 1934)

(Continued from Newark quadrangle; see line 3.)

T. 57 N., R. 10 W., near quarter cor. between secs. 12 and 13, 700 ft. W. of T-rd., 75 ft. N. of rd., in pasture, in root of 30-in. elm tree; copper nail and washer

T. 57 N., R. 10 W., near quarter cor. between secs. 11 and 12, at top of hill, N. of rd., 10 ft. inside pasture, in root of 30-in. elm tree; copper nail and washer

(Continued in Shelbina quadrangle; see line 2.)

4. FROM MONROE CITY QUADRANGLE WEST ALONG U.S. HIGHWAY 36 INTO SHELBINA QUADRANGLE (by Cornish Beck in 1936)

(Continued from Monroe City quadrangle; see line 7.)

T. 56 N., R. 8 W., near cor. secs. 10, 11, 12, and 15, 18 ft. N. and 10 ft. W. from crossroad on Monroe-Monroe county line, on head wall of culvert; chiseled square

T. 56 N., R. 8 W., cor. secs. 9, 10, 15, and 16, 29 ft. S. and 27 ft. E. from crossroad on Monroe-Monroe county line, in concrete post; standard tablet stamped "1535 ERA 1935"

T. 56 N., R. 8 W., near cor. secs. 8, 9, 16, and 17, 21 ft. S. and 15 ft. E. from junction of rd. S. on Marion-Monroe county line, on head wall of culvert; chiseled square

T. 56 N., R. 8 W., on line between secs. 7 and 8, 70 ft. N. and 20 ft. E. from junction of County Route X, on E. edge of pipe culvert; painted square

T. 56 N., R. 8 W., on line between secs. 7 and 12, on U.S. Highway 36 on Marion-Shelby county line, 20 ft. S. and 50 ft. W. from highway at fences N. and S., in concrete post; standard tablet stamped "1535 ERA 1935"

Hunnewell, 30 ft. S. of highway, 18 ft. W. of main cross street, on head wall of culvert; chiseled square

T. 56 N., R. 9 W., in N 1/2 sec. 11, 20 ft. N. and 45 ft. W. from junction of rd. of E. from crossroad on Monroe-Monroe county line, on head wall of culvert; chiseled square

T. 56 N., R. 9 W., on line between secs. 10 and 11, 20 ft. S. and 30 ft. E. from N-S. crossroad, on head wall of culvert; chiseled square

T. 56 N., R. 9 W., on line between secs. 9 and 10, in WM. plot of bridge over North Fork of Salt River; standard tablet (set by water-resources branch of U.S. Geol. Survey)

T. 56 N., R. 9 W., in NE 1/4 sec. 9, 100 ft. W. of bridge over North Fork of Salt River, 50 ft. S. and 25 ft. W. from highway at fences N. and S., in concrete post; standard tablet stamped "1536 ERA 1935"

Lakenan, 1 mi. E. of, in N 1/2 sec. 8, T. 56 N., R. 9 W., on S. head wall of culvert; chiseled square

Lakenan, 18 ft. N. and 12 ft. W. from junction of County Route T, on concrete pipe culvert; chiseled square

Lakenan, 8.8 mi. NW. of, in SE 1/4 sec. 1, T. 56 N., R. 10 W., 166 ft. S. and 15 ft. W. from highway at fence N.; iron post stamped "NL 4Q"

Reference mark, 50 ft. S. and 9 ft. W. from highway at fence N.; top of right-of-way post nail and washer

Junction of rd. S., 16 ft. S. and 15 ft. W. from, on concrete pipe culvert; chiseled square


T. 56 N., R. 10 W., on line between secs. 2 and 3, 21 ft. N. and 21 ft. E. from crossroad, on concrete base of corner post; chiseled square

(Continued in Shelbina quadrangle; see line 3.)
5. FROM POINT ABOUT 2 MILES WEST OF HUNNEWELL SOUTH TO STOUTSVILLE
(by Cornish Beck in 1936)

T. 56 N., R. 9 W., on line between secs. 10 and 15, 35 ft. W. of N.-S.
r. 21 ft. W. of E.-W. rd. on Monroe-Shelby county line, in root on north
side of 26-in. black-oak tree; copper nail and washer
T. 56 N., R. 9 W., near quarter cor. between secs. 15 and 22, 18 ft. S.
and 60 ft. W. from T-rd. N., in root on NW. side of 16-in. white-oak
tree; copper nail and washer
E. from rd. at fences E. and W., 29 ft. N. and 12 ft. E. from fence
corner, in concrete post; standard tablet stamped "T 21 C 1935"
T. 56 N., R. 9 W., in NW 1/4 sec. 27, 30 ft. N. of center of steel
bridge, in NE. side of 6-in. elm tree; nail
T. 56 N., R. 9 W., in SW. corner of cemetery fence, in root on E. side of 14-in.
hickory tree; copper nail and washer
T. 56 N., R. 9 W., in sec. 24, 15 ft. N. of rd. forks, in corner fence
post; nail
T. 56 N., R. 9 W., S. quarter cor. sec. 31, 17 ft. S. and 5 ft. W. from
T-rd. N., 2 ft. N. of fence, in concrete post; standard tablet stamped
"T 20 C 1935"
corner, in concrete post; standard tablet stamped "T 21 C 1935"
T. 55 N., R. 9 W., on line between secs. 2 and 3, 18 ft. S. and 7 ft. W.
from T-rd. E., on head wall of culvert; chiseled square
T. 55 N., R. 9 W., sixteenth cor. sec. 2, 25 ft. N. and 21 ft. W. from
T-rd. N., 8 ft. S. and 21 ft. W. from fence corner, in concrete post;
standard tablet stamped "T 21 C 1935"
T. 55 N., R. 9 W., in NE 1/4 sec. 11, 15 ft. N. and 110 ft. W. from rd.
corner S.-W., in root on N. side of 10-in. walnut tree; copper nail and
washer
T. 55 N., R. 9 W., in SW. corner of farmhouse of C. Scobee, 2 ft. inside fence,
in concrete post; standard tablet stamped "114.15 C W A 1931;"
T. 55 N., R. 9 W., about 0.7 mi. NE. of, 52 ft. N. and 245 ft. E.
from Junction of rd. N., 3 ft. inside fence, in concrete post;
standard tablet stamped "3419 C W A 1934" 
T. 55 N., R. 9 W., Bridge over Otter Creek, on E. head wall of
bridge, in concrete post; standard tablet stamped "1117 C W A 1934"
T. 55 N., R. 9 W., about 1.0 mi. NE. of, 65 ft. E. of junction of rd. S.,
on head wall of culvert; chiseled square

6. FROM SHELBYNA QUADRANGLE NORTHEAST ALONG U.S. HIGHWAY 24 INTO
MONROE CITY QUADRANGLE (by Cornish Beck in 1936)

(Continued from Florida quadrangle; see line 7.)

T. 55 N., R. 10 W., quarter cor. between secs. 34 and 35, 40 ft. N. and
35 ft. W. from Junction of rd. W., in E. side of telephone pole; nail
U.S.C. & G.S. standard disk stamped "M 135 1935"
T. 55 N., R. 10 W., quarter cor. between secs. 34 and 35, 40 ft. N. and
35 ft. W. from Junction of rd. W., in E. side of telephone pole; nail
U.S.C. & G.S. standard disk stamped "M 135 1935"
T. 55 N., R. 10 W., sixteenth cor. sec. 3, 25 ft. N. and 21 ft. W. from
T-rd. N., 11 ft. S. and 110 ft. W. from fence corner, in concrete post;
standard tablet stamped "T 21 C 1935"
T. 55 N., R. 10 W., in NE 1/4 sec. 11, 15 ft. N. and 110 ft. W. from rd.
corner S.-W., in root on N. side of 10-in. walnut tree; copper nail and
washer
T. 55 N., R. 10 W., G.1 mi. W. of, 16 ft. S. and 12 ft. E. from Junction of rd. S.,
on head wall of culvert; chiseled square
T. 55 N., R. 10 W., about 0.7 mi. NE. of, 52 ft. N. and 245 ft. E.
from Junction of rd. S., 3 ft. inside fence, in concrete post;
standard tablet stamped "1116 C W A 1935"
T. 55 N., R. 10 W., Bridge over Salt River, on SW. bolt of
guardrail on NW. wing wall; chiseled cross
T. 55 N., R. 10 W., G.1 mi. SW. of, 1,000 ft. NE. of bridge over Salt River, 60 ft.
E. of W.-W. crossroad, 2 ft. inside fence, in concrete post; standard
tablet stamped "1117 C W A 1934"
T. 55 N., R. 10 W., near cor. secs. 5, 6, 7, and 8, 69 ft. N. 214.° W. of
Ne. corner of junction of State Highway 107, 1/2 ft. E. of "Highway 107
at curve", 1 ft. inside fence, in concrete post; standard tablet stamped
"1118 C W A 1934"
T. 55 N., R. 10 W., on line between secs. 4 and 5, 25 ft. S. and 15 ft. E.
from W.-W. crossroad, on head wall of culvert; chiseled square
T. 55 N., R. 10 W., on line between secs. 3 and 4, 130 ft. E. of junction
of rd. N., on S. head wall of culvert; chiseled square
T. 55 N., R. 10 W., Indian Creek, 96 ft. W. from NW.-SE. crossroad, 60 ft. SW. of steel post
in fence corner, 2 ft. inside fence, in concrete post; standard tablet stamped
"1119 C W A 1934"
T. 55 N., R. 10 W., about 3.1 mi. NE. of, 75 ft. E. of junction of rd. N.,
on head wall of culvert; chiseled square

For additional level lines along Wabash Ry. and State Highway 15,
refer to United States Coast and Geodetic Survey second-order
lines, Hannibal to Salisbury and Laddonia to Edina.
PART 6, NORTHEASTERN MISSOURI, 1896-1958

NEWARK QUADRANGLE
(Latitude 39°14'-14.0'00'; longitude 91°14'-92°00')
Knox, Lewis, Marion, and Shelby Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Kees in 1901-02)

Argola, in front of post office, about 6 ft. from SW. corner, on large stone; cross

Cherrydell, approximate cor. secs. 19, 24, 25, and 30, T. 59 N., R. 8 and 9 W., 8 ft. N. of SW. corner of post office, in stone foundation; standard tablet stamped "695 Q"

Emeden, near quarter cor. between secs. 25 and 26, T. 58 N., R. 9 W., in SW. corner of stone foundation of Christian Church; standard tablet stamped "701.3 Q"

Sigabee, in sec. 14, T. 59 N., R. 9 W., at dwelling of D. J. Bevill, in S. side of stone foundation; standard tablet stamped "739 Q"

T. 59 N., R. 10 W., in SE 1/4 sec. 12, at dwelling of T. O. Moore, in SW. corner of stone foundation; standard tablet stamped "756 Q"

T. 58 N., R. 10 W., in SE 1/4 sec. 1, at dwelling of Charles Buckingham, in NE. corner of stone foundation; standard tablet stamped "740 Q"

2. FROM PALMYRA QUADRANGLE, AT WARREN, NORTH 1 MILE INTO PALMYRA QUADRANGLE (by J. H. Vinyard in 1931)

Warren, 32 ft. SW. of Main Street at rd. S., 70 ft. SW. of post office, in yard of dwelling of Dr. R. A. Terrell, in concrete post; standard tablet stamped "73 C W A 1931."
Reference mark, 300 ft. E. of tablet, in root of 24-in. maple tree;
copper nail and washer

Warren, about 0.5 mi. N. of, along Philadelphia-Warren rd., near quarter cor. between secs. 35 and 36, T. 58 N., R. 8 W., at bridge, in S. end of W. girder; top of inside rivet head

Warren, about 1 mi. N. of, near cor. secs. 25, 26, 35, and 36, T. 58 N., R. 8 W., opposite T-rd. E., in root of 30-in. elm tree; copper nail and washer

(Continued in Palmyra quadrangle; see line 2.)

3. FROM WARREN WEST INTO HUNEWEEL QUADRANGLE AT SEC. 12, T. 57 N., R. 10 W. (by J. H. Vinyard in 1934)

Warren, 1.2 mi. W. of, near quarter cor. between secs. 3 and 4,
T. 57 and 58 N., R. 8 W., 350 ft. E. of T-rd. S., W. of rd., in root of 24-in. elm tree; (mark not described)

Reference mark, on NW. corner of concrete entrance to church; chiseled square

T. 57 N., R. 8 W., near SW. cor. sec. 23, E. of store, on SE. corner of well top; chiseled square

T. 57 N., R. 8 W., in SE 1/4 sec. 5, 0.2 mi. N. of County Route K at rd. W., in root of 30-in. black-oak tree; crossed nails

T. 57 N., R. 8 W., sixteenth cor. between secs. 5 and 6, about 0.5 mi. W. of County Route K, 25 ft. S. of rd., in concrete post; standard tablet stamped "81 C W A 1931."

*Accuracy doubtful because of insufficient connections.
Spirit Leveling in Missouri

Reference mark, about 650 ft. E. of tablet, in root of 20-in. elm tree; copper nail and washer

T. 57 N., R. 8 W., near quarter cor. between secs. 6 and 7, about 750 ft. N. of farmhouse, in root of 27-in. black-oak tree; copper nail and washer

T. 57 N., R. 9 W., near quarter cor. between secs. 1 and 12, in front of farmhouse of E. Couch, in root of 20-in. elm tree; copper nail and washer

T. 57 N., R. 9 W., cor. secs. 1, 2, 11, and 12, 600 ft. W. of crossroads, 600 ft. E. of entrance to farm, in base of 24-in. black-oak tree; copper nail and washer

T. 57 N., R. 9 W., cor. secs. 2, 3, 10, and 11, 20 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "62 C W A 1934"

Reference mark, E. of tablet, SE. of crossroads, in root of 15-in. tree; copper nail and washer

T. 57 N., R. 9 W., near cor. secs. 3, 4, 9, and 10, 200 ft. W. of farmhouse, N. of rd., in pasture, in root of twin 15-in. oak tree; copper nail and washer

T. 57 N., R. 9 W., near cor. secs. 4, 5, 8, and 9, about 150 ft. NE. of County Route T at crossroad, in root on S. side of 24-in. hickory tree; copper nail and washer

T. 57 N., R. 9 W., near cor. between secs. 8 and 9, E. of County Route T at rd. W., in concrete post; standard tablet stamped "63 C W A 1934"

Reference mark, 600 ft. W. of tablet, in root of 18-in. white-oak tree; copper nail and washer

T. 57 N., R. 9 W., near quarter cor. between secs. 7 and 8, 70 ft. S. of T-rd. W., in root of 24-in. oak tree; copper nail and washer

T. 57 N., R. 9 W., in sec. 7, in anchor at W. end of N. truss of bridge over Black Creek; top of outside lag screw
PART 6, NORTHEASTERN MISSOURI, 1896-1935

T. 59 N., R. 10 W., near E. sixteenth cor. sec. 26, 26 ft. S. and 10 ft. E. from post, on E. end of concrete culvert; chiseled square


T. 59 N., R. 10 W., near quarter cor. between secs. 26 and 27, 27 ft. S. and 15 ft. W. from crossroads, on S. head wall of concrete culvert; chiseled square

(Continued in Shelbyville quadrangle; see line 2.)

5. FROM SEC. 35, T. 59 N., R. 8 W., NORTH INTO PALMYRA QUADRANGLE

AT SEC. 23, T. 60 N., R. 8 W. (by A. R. Friend in 1936)

Philadelphia, about 3 mi. N. and 0.5 mi. W. from, along County Route N, at SW. cor. of bridge over South Fabius River, on top of concrete abutment; chiseled square

(For balance in Palmyra quadrangle, see line 6.)

T. 59 N., R. 8 W., in NW 1/4 sec. 21, 24 ft. S. and 270 ft. E. from County Route N at rd. N., S. of highway, in root on N. side of 18-in. water-oak tree; copper nail and washer

County Route N at crossroad, in corner fence post; nail

T. 59 N., R. 8 W., in NE 1/4 sec. 14, 6.5 mi. S. and 2.5 mi. W. from Ewing, 270 ft. E. and 37 ft. E. from County Route N at crossroad, in concrete post; standard tablet

T. 59 N., R. 8 W., near quarter cor. between secs. 11 and 14, 100 ft. N. and 150 ft. E. from SW. cor. of County Route D at rd. E., on concrete step of New Providence Presbyterian Church; chiseled square

T. 59 N., R. 8 W., near cor. secs. 11, 13, 14, and 16, 30 ft. S. and 20 ft. W. from crossroads, in top of 10-in. stump; copper nail and washer

(Continued in Palmyra quadrangle; see line 6.)

6. FROM SHELBYVILLE QUADRANGLE AT SEC. 22, T. 60 N., R. 10 W., EAST TO SEC. 11, T. 60 N., R. 8 W. (by F. Y. Brown in 1936)

(Continued from Shelbyville quadrangle; see line 7.)

Newark, 1.5 mi. SW. of, along County Route B, 50 ft. N. of junction of rd. S., about 200 ft. E. of Strock farmhouse; iron post stamped "Prim Trav Sta No 5 1905"

Reference mark, 200 ft. W. of, 50 ft. S. of SW. cor. of farmhouse, in root on E. side of 30-in. maple tree; copper nail and washer

Bridge S-952 over South Fabius River, on N. end of E. abutment; chiseled square

Newark, 0.8 mi. W. of, along County Route B, 40 ft. N. and 55 ft. W. from junction of rd. N., in root on E. side of 20-in. black-oak tree; copper nail and washer


Newark, at SE. cor. of square, 100 ft. N. and 100 ft. W. from street intersection, 5 ft. W. of sidewalk, in root on N. side of 22-in. elm tree; copper nail and washer

Steel bridge over Myers Branch, on N. corner of W. abutment; chiseled square

Newark, 0.6 mi. E. of, along County Route B, 200 ft. W. of junction of rd. S., 40 ft. W. of highway, in fence line, in root on S. side of 30-in. locust tree; copper nail and washer

Newark, about 1 mi. E. of, along County Route B, 310 ft. E. of junction of rd. S., 25 ft. N. of highway, in root on W. side of 16-in. elm tree; copper nail and washer

Newark, 1.5 mi. E. of, along County Route B, 30 ft. S. of junction of rd. N., in concrete post; standard tablet stamped "3 B 1936"

Bridge, on W. end of S. catwalk; chiseled square

County Route B at crossroad, 800 ft. W. of, 15 ft. N. of highway, on W. end of N. catwalk of bridge; chiseled square

T. 60 N., R. 9 W., cor. secs. 16, 17, 20, 21, 100 ft. N. and 150 ft. W. from junction of County Route B and D, at SW. cor. of yard of Brushy School, in root on N. side of 16-in. hickory tree; copper nail and washer

T. 60 N., R. 9 W., near quarter cor. between secs. 16 and 17, 165 ft. N. and 110 ft. E. from County Route D at rd. E., in field of Francis Byer, in root on S. side of 18-in. elm tree; copper nail and washer

(For balance in La Belle quadrangle; see line 3.)
T. 60 N., R. 9 W., near center sec. 15, 20 ft. N. of entrance to farmyard of W. Zuppan, 25 ft. E. of rd., 60 ft. SW. of SW. corner of dwelling, in root on S. side of 12-in. elm tree; copper nail and washer

Farmhouse of William E. Jones, 125 ft. NW. of NW. corner of, 100 ft. S. of rd., 15 ft. W. of entrance to farm, in root on W. side of 18-in. oak tree; copper nail and washer


T. 60 N., R. 9 W., near center of SE 1/4 sec. 13, 140 ft. NW. of T-rd. E., 100 ft. W. of rd., in farmyard of Frank Gutchfield, in root on S. side of 36-in. white-oak tree; copper nail and washer

Farmhouse of William E. Jones, 115 ft. NE. of NE. corner of, 100 ft. S. of rd., 12 ft. W. of entrance to farm, in root on W. side of 18-in. elm tree; nail and washer

T. 60 N., R. 9 W., sec. 13, 14, 23, 24, 25 ft. N. of W. of, in root on S. side of 12-in. elm tree; copper nail and washer

T. 60 N., R. 10 W., quarter cor. sec. 18, 150 ft. NW. of cor. secs. 22, 23, 26, and 27; about 250 ft. S. of Little Fabius River, 50 ft. S. of gate to Nelson Cemetery, in root on E. side of 26-in. white-oak tree; copper nail and washer

T. 60 N., R. 10 W., quarter cor. between secs. 16 and 17, 77 ft. NW. of SE. corner of Oyster Prairie Grange and Community House, 50 ft. S. and 195 ft. W. from crossroads, in concrete post; standard tablet

Dwelling of Fred Schrader, 45 ft. E. of private drive, 60 ft. N. of rd., in root on S. side of 16-in. elm tree; nail and washer

Farmhouse of Milton Smith, 100 ft. S. of SE. corner of, 35 ft. N. of rd., in root on S. side of 30-in. maple tree; copper nail and washer

Small wooden bridge, 90 ft. S. of, in root on N. side of 24-in. elm tree; nail and washer

T. 60 N., R. 8 W., quarter cor. between secs. 14 and 15, 150 ft. N. of T-rd. E., 65 ft. E. of rd., in root on W. side of 12-in. cedar tree; copper nail and washer

Highland School, 100 ft. S. and 35 ft. E. from, 40 ft. N. of rd., in root on S. side of 30-in. black-oak tree; crossed nails

(Continued in Canton quadrangle; see line 6.)

7. FROM SEC. 22, T. 60 N., R. 10 W., SOUTH INTO SHELBYVILLE QUADRANGLE AT SEC. 3, T. 59 N., R. 10 W. (by Fr. Y. Brown in 1936)

Top of hill, at N. edge of field, in root on W. side of 10-in. elm tree; crossed nails

T. 60 N., R. 10 W., 150 ft. NW. of cor. secs. 22, 23, 26, and 27; about 250 ft. S. of Pebus River, 50 ft. S. of gate to Nelson Cemetery, in root on E. side of 26-in. white-oak tree; copper nail and washer

T. 60 N., R. 10 W., quarter cor. between secs. 26 and 27, 140 ft. N. of T-rd. W., 15 ft. E. of rd., in fence line, in root on W. side of 12-in. cedar tree; copper nail and washer

T. 60 N., R. 10 W., cor. secs. 26, 27, 34, and 35, 15 ft. N. and 170 ft. E. from crossroads, 30 ft. S. and 20 ft. E. from SE. corner of farmhouse of Walter Mauck, in root on S. side of 10-in. boxelder tree; copper nail and washer

Bridge, at SE. corner of; surface of floor

Rd. corner from W.-N., 75 ft. W. of, 15 ft. N. of rd., in root on W. side of 10-in. elm tree; crossed nails

Tps. 59 and 60 N., R. 10 W., E. sixteenth cor. between secs. 3 and 34, 13 mi. E. from Bethel, 27 ft. S. and 33 ft. W. from T-rd. S. on Knox-Shelby county line, in corner of field, in concrete post; standard tablet stamped "T T 2 1935"

T. 60 N., R. 10 W., near E. sixteenth cor. sec. 3 (?), 40 ft. S. and 20 ft. W. from crossroads, in root on S. side of 14-in. elm tree; copper nail and washer

Bridge, on S. corner of S. head wall; chiseled square

(Continued in Shelbyville quadrangle; see line 5.)

8. FROM SEC. 2, T. 58 N., R. 8 W., EAST ALONG COUNTY ROUTE N INTO PALMYRA QUADRANGLE (by W. V. Kennedy in 1937)

County Route N at rd. W., on S. head wall of concrete culvert; chiseled square

(Continued in Palmyra quadrangle; see line 7.)
La BELLE QUADRANGLE
(Latitude \(40^\circ00'-40^\circ15'\); longitude \(91^\circ14.5'-92^\circ00'\))
Knox and Lewis Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1900)

- T. 60 N., R. 8 W., in SE 1/4 NE 1/4 sec. 10, on property of William Jusram; iron post stamped "681 A" 682.005
- T. 60 N., R. 9 W., on line between secs. 8 and 9, on property of W. S. Piner, W. of County Route D, 10 ft. S. of entrance to farm; iron post stamped "681 A" 681.529
- Lewistown, at SE. corner of Main and Elm Streets, on bank building; aluminum tablet stamped "725 A" (C.A.G.S. recovery gives post office and 721 A) 724.690
- T. 62 N., R. 9 W., in NE 1/4 sec. 20, in SE. corner of yard of H. P. Gregory; iron post stamped "671 A" 736.017
- La Belle, in NW. corner of stone foundation of bank; aluminum tablet stamped "738 A" 721.090
- T. 62 N., R. 9 W., quarter cor. between secs. 28 and 29, 21 ft. N. and 23 ft. W. from crossroad; iron post stamped "709 A" 709.925

2. FROM LEWISTOWN EAST ALONG STATE HIGHWAY 96 INTO CANTON QUADRANGLE (by A. R. Friend in 1936)

- U.S.C. & G.S. standard disk stamped "M 15 1933" 725.028
- Lewistown, about 0.5 mi. E. of, 500 ft. W. of Junction of State Highway 6, 50 ft. S. and 20 ft. W. from Highway 6 at rd. S., on W. head wall of concrete culvert; chiseled square 705.51
- Junction of rd. N., in NW. corner of farmyard, in top of concrete right-of-way post; nail 719.12
- Lewistown, about 2 mi. E. of, at entrance to county farm, on W. concrete head wall of culvert; chiseled square 698.03
- Crossroad, on W. concrete head wall of culvert; chiseled square 675.66
- Lewistown, 3.2 mi. E. of, 150 ft. N. and 700 ft. E. from R.-S. crossroad, 45 ft. S. of highway, in concrete post; standard tablet stamped "1128 CWA 1934" 637.454

(Continued in Canton quadrangle; see line 2.)

3. FROM NEWARK QUADRANGLE AT SEC. 8, T. 60 N., R. 9 W., EAST INTO NEWARK QUADRANGLE AT SEC. 10, T. 60 N., R. 9 W. (by F. Y. Brown in 1936)

(Continued from Newark quadrangle; see line 6.)

- Rd., 25 ft. S. of, in root on E. side of 20-in. elm tree; crossed nails 735.28
- T. 60 N., R. 9 W., near center sec. 10, 585 ft. S. of crossroads, 40 ft. E. of rd., in field, in root on W. side of 20-in. black-oak tree; copper nail and washer 692.42

(Continued in Newark quadrangle; see line 6.)

*Accuracy doubtful because of insufficient connections.
SPIRIT LEVELING IN MISSOURI

4. FROM SEC. 12, T. 60 N., R. 10 W., NORTH AND WEST INTO EDINA QUADRANGLE AT SEC. 10, T. 60 N., R. 10 W. (by F. Y. Brown in 1956)

T. 60 N., R. 10 W., near W. sixteenth cor. sec. 14, 20 ft. E. of rd. corner from S.-W., in root on S. side of 14-in. hickory tree; copper nail and washer

T. 60 N., R. 10 W., cor. secs. 10, 11, 14, and 15, 500 ft. S. and 55 ft. E. from crossroads, 30 ft. S. and 3 ft. W. from SE. corner of Fruithill School, in root on W. side of 14-in. hickory tree; copper nail and washer

(Continued in Edina quadrangle; see line 3.)

5. FROM WYACONDA QUADRANGLE AT SEC. 22, T. 63 N., R. 8 W., SOUTH TO POINT ABOUT 3.2 MILES EAST OF LEWISTOWN (by F. Y. Brown in 1937)

(Continued from Wyaconda quadrangle; see line 5.)

Steel bridge, at N. end of, 60 ft. W. of rd., in root on N. side of 14-in. black-oak tree; crossed nails

Willimawstow, 0.5 mi. E. of, cor. secs. 22, 23, 26, and 27, T. 65 N., R. 8 W., 96 ft. N. and 15 ft. E. from crossroads, 4 ft. E. of fence, in concrete post; standard tablet stamped "T T 116 C 1936"

Reference mark, 0.2 mi. S. of, on W. head wall of concrete culvert, 1 ft. S. of S. end; chiseled square


T. 62 N., R. 8 W., near N. sixteenth cor. between secs. 2 and 3, about 1/40 ft. S. of County Route A at rd. NE., about 700 ft. N. of rd. NW., 15 ft. E. of highway, on center of S. head wall of concrete culvert; chiseled square

County Route A, 1/5 ft. E. of, in farmyard of E. G. Tompkins, in root on N. side of 16-in. maple tree; crossed nails

T. 62 N., R. 8 W., near cor. secs. 10, 11, 14, and 15, 25 ft. N. and 30 ft. E. from T-rd. E., in root on N. side of 12-in. wild-cherry tree; copper nail and washer

Rd. corner from S.-E., 60 ft. N. of, 60 ft. S. of old Price farmhouse, in root on S. side of 30-in. maple tree; crossed nails

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

T. 62 N., R. 8 W., near quarter cor. between secs. 15 and 22, on S. bank of North Fabius River, on bolt head on top of NW. corner of E. pier of steel bridge (bridge washed away); chiseled square

North Fabius River, 20 ft. N. of, 15 ft. E. of, in S. side of willow tree; nail

T. 62 N., R. 8 W., in NE 1/4 sec. 22, 15 ft. S. and 1/5 ft. W. from T-rd. at S. edge of North Fabius River valley, in fence line, in root on W. side of 16-in. white-oak tree; copper nail and washer


T. 62 N., R. 8 W., in E 1/2 sec. 22, 25 ft. E. of rd. corner from S.-W., in root on W. side of 10-in. hickory tree; copper nail and washer

Top of hill, 55 ft. W. of rd., 115 ft. S. of old dwelling, in root on E. side of 16-in. elm tree; crossed nails

T. 62 N., R. 8 W., in SE 1/4 sec. 27, 50 ft. S. and 15 ft. E. of SE. corner of Reynolds School, 60 ft. E. of, in root on S. side of 18-in. post-oak tree; copper nail and washer

T. 62 N., R. 8 W., in NE 1/4 sec. 24, 60 ft. S. and 30 ft. W. from T-rd. N., in farmyard of W. H. Robert, on top of E. side of concrete well top; chiseled square


T. 61 N., R. 8 W., near center sec. 2, 15 ft. S. and 15 ft. E. from crossroads, in root on E. side of 22-in. elm tree; copper nail and washer

T. 61 N., R. 8 W., near center sec. 11, 100 ft. W. of rd., in farmyard, in root on S. side of 14-in. cedar tree; copper nail and washer

(For balance in Wyaconda quadrangle, see line 6.)

6. FROM POINT 1.5 MILES EAST OF WILLIAMSTOWN WEST INTO EDINA QUADRANGLE AT SEC. 22, T. 63 N., R. 10 W. (by F. Y. Brown in 1937)

Williamstown, 1.5 mi. E. of, near quarter cor. between secs. 22 and 27, T. 63 N., R. 8 W., 6 ft. S. of rd., on corner of E. head wall of concrete culvert; chiseled square

Farmhouse, 55 ft. NW. of, in root on N. side of 16-in. elm tree; crossed nails

Willimawstow, about 1 mi. W. of, near W. sixteenth cor. between secs. 20 and 29, T. 63 N., R. 8 W., about 800 ft. S. of crossroads, 15 ft. N. of rd., on NW. corner of S. head wall of small bridge; chiseled square


767.60
723.14
650.07
697.65
PART 6, NORTHEASTERN MISSOURI, 1896-1938

Williamstown, about 2.5 mi. W. of, in NE 1/4 sec. 25, T. 63 N., R. 9 W., 20 ft. N. and 55 ft. E. from rd. forks, in root on S. side of 18-in. walnut tree; copper nail and washer

T. 65 N., R. 9 W., in NW 1/4 sec. 25, on top of pier at NE. corner of bridge over North Pablus River, on top of bolt head; chiseled square

Williamstown, 3.3 mi. W. of, quarter cor. between secs. 25 and 26, T. 63 N., R. 9 W., 10 ft. S. and 20 ft. E. from T-rd. W., in concrete post; standard tablet stamped "T T 123 C 1936"


T. 65 N., R. 9 W., near W. sixteenth cor. between secs. 26 and 35, 15 ft. S. and 12 ft. E. from T-rd. W., in root on N. side of 8-in. walnut tree; copper nail and washer


T-rd. N., 15 ft. S. and 135 ft. E. from, in root on N. side of 8-in. wild-cherry tree; copper nail and washer

T. 65 N., R. 9 W., in sec. 28, 25 ft. N. and 4.5 ft. W. from T-rd. S., in SE. corner of barnyard, in root on N. aide of 11-in. elm tree; copper nail and washer

Barn, at SW. corner of, 52 ft. N. of rd., on top of NE. corner of concrete cistern; chiseled square

Concrete culvert, on S. end of W. head wall; chiseled square

(For balance in Wyaconda quadrangle, see line 8.)

T. 65 N., R. 10 W., near quarter cor. between secs. 22 and 27, 25 ft. S. and 110 ft. W. from T-rd. N., in fence corner, in root on E. side of 26-in. elm tree; copper nail and washer

(Continued in Edina quadrangle; see line 6.)

For an additional level line along Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order line, Quincy, Ill. to Milan, Mo.

WYACONDA QUADRANGLE
(Latitude 40°15'-40°30'; longitude 91°14.5'-92°00'

Clark, Knox, Lewis, and Scotland Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1900)

Colony, 0.5 mi. SE. of, near center sec. 25, T. 65 N., R. 10 W., in N. foundation of dwelling of H. S. Coleman; standard tablet stamped "714.5 A"

Neeser, in SE. corner of churchyard; iron post stamped "730 A"

Fairmont, in SW 1/4 sec. 21, T. 65 N., R. 9 W., in NE. corner of public square; iron post stamped "709 A"

Medill, in front of R.R. sta.; top of rail

Medill, 10 ft. S. and 68 ft. W. from crossing of Atchison, Topeka & Santa Fe Ry. and Chicago, Burlington & Quincy R.R., in SW. side of concrete base of semaphore; standard tablet stamped "709 A"

Feet

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SPIRIT LEVELING IN MISSOURI

T. 66 N., R. 8 W., quarter cor. between secs. 28 and 33, 21 ft. N. and 31 ft. E. from T-rd. S., in SE. corner of yard of J. O. Murphy; iron post stamped "715 A".
T. 66 N., R. 9 W., quarter cor. between secs. 28 and 29, on property of J. S. Snyder; iron post stamped "713 A".
Granger, in SW. corner of foundation of Granger Exchange Bank; standard tablet stamped "761 A".

2. FROM SEC. 8, T. 65 N., R. 8 W., WEST ALONG STATE HIGHWAY K TO SEC. 11, T. 65 N., R. 10 W. (by E. A. Barnes in 1936)
T. 66 N., R. 8 W., in SW 1/4 sec. 8, 45 ft. S. and 45 ft. E. from crossroad, in concrete post; standard tablet stamped "1515 E R A 1935".
T. 65 N., R. 9 W., quarter cor. between secs. 11 and 12, 45 ft. S. and 21 ft. E. from junction of rd. E., in concrete post; standard tablet stamped "713 A 1935".
T. 66 N., R. 9 W., in NE 1/4 sec. 8, 45 ft. S. and 175 ft. E. from junction of County Route A, in concrete post; standard tablet stamped "1513 E R A 1935".
T. 65 N., R. 10 W., E. sixteenth cor. sec. 11, 45 ft. S. and 30 ft. W. from crossroad, in concrete post; standard tablet stamped "1512 E R A 1935".

3. FROM MEDILL EAST ALONG STATE HIGHWAY K INTO KAHOCA QUADRANGLE (by E. A. Barnes in 1936)
U.S.C. & G.S. standard disk stamped "U 85 1935".
T. 66 N., R. 8 W., center see. 22, 160 ft. N. and 160 ft. E. from rd. corner N.-W., 130 ft. SW. of highway at curve, in concrete post; standard tablet stamped "1516 ERA 1935".
T. 66 N., R. 9 W., near W. sixteenth cor. between sees. 2 and 3, 600 ft. N. and 35 ft. E. from T-rd. N., 50 ft. W. of farmhouse, in concrete post; standard tablet stamped "T T C 112 C 1936".

4. FROM POINT ABOUT 2 MILES EAST OF LURAY WEST TO LURAY, THENCE NORTH, THENCE EAST INTO KEOUSAQUA QUADRANGLE AT SEC. 35, T. 66 N., R. 8 W. (by F. Y. Brown in 1936)
Top of ridge, 35 ft. N. of rd., in root on S. side of 26-in. white-oak tree; crossed nails.
Bridge, 35 ft. E. of rd., in concrete post; standard tablet stamped "1511 C 1935".
Top of ridge, 25 ft. N. of rd., 300 ft. E. of double curve, in concrete post; standard tablet stamped "1512 C 1935".

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

Accuracy doubtful because of insufficient connections.
5. FROM KAHOKA QUADRANGLE AT SEC. 2, T. 61 N., R. 8 W., SOUTH INTO LA BELLE QUADRANGLE AT SEC. 14, T. 63 N., R. 8 W. (by P. Y. Brown in 1936) (Continued from Kahoka quadrangle; see line 8.)

Tps. 614. and 65 N., R. 8 W., near W. sixteenth cor. between secs. 2 and 5, 25 ft. E. and 25 ft. S. from T-rd. S., on center of W. head wall of concrete culvert; chiseled square


T. 61 N., R. 8 W., in W 1/2 sec. 11, 240 ft. S.W. of Union School, 30 ft. E. of rd., on NW. corner of concrete well top; chiseled square

T. 61 N., R. 8 W., sixteen cor. between secs. 11 and 12, 60 ft. N. and 20 ft. W. from T-rd. N., in root on W. side of twin 8-in. wild-cherry tree; copper nail and washer

T. 61 N., R. 8 W., on line between secs. 10 and 15, 15 ft. S. of rd. corner E.-S., on concrete block; chiseled square

Farmhouse of Fred Miller, 30 ft. E. of rd., in fence line, in root on W. side of 30-in. maple tree; copper nail and washer

Farmhouse of Fred Miller, 30 ft. E. of rd., in fence line, in root on W. side of 30-in. white-oak tree; copper nail and washer

T. 61 N., R. 8 W., near center sec. 34, 700 ft. S. of crossroads, 310 ft. N.E. of farmhouse, 30 ft. E. of rd., in hedge fence, in root on W. side of 10-in. hedge tree; copper nail and washer

Steel bridge over small creek, on top of bolt head at top of N. pier at T-rd. E., in root on W. side of twin 14-in. oak tree; copper nail and washer

T. 61 N., R. 8 W., quarter cor. between secs. 10 and 11, 130 ft. S. and 25 ft. E. from T-rd. E., in root on W. side of twin 14-in. black-oak tree; copper nail and washer

T. 61 N., R. 8 W., quarter cor. between secs. 14 and 15, 14 ft. E. of T-rd. W., 100 ft. SW. of large barn, on base on W. side of concrete watering tank; chiseled square

(Continued in Kahoka quadrangle; see line 7.)


T. 61 N., R. 8 W., in N 1/2 sec. 27, 110 ft. S. and 20 ft. E. from T-rd. S., in root on S. side of 14-in. hickory tree; copper nail and washer

T. 61 N., R. 8 W., near N. sixteenth cor. between secs. 26 and 27, 30 ft. S. and 10 ft. E. from T-rd. S., in root on W. side of 18-in. white-oak tree; copper nail and washer


(Continued in Kahoka quadrangle; see line 7.)
7. FROM SEC. 22, T. 64 N., R. 8 W., WEST INTO MEMPHIS QUADRANGLE AT SEC. 11, T. 64 N., R. 10 W. (by F. Y. Brown in 1937)

T. 63 N., R. 8 W., on line between secs. 21 and 28, 15 ft. S. and 65 ft. W. from T-rd. N., in root on N. side of 32-in. black-oak tree; copper nail and washer

Kinkade triangulation sta.; U.S.C. & G.S. standard disk stamped "Kinkade 1934"

U.S.C. & G.S. standard reference disk stamped "Kinkade No 1 1934"

U.S.C. & G.S. standard reference disk stamped "Kinkade No 2 1934"

T. 63 N., R. 8 W., quarter cor. between secs. 20 and 21, 20 ft. N. and 250 ft. E. from crossroads, in farmyard, in root on N. side of 1/4-in. maple tree; copper nail and washer

T. 63 N., R. 8 W., near center sec. 20, 15 ft. N. and 200 ft. W. from T-rd. S., in root on S. side of 1/4-in. post oak tree; copper nail and washer

T. 63 N., R. 8 W., in NE 1/4 sec. 19, 135 ft. N. and 25 ft. W. from T-rd. N., in root on S. side of 30-in. mulberry tree; copper nail and washer

T. 64 N., R. 9 W., in sec. 19, 15 ft. N. of rd., in SE. corner of farmyard, in root on S. side of 1/4-in. elm tree; crossed nails

T. 63 N., R. 8 W., near quarter cor. between secs. 19 and 21, 25 ft. S. and 60 ft. E. from T-rd. E., in farmyard, in root on N. side of 16-in. pine tree; copper nail and washer

T. 64 N., R. 9 W., in NE 1/4 sec. 20, 100 ft. N. of rd., in farmyard, on concrete cistern top; chiseled square

T. 64 N., R. 9 W., in NW 1/4 sec. 20, 15 ft. S. and 10 ft. E. from rd., 21 ft. N. and 42 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 107 C 1936"

T. 64 N., R. 9 W., in W 1/2 sec. 15, 40 ft. S. and 15 ft. W. from T-rd. E., on center of S. head wall of concrete culvert; chiseled square

T. 64 N., R. 9 W., near cor. secs. 11, 12, 13, and 14, 25 ft. S. and 75 ft. E. from T-rd. W., 10 ft. E. of W.-S. fence, in root on N. side of 8-in. hedger; copper nail and washer

Grain shed, at SE. end of, 15 ft. N. of rd., in root on S. side of 10-in. elm tree; crossed nails

T. 64 N., R. 9 W., in E. sixteenth cor. between secs. 20 and 21, 250 ft. S. and 60 ft. E. from T-rd. E., in farmyard, in root on N. side of 16-in. pine tree; copper nail and washer

T. 64 N., R. 9 W., near quarter cor. between secs. 19 and 24, 25 ft. S. and 90 ft. E. from crossroads, in root on W. side of 16-in. hedger tree; copper nail and washer

T. 64 N., R. 9 W., near cor. secs. 9, 10, 15, and 16, 15 ft. S. and 250 ft. E. from crossroads, in root on W. side of 16-in. hedger tree; copper nail and washer


T. 64 N., R. 9 W., quarter cor. between secs. 9 and 16, 15 ft. S. and 15 ft. E. from crossroads, on center of S. head wall of concrete culvert; chiseled square

Top of hill, 25 ft. S. of rd., in farmyard, in root on N. side of 20-in. maple tree; crossed nails

T. 64 N., R. 9 W., near cor. secs. 7, 8, 17, and 18, 90 ft. N. and 20 ft. E. from T-rd. E., in root on W. side of 30-in. locust tree; nail and washer

T. 64 N., R. 9 W., cor. secs. 17, 18, 19, and 20, 15 ft. S. and 34 ft. W. from T-rd. W., 1 ft. N. and 15 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 105 C 1936"

T. 64 N., R. 9 W., in W 1/2 sec. 15, 40 ft. S. and 15 ft. W. from T-rd. E., on center of S. head wall of concrete culvert; chiseled square

T. 64 N., R. 9 W., in S. sixteenth cor. between secs. 13 and 16, 15 ft. S. and 20 ft. E. from T-rd. E., on S. end of concrete fence corner wall, 1 ft. above ground; chiseled square

T. 64 N., R. 9 W., near cor. secs. 7, 12, 13, and 16, 30 ft. S. and 15 ft. W. from T-rd. W., 1 ft. above ground; chiseled square

T. 64 N., R. 9 W., in NE 1/4 sec. 21, 25 ft. N. and 37 ft. E. from crossroads, 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 104 C 1936"

T. 64 N., R. 9 W., in NW 1/4 sec. 21, at top of hill, 20 ft. S. of rd., in farmyard, in root on N. side of 22-in. elm tree; copper nail and washer

T. 64 N., R. 9 W., in NW 1/4 sec. 21, at top of hill, 20 ft. S. of rd., in farmyard, in root on N. side of 22-in. elm tree; copper nail and washer

Farmhouse, 210 ft. S. of, 15 ft. E. of rd., in root on W. side of 16-in. post oak tree; crossed nails

(Continued in Meophis quadrangle; see line 7.)

8. FROM LAT BELLE QUADRANGLE AT SEC. 19, T. 63 N., R. 9 W., WEST INTO LA BELLE QUADRANGLE AT POINT ABOUT 0.5 MILE WEST OF COLONY (by F. Y. Brown in 1937)

(Continued from La Belle quadrangle; see line 6.)

T. 65 N., R. 9 W., cor. secs. 17, 18, 19, and 20, 100 ft. S. and 30 ft. W. from T-rd. S. on Clark-Lewis county line, in root on N. side of 30-in. elm tree; copper nail and washer

T. 65 N., R. 9 W., quarter cor. between secs. 10 and 19, 18 ft. S. and 75 ft. W. from T-rd. S. and lane N., on Clark-Lewis county line, in concrete post; standard tablet stamped "T T 103 C 1936"

T. 65 N., R. 9 W., cor. secs. 11, 12, 13, and 14, 25 ft. S. and 200 ft. E. from crossroads, at center of T-rd. S. at corner of Clark and Lewis Counties, in root on N. side of 30-in. elm tree; copper nail and washer

T. 65 N., R. 9 W., in W 1/2 sec. 15, 40 ft. N. and 90 ft. W. from rd. forks, in root on W. side of 20-in. black oak tree; copper nail and washer

(Continued in Meophis quadrangle; see line 7.)

Colony, 0.5 mi. W. of, in NE 1/l sec. 22, T. 63 N., R. 10 W., at rd. forks, at NW. corner of cemetery, in root on S. side of 14-in. post-oak tree; copper nail and washer.

(Continued in La Belle quadrangle; see line 6.)

For additional level lines along Chicago, Burlington & Quincy R.R. and Atchison, Topeka & Santa Fe Ry., refer to United States Coast and Geodetic Survey second-order lines, Medill to Glenwood Jct. and Hurdland to Fort Madison, Iowa.

KEOSAUQUA QUADRANGLE
(Latitude 40°50'-40°45'; longitude 91°45'-92°00')

Clark and Scotland Counties

1. FROM DONELLSON QUADRANGLE NORTHWEST ALONG STATE HIGHWAY 81 TO IOWA-MISSOURI STATE LINE, THEN WEST ALONG IOWA-MISSOURI STATE LINE INTO CANTRIL QUADRANGLE AT SEC. 11, T. 67 N., R. 8 W. (by B. A. Barnes in 1936 and F. Y. Brown in 1936-37)

(Continued from Donnellson quadrangle; see line 1.)

T. 67 N., R. 8 W., near center sec. 34, 220 ft. S. and 14 ft. W. from highway at E.-W. hedge fence, on top of concrete right-of-way marker; mark not described

T. 67 N., R. 8 W., quarter cor. between secs. 27 and 34, 12 ft. N. and 24 ft. E. from crossing, on center of N. head wall of concrete culvert; chiseled square

T. 67 N., R. 8 W., in N 1/2 sec. 27, 80 ft. S. and 21 ft. W. from highway at hedge fence, in center of N. head wall of concrete culvert; iron pin

 Junction of rd. W., 15 ft. S. and 27 ft. W. from, on center of S. head wall of concrete culvert; chiseled square

T. 67 N., R. 8 W., in sec. 15, 0.2 mi. S. of Iowa-Mo. State line, 28 ft. S. and 50 ft. W. from highway at fence corner, in concrete post; standard tablet stamped "T T 91 C 1936"

T. 67 N., R. 8 W., in NW 1/l sec. 15, 140 ft. S. and 66 ft. W. from Iowa State Highway 144 at rd. W., in root on E. side of 22-in. elm tree; copper nail and washer

T-rd. E., about 270 ft. S. and 18 ft. E. from, in root on W. side of 22-in. elm tree; copper nail and washer

Iowa-Mo. State line at rd. W. and Lane E.; surface of rd.

T. 67 N., R. 8 W., center sec. 20, 20 ft. S. and 56 ft. E. from stone, 1 mi. S. of Iowa-Mo. State line, 4 ft. S. of crossroads, in concrete post; standard tablet stamped "T T 90 C 1936"

T. 67 N., R. 8 W., in SE 1/l sec. 19, 150 ft. E. of T-rd. S., on center of S. head wall of concrete culvert; chiseled square

T. 67 N., R. 9 W., 300 ft. S. of E. quarter cor. sec. 21, 22 ft. S. and 2 ft. E. from T-rd. R. at NW. corner of Union churchyard, in concrete post; standard tablet stamped "T T 89 C 1936"

Ref: The greater part of this quadrangle lies in Iowa.
SPIRIT LEVELING IN MISSOURI

T. 67 N., R. 9 W., near center sec. 2k, 12 ft. S. and 60 ft. E. from T-rd. S., on center of S. head wall of concrete culvert; chiseled square

T. 67 N., R. 9 W., near quarter cor. between secs. 25 and 2k, 35 ft. E. of center cor. of fence, 20 ft. S. and 60 ft. E. from T-rd. R., on NW. corner of concrete wall top; chiseled square

T. 67 N., R. 9 W., in W 1/2 sec. 23, 10 ft. N. and 15 ft. E. from T-rd. S., in fence line, in root on S. side of 14-in. box-elder tree; copper nail and washer


T. 67 N., R. 9 W., E. sixteenth cor. between secs. 22 and 27, 22 ft. S. of T-rd. R., in concrete post; standard tablet stamped "T T 88 C 1936" Bridge, at NE. corner of, in S. pier; top of bolt head

Dwelling on Low Todd farm, 40 ft. SE. of, in concrete post; standard tablet stamped "T T 27 G 1935"


Dwelling on Lasher farm, about 200 ft. SW. of, in concrete post; standard tablet stamped "T T 114 C 1936"

T. 67 N., R. 10 W., in NE 1/4 sec. 26, about 0.1 mi. S. of bridge over Fox River, 60 ft. NW. of farmhouse, in fence corner, in root on W. side of 26-in. black-oak tree; copper nail and washer

For balance in Wyaconda quadrangle, see line 4.)


Dwelling on Xaylor farm, about 200 ft. SW. of, in fence corner, in S. side of 14-in. maple tree; crossed nails

T. 66 N., R. 8 W., in SE 1/4 sec. 20, about 600 ft. S. of rd. forks, 60 ft. N. of rd., 14 ft. W. of farmhouse, on top of concrete wall platform; chiseled square

T. 66 N., R. 8 W., in W 1/2 sec. 23, about 600 ft. E. of T-rd. S., on top of N. head wall of concrete culvert; chiseled square

(Continued in Donnellson quadrangle; see line 5.)

T. 66 N., R. 8 W., in NE cor. sec. 25, 24 ft. W. and 20 ft. E. from fence corner, in S. side of 20-in. locust tree; copper nail and washer

(For balance in Wyaconda quadrangle, see line 4.)

T. 66 N., R. 8 W., in NE cor. sec. 26, about 0.1 mi. S. of bridge over Fox River, 60 ft. NW. of farmhouse, in fence corner, in root on W. side of 26-in. black-oak tree; copper nail and washer

T. 66 N., R. 8 W., in W 1/2 sec. 23, about 600 ft. E. of T-rd. S., on top of N. head wall of concrete culvert; chiseled square

(Continued in Donnellson quadrangle; see line 5.)


(Continued in Cantril quadrangle; see line 2.)

2. FROM WYACONDA QUADRANGLE AT SEC. 55, T. 66 N., R. 8 W., EAST INTO DONNELLSON QUADRANGLE AT SEC. 22, T. 66 N., R. 8 W.

(Continued from Wyaconda quadrangle; see line 4.)


Dwelling on Xaylor farm, about 200 ft. SW. of, in fence corner, in S. side of 14-in. maple tree; crossed nails

T. 66 N., R. 8 W., in SE 1/4 sec. 20, about 600 ft. S. of rd. forks, 60 ft. N. of rd., 14 ft. W. of farmhouse, on top of concrete wall platform; chiseled square

T. 66 N., R. 8 W., in NE cor. sec. 25, 24 ft. W. and 20 ft. E. from fence corner, in S. side of 20-in. locust tree; copper nail and washer

(Continued in Donnellson quadrangle; see line 4.)

T. 66 N., R. 8 W., in NE cor. sec. 26, about 0.1 mi. S. of bridge over Fox River, 60 ft. NW. of farmhouse, in fence corner, in root on W. side of 26-in. black-oak tree; copper nail and washer

T. 66 N., R. 8 W., in W 1/2 sec. 23, about 600 ft. E. of T-rd. S., on top of N. head wall of concrete culvert; chiseled square

(Continued in Donnellson quadrangle; see line 5.)

3. FROM CANTRIL QUADRANGLE AT SEC. 15, T. 66 N., R. 10 W., INTO CANTRIL QUADRANGLE (by W. V. Kennedy in 1937)

(Continued from Cantril quadrangle; see line 3.)


(Continued in Cantril quadrangle; see line 5.)
1. **ISOLATED BENCHMARK** (not shown on diagram; by H. V. Rees in 1900)

T. 66 N., R. 10 W., 0.1 mi. E. of NW. cor. of fence corner on property of Joseph Miller; iron post stamped "745 A".

2. **FROM KEOSAUQUA QUADRANGLE WEST ABOUT 2 MILES ALONG IOWA-MISSOURI STATE LINE ROAD** (by B. A. Barnes in 1936 and F. Y. Brown in 1936-37)

(Continued from Keosauqua quadrangle; see line 1.)


T. 67 N., R. 10 W., near N. quarter cor. sec. 21, 28 ft. S. and 27 ft. W. from T-rd. S., on concrete base of corner fence post; chiseled square large bank, about 500 ft. SE. of, 15 ft. S. of rd., on center of S. end of concrete culvert; chiseled square

T. 67 N., R. 10 W., in NW 1/4 sec. 20, 60 ft. NE. of NW. cor. of South Upton School, 50 ft. S. of rd., in root on N. side of large, twin elm tree; copper nail and washer.

T. 67 N., R. 10 W., near S. sixteenth cor. on N. line sec. 19, 0.5 mi. W. of South Upton School, 21 ft. S. and 14 ft. W. from rd. at hedge fence S., 2 ft. S. of fence, in concrete post; standard tablet stamped "T T 22 G 1935".

3. **FROM MEMPHIS QUADRANGLE AT SEC. 27, T. 66 N., R. 10 W., NORTH TO IOWA-MISSOURI STATE LINE AT SEC. 19, T. 67 N., R. 10 W.**

(Continued from Memphis quadrangle; see line 9.)


T. 66 N., R. 10 W., near S. sixteenth cor. between secs. 21 and 22, on NW. corner of pier of steel bridge over North Wyaconda River; painted square

T. 66 N., R. 10 W., S. sixteenth cor. between secs. 15 and 16, 15 ft. S. and 14 ft. E. from T-rd. W., in farmyard of John W. Miller, on concrete foundation; chiseled square

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

T. 66 N., R. 10 W., quarter cor. between secs. 9 and 10, 15 ft. S. and 80 ft. W. from crossroads, in root on E. side of 24-in. elm tree; copper nail and washer.

T. 66 N., R. 10 W., on line between secs. 9 and 10, 90 ft. N. of bridge over small creek, E. of rd., in root on W. side of 14-in. elm tree; crossed nails

T. 66 N., R. 10 W., quarter cor. between secs. 3 and 4, 100 ft. S. and 40 ft. W. from crossroads, in root on E. side of 20-in. elm tree; copper nail and washer.

T. 66 N., R. 10 W., N. cor. secs. 3 and 4, 30 ft. N. and 290 ft. E. from T-rd. S., in SW. corner of farmyard, in root on SE. side of 36-in. maple tree; crossed nails

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*The greater part of this quadrangle lies in Iowa.

**Accuracy doubtful because of insufficient connections.
1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1900)

T. 63 N., R. 11 W., in SE. cor. sec. 6, in corner of dooryard of M. Beck; iron post stamped "777 A" *778.165

T. 64 N., R. 10 W., in SW 1/4 sec. 28, in SW. corner of dooryard of Mary Dorer; iron post stamped "652 A" 652.943

Sand Hill, center sec. 33, T. 63 N., R. 11 W., 600 ft. from post office, in brick founda­tion of dwelling of S. P. Childers; aluminum tablet stamped "802 A" *805.490


Memphis, at E. limits of, 22 ft. S. and 15 ft. E. from highway at street W., on E. end of S. concrete head wall of culvert; chiseled square Memphis, about 1 mi. E. of, 35 ft. S. and 15 ft. E. from highway at fence S., in concrete post; standard tablet stamped "1509 E R A 1935" 794.266

Memphis, 1.5 mi. E. of, 27 ft. S. and 17 ft. W. from S.-S. crossroad, in root on E. side of 12-in. maple tree; copper nail and washer Memphis, 2.8 mi. E. of, 70 ft. S. and 190 ft. E. from junction of rd. E., at W. end of curve, on W. end of S. concrete head wall of culvert; chiseled square Memphis, about 2.8 mi. E. of, 70 ft. S. and 190 ft. E. from junction of rd. E., on S. side of dooryard of Miller School; iron post stamped "756 A" 785.916

2. FROM DOWNING QUADRANGLE EAST ALONG STATE HIGHWAY 1, TO JUNCTION OF COUNTY ROUTE A, THENCE SOUTH ALONG COUNTY ROUTE A TO GORIN, THENCE SOUTH ALONG ROADS INTO EDINA QUADRANGLE AT SEC. 20, T. 65 N., R. 10 W. (by G. R. Hamlin in 1936)

(Continued from Downing quadrangle; see line 2.)


Memphis, at E. limits of, 22 ft. S. and 15 ft. E. from highway at street W., on E. end of S. concrete head wall of culvert; chiseled square Memphis, about 1 mi. E. of, 35 ft. S. and 15 ft. E. from highway at fence S., in concrete post; standard tablet stamped "1509 E R A 1935" 794.266

Memphis, 1.5 mi. E. of, 27 ft. S. and 17 ft. W. from S.-S. crossroad, in root on E. side of 12-in. maple tree; copper nail and washer Memphis, 2.8 mi. E. of, 70 ft. S. and 190 ft. E. from junction of rd. E., at W. end of curve, on W. end of S. concrete head wall of culvert; chiseled square Memphis, about 2.8 mi. E. of, 70 ft. S. and 190 ft. E. from junction of rd. E., on S. side of dooryard of Miller School; iron post stamped "756 A" 785.916

Accuracy doubtful because of insufficient connections.
PART 6, NORTHEASTERN MISSOURI, 1896-1938

3. FROM JUNCTION OF STATE HIGHWAYS 4 AND 15 1 MILE WEST OF MEMPHIS, SOUTHWEST ALONG HIGHWAY 15 INTO EDINA QUADRANGLE (by G. R. Hamlin in 1936)

Memphis, 2 mi. SW. of, 15 ft. S. and 25 ft. W. from crossroads, on W. end of S. concrete head wall of culvert; chiseled square

T. 65 N., R. 11 W., quarter cor. between secs. 11 and 12, 40 ft. S. and 12 ft. W. from N.-S. crossroad, on S. end of W. concrete head wall of culvert; (mark not describable) 727.69

T. 65 N., R. 10 W., quarter cor. between secs. 7 and 12, 60 ft. S. and 15 ft. W. from N.-S. crossroad, on S. end of W. concrete head wall of culvert; chiseled square

T. 65 N., R. 10 W., near E. sixteen cor. sec. 7, 20 ft. S. and 90 ft. W. from junction of rd. S., on W. end of S. concrete head wall of culvert; chiseled square

T. 65 N., R. 10 W., near E. sixteen cor. sec. 5, 20 ft. S. and 90 ft. W. from junction of E. concrete curbing at N. end of; chiseled square

T. 65 N., R. 10 W., near E. sixteen cor. between secs. 16 and 17, 18 ft. N. and 72 ft. E. from junction of rd. W., in root on S. side of 30-in. elm tree; nail and washer

T. 65 N., R. 10 W., near E. sixteen cor. between secs. 20 and 21, 225 ft. N. and 35 ft. E. from junction of rd. W., in root on S. end of triple mulberry tree; copper nail and washer

T. 65 N., R. 10 W., cor. secs. 20, 21, 28, and 29, 200 ft. S. and 35 ft. E. from crossroad, in root on W. side of 18-in. maple tree; copper nail and washer

T. 65 N., R. 10 W., cor. secs. 28, 29, 32, and 33, 55 ft. S. and 38 ft. W. from crossroad, 30 ft. S. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "T 102 C 1936"

Tps. 64 and 65 N., R. 10 W., cor. secs. 4, 5, 32, and 33, 70 ft. N. and 60 ft. E. from junction of rd. E., in root on S. side of 10-in. elm tree; copper nail and washer

T. 64 N., R. 10 W., cor. secs. 4, 5, 8, and 9, 35 ft. N. and 25 ft. W. from crossroad, in root on E. side of 30-in. elm tree; copper nail and washer

U.S.C. & G.S. standard disk stamped "X Bu 1955"

T. 64 N., R. 10 W., near cor. secs. 17, 20, 29, and 30, at SE. corner of steel bridge over drainage canal, on SE. corner of steel header plate; painted square

T. 64 N., R. 10 W., near E. sixteen cor. between secs. 29 and 32, on top of NW. corner of NW. concrete pier of steel bridge over drainage canal; chiseled square


T. 65 N., R. 10 W., near E. sixteen cor. sec. 5, 100 ft. S. and 15 ft. E. from T-rd. E., in root on N. side of 18-in. walnut tree; copper nail and washer

T. 63 N., R. 10 W., near center sec. 6, 65 ft. N. and 15 ft. W. from T-rd. W., at SE. corner of schoolhouse, on top of concrete base of flagpole; chiseled square

Small steel bridge, at SW. corner of, in wooden beam; crossed nails

T. 63 N., R. 10 W., approximate cor. secs. 6, 9, 16, and 17, 90 ft. S. and 15 ft. W. from T-rd. W., in root on S. side of 30-in. maple tree; copper nail and washer

T. 63 N., R. 10 W., on line between secs. 16 and 17, 20 ft. N. and 72 ft. E. from T-rd. N., in root on N. side of 18-in. walnut tree; copper nail and washer

T. 63 N., R. 10 W., on line between secs. 20 and 21, on W. side of steel header plate at NW. corner of steel bridge over Middle Pablos River; top of N. bolt

31 ft. W. from T-rd. H., in root on N. side of 30-in. elm tree; copper nail and washer

3. FROM JUNCTION OF STATE HIGHWAYS 4 AND 15 1 MILE WEST OF MEMPHIS, SOUTH ALONG HIGHWAY 15 INTO EDINA QUADRANGLE (by G. R. Hamlin in 1936)

Memphis, 2 mi. SW. of, 15 ft. S. and 25 ft. W. from crossroads, on W. end of S. concrete head wall of culvert; chiseled square

Junction of lane to farmhouse, 12 ft. S. and 30 ft. E. from, on S. end of iron pipe culvert; chiseled square

T. 65 N., R. 12 W., near W. sixteen cor. sec. 25, 300 ft. N. and 30 ft. E. from junction of rd. S., 250 ft. N. of Miller School, in root on W. side of 8-in. elm tree; copper nail and washer


T. 65 N., R. 12 W., near center sec. 35, 20 ft. S. and 25 ft. W. from E.-W. crossroad, in root on W. side of 12-in. maple tree; copper nail and washer

T. 62 N., R. 12 W., quarter cor. between secs. 2 and 35, 30 ft. E. and 17 ft. W. from junction of rd. W., on S. end of W. concrete head wall of culvert; chiseled square

T. 62 N., R. 12 W., near center sec. 2, 40 ft. S. and 35 ft. E. from E.-W. crossroad, in root on W. side of 30-in. elm tree; copper nail and washer

T. 62 N., R. 12 W., in S 1/2 sec. 2, on S. end of E. wing wall of steel bridge over Tobin Creek; chiseled square

T. 62 N., R. 12 W., in W 1/2 sec. 11, 20 ft. S. and 35 ft. E. from Junction of rd. E., on S. end of iron pipe culvert; chiseled square

T. 62 N., R. 12 W., near E. sixteen cor. sec. 33, 30 ft. S. from junction of rd. E., on S. end of iron pipe culvert; chiseled square


Reference mark, 45 ft. N. 30° W. of tabllet, on W. end of S. concrete head wall of culvert; chiseled square

787
SPIRIT LEVELING IN MISSOURI

T. 6N., R. 12 W., near W. sixteenth cor. between secs. 23 and 25, 15 ft. S. and 30 ft. E. from E.-W. crossroad, in root on E. side of 8-in. locust tree; copper nail and washer. 815.27

T. 6N., R. 12 W., near W. sixteenth cor. sec. 23, 25 ft. N. and 35 ft. E. from junction of rd. E., in root on S. side of 30-in. maple tree; copper nail and washer. 776.60

T. 6N., R. 12 W., near W. sixteenth cor. between secs. 23 and 26, 25 ft. SW. of junction of County Route W, on E. end of NE. wing wall of bridge over Middle Fabius River; chiseled square. 723.71

T. 6N., R. 12 W., near W. sixteenth cor. between secs. 26 and 27, 24 ft. S. and 25 ft. W. from junction of rd. W., on W. end of S. concrete head wall of culvert; chiseled square. 762.25

T. 6N., R. 12 W., cor. secs. 2, 3, 24, and 25, 32 ft. N. and 12 ft. W. from crossroad on Knox-Scotland county line, in concrete post; standard tablet stamped "1507 G W A 1935". 811.96

Greensburg, 30 ft. S. and 15 ft. E. from E.-W. crossroad, on NW. corner of concrete base of gasoline pumps; chiseled square. 812.43

(Continued in Edina quadrangle; see line 2.)

FROM GREENSBURG WEST INTO DOWNING QUADRANGLE AT SEC. 9, T. 6N., R. 12 W. (by G. R. Hamlin in 1936)

T. 6N., R. 12 W., quarter cor. between secs. 3 and 4, 125 ft. N. and 55 ft. W. from crossroads, in root on S. side of 30-in. elm tree; copper nail and washer. 807.78

(Continued in Downing quadrangle; see line 3.)

FROM SEC. 10, T. 6N., R. 12 W., WEST ALONG COUNTY ROUTE T INTO DOWNING QUADRANGLE (by G. R. Hamlin in 1936)

T. 6N., R. 12 W., in W 1/2 sec. 15, 50 ft. S. and 15 ft. E. from junction of rd. S., in root on N. side of 12-in. locust tree; copper nail and washer. 818.64

(Continued in Downing quadrangle; see line 5.)

FROM POIN T 1.5 MILES EAST OF MEMPHIS NORTHEAST TO POINT NEAR CENTER OF SEC. 5, T. 6N., R. 11 W. (by G. R. Hamlin in 1936)

U.S.C. & G.S. standard disk stamped "D 86 1935". 777.77


U.S.C. & G.S. standard reference disk designated "Memphis No 2 1935". 799.06

7. FROM WYACOODA QUADRANGLE AT SEC. 10, T. 6N., R. 10 W., WEST TO GORIN (by F. Y. Brown in 1937)


T. 6N., R. 10 W., approximate quarter cor. between secs. 9 and 16, near gate to farm of Charles Ammond, 15 ft. S. of rd., on center of S. head wall of concrete culvert; chiseled square. 707.19

Gorin, 35 ft. N. and 152 ft. E. from crossroad at cor. secs. 8, 9, 16, and 17, T. 6N., R. 10 W., 55 ft. N. and 100 ft. B. from center line of Atherton, Topeka and Santa Fe R.R., in concrete post; standard tablet stamped "T T 103 C 1936". 708.73

(Continued from Wyaconda quadrangle; see line 7.)

Gorin, 1.5 mi. W. of, near quarter cor. between secs. 7 and 18, T. 6N., R. 10 W., 150 ft. E. of rd. fork S., on concrete wing wall at SW. corner of small bridge over creek; chiseled square. 751.50

Gorin, 2.5 mi. W. of, near quarter cor. between secs. 12 and 13, T. 6N., R. 10 W., 150 ft. E. of rd. fork S., on concrete pier at SW. corner of steel bridge over drainage canal; chiseled square. 682.53

Gorin, 3.2 mi. W. of, approximate E. sixteenth cor. between secs. 11 and 12, T. 6N., R. 10 W., 150 ft. E. of rd. fork S., on concrete pier at SW. corner of steel bridge over drainage canal; chiseled square. 655.14

(Continued in Downing quadrangle; see line 8.)

U.S.C. & G.S. standard disk stamped "K 10 1937". 689.84

FROM GORIN WEST TO SEC. 12, T. 6N., R. 12 W. (by W. V. Kennedy in 1937)

Gorin, about 0.2 mi. SW. of Atherton, Topeka & Santa Fe Ry. sta., 45 ft. S. and 30 ft. W. from rd. crossing, 15 ft. S. and 30 ft. W. from crossroad, on E. end of concrete curbing of culvert; chiseled square. 703.77

Gorin, 0.8 mi. W. of, W. sixteenth cor. between secs. 8 and 17, T. 6N., R. 10 W., 100 ft. N. of farmhouse of N. P. W. Miller, 15 ft. S. and 200 ft. E. from T-rd. N., in root on N. side of 18-in. maple tree; copper nail and washer. 751.50

Gorin, 1.5 mi. W. of, near quarter cor. between secs. 7 and 18, T. 6N., R. 10 W., on concrete wing wall at SW. corner of small bridge over creek; chiseled square. 682.53

Gorin, 2.5 mi. W. of, near quarter cor. between secs. 12 and 13, T. 6N., R. 10 W., 150 ft. E. of rd. fork S., on concrete pier at SW. corner of steel bridge over drainage canal; chiseled square. 655.14

Gorin, 3.2 mi. W. of, approximate E. sixteenth cor. between secs. 11 and 12, T. 6N., R. 10 W., 150 ft. E. of rd. fork S., on concrete pier at SW. corner of steel bridge over drainage canal; chiseled square. 689.84
Reference mark, 600 ft. E. of tablet, on S. head wall of concrete culvert; chiseled square

T. 66 N., R. 11 W., E. sixteenth cor. between secs. 2 and 11, 25 ft. S. and 15 ft. W. from rd. corner S.-W., on W. head wall of concrete culvert; chiseled square

T. 66 N., R. 11 W., near cor. secs. 2, 3, 10, and 11, 250 ft. S. and 20 ft. E. from rd. fork S., in root on E. side of 14-in. elm tree; copper nail and washer

T. 66 N., R. 11 W., in SE 1/4 sec. 10, about 600 ft. below South Liberty School, at SW. corner of bridge over Indian Creek, in painted square; bolt head

T. 66 N., R. 11 W., near cor. secs. 2, 3, 10, and 11, about 0.2 mi. S. of South Liberty School, 25 ft. W. and 30 ft. S. from T-rd. W. and abandoned lane E., in root on SE. side of 12-in. white-oak tree; copper nail and washer

T-rd. S., 90 ft. W. and 15 ft. W. from, in root on W. side of forked wild-cherry tree; crossed nails

T. 66 N., R. 11 W., quarter cor. between secs. 9 and 16, 8 ft. N. and 90 ft. E. from T-rd. N., on E. end of N. concrete head wall of culvert; chiseled square


T. 66 N., R. 11 W., quarter cor. between secs. 8 and 17, 12 ft. S. and 90 ft. E. from T-rd. N., in root on N. side of 18-in. elm tree; copper nail and washer

T. 66 N., R. 11 W., E. sixteenth cor. between secs. 7 and 18, 10 ft. E. and 50 ft. W. from crossroads, in root on R. side of 20-in. elm tree; copper nail and washer

T. 66 N., Rs. 11 and 12 W., cor. secs. 7, 12, 13, and 18, 25 ft. S. and 120 ft. E. from T-rd. S., on N. head wall of concrete culvert; chiseled square


T. 66 N., R. 12 W., in NE 1/4 sec. 12, 50 ft. S. and 20 ft. W. from crossroads, in root on NE. side of 20-in. mulberry tree; copper nail and washer

T. 66 N., R. 12 W., in NW 1/4 sec. 12, at SE. corner of steel bridge over Tobin Creek, on top of rivet head; painted square

9. FROM POINT ABOUT 2 MILES WEST OF ARBEWA EAST TO ARBELA, THENCE NORTHEAST INTO CANTRIL QUADRANGLE AT SEC. 28, T. 66 N., R. 10 W. (by W. V. Kennedy in 1937)

U.S.C. & G.S. standard disk stamped "B 86 1935"

Arbela, 1 mi. N. and 0.5 mi. E. of, E. sixteenth cor. between secs. 6 and 33, Tps. 65 and 66 N., R. 10 W., 80 ft. N. and 160 ft. E. from junction of rd. E., in root on S. side of 18-in. black-oak tree; copper nail and washer


(Continued in Cantril quadrangle; see line 3.)

For additional level lines along Chicago, Burlington & Quincy R.R. and Atchison, Topeka & Santa Fe Ry., refer to United States Coast and Geodetic Survey second-order lines, Medill to Glenwood Jct. and Hurdland to Fort Madison, Iowa.
SPIRIT LEVELING IN MISSOURI

EDIHA QUADRANGLE
(Latitude 40°00' - 40°15'; longitude 92°00' - 92°15')

Knox County

1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1900)

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. 61 N., R. 11 W., in SE 1/4 sec. 9, in corner of dooryard of Robert Hysell</td>
<td>Iron post stamped &quot;735 A&quot;</td>
<td>735.23</td>
</tr>
<tr>
<td>T. 62 N., R. 12 W., in NE 1/4 sec. 21, about 90 ft. S. of Quincy, Omaha &amp; Kansas City R.R. at rd. corner</td>
<td>Iron post stamped &quot;824 A&quot;</td>
<td>824.20</td>
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2. FROM MEMPHIS QUADRANGLE NEAR BARING, WEST ALONG STATE HIGHWAY 11 INTO EDINA QUADRANGLE (by W. H. Hamlin in 1936)

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.C. &amp; G.S. standard disk stamped &quot;Q 84 1935&quot;</td>
<td>Baring, 0.8 mi. W. of Atchison, Topeka &amp; Santa Fe Ry. sta.</td>
<td>811.19</td>
</tr>
<tr>
<td>T. 65 N., R. 12 W., in NW 1/4 sec. 27, 15 ft. S. and 370 ft. E. from N.-S. crossroad</td>
<td>Standard tablet stamped &quot;J 0 1935&quot;</td>
<td>826.52</td>
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</table>

3. FROM MEBBLE QUADRANGLE AT SEC. 10, T. 60 N., R. 10 W., NORTH TO NORTHEAST CORNER, THENCE WEST TO BARING, THENCE SOUTH TO EDINA (by F. Y. Brown in 1936)

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knox City, 5.5 mi. S. of, cor. secs. 21, 22, 27, and 26, T. 61 N., R. 10 W., 25 ft. N. and 35 ft. W. from crossroads, on top of bank, in fence line, in concrete post; standard C.W.A. disk stamped &quot;T 1C 1937&quot;</td>
<td>759.07</td>
<td></td>
</tr>
<tr>
<td>Knox City, about 4.7 mi. S. of, near N. sixteenth cor. between secs. 21 and 22, T. 61 N., R. 10 W., 20 ft. N. and 35 ft. E. from T-rd. E., in root on W. side of 20-in. elm tree; copper nail and washer</td>
<td>765.17</td>
<td></td>
</tr>
<tr>
<td>Knox City, 25 ft. N. and 60 ft. E. from NE corner of, 30 ft. W. of rd., in root on S. side of 12-in. ash tree; crossed nails</td>
<td>768.35</td>
<td></td>
</tr>
</tbody>
</table>

(Continued in Memphis quadrangle; see line 3.)
(Continued in La Plata quadrangle; see line 3.)
(Continued in La Belle quadrangle; see line 4.)
Knox City, about 3.0 mi. S. of, near W. sixteenth cor. between secs. 15 and 16, T. 61 N., R. 10 W., 60 ft. W. and 20 ft. E. from iron bridge, in fence line, in root on W. side of 20-in. elm tree; copper nail and washer


Knox City, 1.7 mi. S. of, near S. sixteenth cor. between secs. 3 and 4, T. 61 N., R. 10 W., 10 ft. S. of dwelling of E. E. Benstine, 50 ft. S. of, in root on E. side of 14-in. cedar tree; copper nail and washer

Knox City, 3 mi. S. of, near S. sixteenth cor. between secs. 4, 5, 33, and 34, Tps. 61 and 62 N., R. 10 W., 5 ft. W. from T-rd. W., in root on N. side of 10-in. locust tree; copper nail and washer

T. 62 N., R. 10 W., on line between secs. 33 and 34, 250 ft. N. of steel bridge, 15 ft. E. or, in root on N. side of 14-in. elm tree; crossed nails

Knox City, 0.2 mi. S. of, 140 ft. S. and 20 ft. W. from T-rd. E., in fence line, in root on N. side of 25-in. elm tree; copper nail and washer


Referees' mark, 60 ft. W. of tablet, on corner of concrete curbing; chiseled square

U.S.C. & G.S. standard disk stamped "X 15 1933" 763.827

Reference mark, 60 ft. W. of tablet, on corner of concrete curbing; chiseled square

U.S.C. & G.S. standard disk stamped "X 15 1933" 763.827


T. 62 N., R. 10 W., on line between secs. 15 and 16, T. 62 N., R. 10 W., 110 ft. NE. of steel bridge, 25 ft. S. of rd., in root on W. side of twin 10-in. elm tree; copper nail and washer

Steel bridge, 6 ft. W. of NW. corner of, 15 ft. W. of rd., in root on E. side of 16-in. elm tree; crossed nails

Knox City, 2.5 mi. W. of, in NE 1/4 sec. 16, T. 62 N., R. 10 W., 110 ft. NE. of steel bridge, 25 ft. S. of rd., in root on W. side of twin 10-in. elm tree; copper nail and washer


Knox City, about 4.6 mi. N. of, about 800 ft. N. of cor. secs. 3, 4, 9, and 10, T. 62 N., R. 10 W., 625 ft. S. of T-rd. NW., 10 ft. S. and 6 ft. W. from S. end of steel bridge over Bridge Creek, in root on W. side of 10-in. cottonwood tree; copper nail and washer

Knox City, about 4.7 mi. N. of, on line between secs. 3 and 4, T. 62 N., R. 10 W., 25 ft. E. and 70 ft. E. from rd. forks, in fence line, in root on N. side of 14-in. white-oak tree; copper nail and washer

Knox City, about 4.7 mi. N. of, on line between secs. 4 and 33, Tps. 62 and 63 N., R. 10 W., 150 ft. N. and 60 ft. W. from dirt crossroad, 25 ft. W. of rd., in root on N. side of 22-in. white-oak tree; copper nail and washer

Knox City, about 5.3 mi. W. of, in S 1/2 sec. 39, T. 63 N., R. 10 W., 60 ft. W. of T-rd. S., 60 ft. N. of rd., in field, in root on E. side of 20-in. water-oak tree (southernmost one of 2 large oaks); copper nail and washer


Rd. corner from S. - E., 35 ft. S. and 35 ft. W. from, on top of iron stanchion at NE. corner of base of windmill; iron point

T. 63 N., R. 10 W., near E. sixteenth cor. between secs. 21 and 26, 60 ft. W. of rd. in field, in root on E. side of 20-in. water-oak tree (southernmost one of 2 large oaks); copper nail and washer


Top of hill, 35 ft. S. of rd., in front yard of farmhouse of D. L. Sharp, in root on side of 16-in. elm tree; crossed nails

T-rd. S., 45 ft. S. and 25 ft. W. from, in fence post at surface of ground; spike

T. 63 N., R. 10 W., near E. sixteenth cor. between secs. 19 and 30, 350 ft. W. of T-rd. W., 60 ft. S. of rd. at steel bridge, 10 ft. S. of fence line, in root on W. side of 14-in. black-oak tree; copper nail and washer

T. 63 N., R. 10 W., on line between secs. 19 and 30, 40 ft. W. of small bridge, 25 ft. N. of rd., in root on E. side of 30-in. white-oak tree; copper nails

T. 63 N., R. 11 W., near quarter cor. between secs. 21 and 25, 40 ft. E. from T-rd. S., and 60 ft. E. from T-rd. S., in root on S. side of 16-in. black-oak tree; copper nail and washer

739.39

T. 63 N., R. 11 W., near W. sixteenth cor. between secs. 21 and 25, 20 ft. N. and 70 ft. E. from T-rd. N., 10 ft. S. of farmhouse of Ross Saulbury, in root on N. side of 16-in. elm tree; copper nail and washer

774.13

T. 63 N., R. 11 W., near W. sixteenth cor. between secs. 23 and 26, 10 ft. S. and 250 ft. W. from crossroads, in root on N. side of 28-in. aspen tree; copper nail and washer

766.66

T. 63 N., R. 11 W., E. sixteenth cor. between secs. 22 and 27, 35 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "T 15 1935"

765.958

Top of hill, 110 ft. S. of rd., in root on W. side of 30-in. white-oak tree; crossed nails

780.07

T. 63 N., R. 11 W., near quarter cor. between secs. 21 and 25, 25 ft. N. and 70 ft. E. from T-rd. N., in root on S. side of 18-in. elm tree; copper nail and washer

775.95

708.8

T. 63 N., R. 11 W., on line between secs. 22 and 26, at SW. corner of steel bridge; surface of floor

710.19

T. 63 N., R. 11 W., on line between secs. 20 and 25, 45 ft. N. of rd., in barnyard, on top of SW. corner of concrete scale foundation; chiseled square

788.59

Baring, 0.5 mi. N. of, on W. side of yard of J. Ewingensleke, in root on S. side of 10-in. hickory tree; nail and washers

808.86

T. 63 N., R. 11 W., on line between secs. 20 and 25, 60 ft. N. of rd., in concrete post; standard tablet stamped "T T 1508 ERA 1935"

802.123

T. 63 N., R. 11 W., on line between secs. 19 and 30, 150 ft. S. of rd. at SE. end of steel bridge, in root on N. side of 20-in. elm tree; crossed nails

726.89

T. 63 N., R. 11 W., in NW 1/4 sec. 30, 300 ft. N. of rd. corner N.-W., 20 ft. W. of rd., in root on W. side of 14-in. elm tree; copper nail and washer

785.86

T. 63 N., R. 11 W., near N. sixteenth cor. between secs. 25 and 30, 10 ft. N. and 10 ft. W. from crossroads, in root on W. side of 14-in. white-oak tree; copper nail and washer

716.99

Baring, 0.4 mi. N. of, near N. sixteenth cor. between secs. 25 and 26, 60 ft. N. and 25 ft. W. from old State Highway 15 1955; chiseled square

808.52

U.S.C. & G.S. standard disk stamped "Q Q 84 1935"

811.95

812.58

T. 63 N., R. 11 W., on line between secs. 25, 26, 35, and 36, T. 63 N., R. 12 W., 25 ft. W. of old State Highway 15, on N. side of W. head wall of concrete culvert; chiseled square

768.93

Top of hill, 110 ft. S. of rd., in root on W. side of 30-in. white-oak tree; copper nail and washer

780.8

T. 62 N., R. 11 W., 60 ft. N. and 25 ft. W. from old State Highway 15 at curve, on NW. corner of SW. head wall of concrete culvert; chiseled square

805.18

T. 62 N., R. 11 W., in SE 1/4 sec. 1, 110 ft. W. of State Highway 15, about 500 ft. N. of dwelling, in E. side of twin wild-cherry tree; copper nail and washer

806.16

Edina, 5 mi. N. of, along State Highway 15, 25 ft. S. and 145 ft. W. from junction of rd. W., in root on W. side of 18-in. maple tree; copper nail and washer

794.12

Edina, 0.6 mi. N. of, along State Highway 15, on concrete base at SE. end of bridge over North Fork of South Fabius River; chiseled square

737.73

U.S.C. & G.S. standard disk stamped "Q 15 1935"

752.758

754.123

Iron post stamped "696 A"

695.538

4. FROM POINT 1/4 MILES EAST OF EDINA WEST ALONG STATE HIGHWAY 6 INTO LA PLATA QUADRANGLE (by P. Y. Brown in 1956)

U.S.C. & G.S. standard disk stamped "U 15 1933"

774.828

Edina, 3 mi. E. of, 65 ft. N. and 30 ft. E. from junction of rd. N., in concrete post; standard tablet stamped "1127 C W A 1934"

774.619

Reference mark, 15 ft. N. of highway, 15 ft. W. of rd. N., on N. end of W. head wall of culvert; chiseled square

745.87

T. 62 N., R. 11 W., on line between secs. 16 and 21, 25 ft. N. of highway, on N. end of E. abutment of bridge J-593 1933; chiseled square

742.27

Edina, 2 mi. E. of, at drive to Clancy School, 15 ft. S. of highway, on N. end of E. head wall of culvert; chiseled square

770.78

Edina, 1.8 mi. S. of, 60 ft. W. of junction of rd. SE., in concrete post; standard tablet stamped "775 C" 1933; chiseled square

777.93

Edina, 1.8 mi. S. of, 60 ft. W. of junction of rd. SE., in root on N. side of 18-in. white-oak tree; crossed nails

792.76
Edina, 10 ft. S. of SE. corner of courthouse, in concrete post; aluminum tablet stamped "1914 A" (as reset in 1936; old elev. 91 ft.)

Reference mark, 15 ft. N. and 15 ft. E. from tablet, in root on N. side of 15-in. elm tree; copper nail and washer

U.S.C. & G.S. standard disk stamped "M 126 C W A 1936"

Edina, 0.5 mi. S. of 0.2 mi. N. of junction of State Highway 15, 20 ft. E. of highway, on S. end of 3-ft. abutment of bridge N-770 1955 over South Fork of South Platte River; chiseled square

Edina, 1.5 mi. S. and W. from 6/0 ft. S. and 310 ft. W. from crossroad, in large field, at W. edge of ditch, in root on W. side of 10-in. elm tree; copper nail and washer; standard tablet stamped "126 C W A 1936"

Edina, 1.7 mi. S. and W. from 6/0 ft. S. and 120 ft. E. from junction of rd. S., in concrete post; standard tablet stamped "126 C W A 1936"

Juncton, 10 ft. S. and 115 ft. E. from, on center of S. head wall of concrete culvert; chiseled square

Edina, 3 mi. W. of 50 ft. N. and 120 ft. E. from crossroad, on W. end of large concrete culvert; chiseled square

T. 62 N., R. 12 W., 12.0 ft. S. of E. sixteenth cor. to farm of Roy A. Lang, on center of E. head wall of concrete culvert; chiseled square

T. 62 N., R. 12 W., near E. sixteenth cor. between secs. 21 and 28, 120 ft. N. of highway, 12 ft. E. of rd. N., on center of E. head wall of concrete culvert; chiseled square

T. 62 N., R. 12 W., on line between secs. 21 and 28, at curve in highway, 35 ft. S. and 15 ft. W. from junction of rds. S. and W., on center of S. head wall of concrete culvert; chiseled square

(Continued in La Plata quadrangle; see line 8.)


T. 61 N., R. 10 W., on line between secs. 28 and 33, 225 ft. W. of entrance to farmq, 50 ft. S. of rd., in root on N. side of 22-in. elm tree; crossed nails

T. 61 N., R. 10 W., near cor. secs. 28, 29, 32, and 33, 20 ft. N. and 40 ft. E. from crossroads, 25 ft. E. of fence corner, in root on W. side of 8-in. hedge tree; copper nail and washer

T. 61 N., R. 10 W., near quarter cor. between secs. 29 and 32, 90 ft. S. and 125 ft. W. from T-rd. S., in NE. corner of base of windmill; top of painted bolt head


T. 61 N., R., 10 W., on line between secs. 26 and 35, 160 ft. W. of small steel bridge, 35 ft. S. of rd., in fence line, in root on E. side of 20-in. elm tree; crossed nails


T. 61 N., R., 10 W., near quarter cor. between secs. 27 and 34, 15 ft. N. and 60 ft. E. from T-rd. N., in root on S. side of 20-in. elm tree; copper nail and washer

Marques triangulation sta.; U.S.C. & G.S. standard disk stamped "435 A" (as reset in 1936; old elev. 107 ft.)

U.S.G.S. 0.0 standard reference disk stamped "Mark No. 2 1931"

T. 61 N., R. 11 W., near S. sixteenth cor. between secs. 28 and 33, 315 ft. NE. of farmhouse, 50 ft. S. of rd., in root on N. side of 15-in. cedar tree; copper nail and washer

T. 61 N., R. 11 W., on line between secs. 28 and 33, 55 ft. SW. of farmhouse, 110 ft. N. of rd., in root on S. side of 22-in. elm tree; crossed nails

T. 61 N., R. 11 W., cor. secs. 28, 29, 32, and 33, 55 ft. W. of E. corner of Methodist Church, in concrete post; standard tablet stamped "12 B 1936"

T. 61 N., R. 11 W., on line between secs. 28 and 33, 110 ft. W. from T-rd. N., in concrete post; standard tablet stamped "12 B 1936"

T. 61 N., R. 11 W., cor. secs. 29, 30, 31, and 32, 90 ft. S. and 20 ft. W. from T-rd. E., 50 ft. N. of bridge, in fence line, in root on E. side of 16-in. elm tree; copper nail and washer

Farmhouse, 45 ft. E. of rd., 20 ft. E. of field gate, in fence line, in root on N. side of 16-in. white-oak tree; crossed nails

T. 60 N., R. 11 W., near N. sixteenth cor. between secs. 5 and 6, 150 ft. S. of T-rd. W., 25 ft. W. of rd., in fence line, in root on S. side of twin 16-in. elm tree; copper nail and washer


813.620

814.32

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6. FROM LA BELLE QUADRANGLE AT SEC. 22, T. 63 N., R. 10 W. (by F. Y. Brown in 1937) (Continued from La Belle quadrangle; see line 6.)

T. 63 N., R. 10 W., near W. sixteenth cor. between secs. 22 and 27, 15 ft. S. and 15 ft. W. from T-rd. S., on W. end of concrete culvert; (mark not described) 635.95 TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY FIRST-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE ABOUT 3 MILES WEST OF EDINA (by F. Y. Brown in 1936)

T. 62 N., R. 12 W., near E. sixteenth cor. between secs. 21 and 28, 80 ft. E. of highway, 12 ft. E. of rd. N., on center of E. head wall of small concrete culvert; chiseled square U.S.C. & G.S. standard disk stamped "A 16 1933" For additional level lines along Quincy, Omaha & Kansas City R.R., Atchison, Topeka & Santa Fe Ry., and State Highway 15, refer to United States Coast and Geodetic Survey first-order line, Quincy, Ill. to Milan, Mo.; and second-order lines, Hurdland to Fort Madison, Iowa and Laddonia to Edina.
1. ISOLATED BENCHMARKS (not shown on diagram; by D. V. Vandiver in 1905)

- Pleasant View School, 1 mi. N. of Cherry Box, 60 ft. W. of school, at rd. forks, opposite mail boxes; iron post stamped "1905 B7j Adj"
  - 788.836

- Cherry Box, 1.5 mi. S. and 0.5 mi. W. from, near N. cor. secs. 2 and 3, T. 59 N., R. 11 W., 700 ft. S. of Knox-Shelby county line, in NW. corner of foundation stone of Hickman dwelling; aluminum tablet stamped "1905 B71 Adj" 791.627

- Shirleyville, 500 ft. S. of O'Brien Chapel, in SE. cornerstone of O'Brien School; aluminum tablet stamped "1905 788 Adj" 788.552

- T. 58 N., R. 10 W., near cor. secs. 6, 7, and 8, 3 mi. NW. of Shirleyville, in SW. corner of dwelling of William Werter; aluminum tablet stamped "1905 785 Adj" 784.830

- T. 58 N., R. 9 W., near cor. secs. 5, 6, 7, and 8, 3 mi. NW. of Shelbyville, 2 ft. E. of S. entrance to courthouse, in foundation stone; aluminum tablet stamped "1905 77k Adj" 772

- T. 60 N., R. 12 W., in S 1/2 sec. 26, 765 ft. W. of Pleasant View School, 20 ft. N. of T-rd. S.; iron post stamped "1905 B7j Adj" (same as "81j" above) 81f.8.836

2. FROM NEWARK QUADRANGLE AT POINT ABOUT 1 MILE EAST OF BETHEL SOUTHWEST TO POINT 0.5 MILE SOUTH OF BETHEL (by A. R. Friend in 1936)

  - 712.734

- Bethel, on NW. corner of State Highway 15 bridge over North River, in base of concrete handrail; standard tablet (set by water-resources branch of U.S. Geol. Survey) 708.165

3. FROM ATLANTA QUADRANGLE AT SEC. 33, T. 58 N., R. 12 W., NORTH THROUGH HAGERS GROVE TO POINT ABOUT 2 MILES EAST OF LEONARD (by Cornish Beck in 1936)

- T. 58 N., R. 12 W., in E 1/2 sec. 33, 210 ft. N. and 4 ft. W. from rd. forks, in root on SE. side of 24-in. cottonwood tree; copper nail and washer 816.14

- Bridge, 15 ft. S. and 20 ft. E. from SE. corner of, in E. side of 30-in. elm tree 715.84


- T. 58 N., R. 12 W., S. sixteenth cor. between secs. 15 and 16, 20 ft. S. and 4 ft. W. from T-rd. W., 2 ft. S. of fence, in concrete post; standard tablet stamped "C W A 1936" 725.5h1
Bridge over Salt River, on SW. pivot of SW. pier; chiseled cross

Hagers Grove, 0.1 mi. N. and 0.2 mi. E. from, 6 ft. S. and 16 ft. E. from T-rd. E., on head wall of culvert; chiseled square

Hagers Grove, 1 mi. N. of, E. sixteenth cor. sec. 10, T. 56 N., R. 12 W., 60 ft. N. and 60 ft. E. from T-rd. S., 3 ft. W. and 1 ft. W. from SW. corner of schoolhouse, in concrete post; standard tablet stamped "6 B 1935"

T. 56 N., R. 12 W., quarter cor. between secs. 3 and 10, 35 ft. E. of rd. at E.-W. fence, in root on NW. side of 22-in. post-oak tree; copper nail and washer

T. 56 N., R. 12 W., 16th cor. on N. line cor. 12, 25 ft. S. and 25 ft. E. from T-rd. S., in corner fence post; nail

T-rd. W., 27 ft. N. and 30 ft. W. from, in corner fence post; nail

T-rd. W., R. 12 W., cor. secs. 26, 27, 35, 18 ft. S. and 60 ft. W. from rd. at N.-S. fence, in root on NW. side of 14-in. elm tree; copper nail and washer


Leonard, 1 mi. S., thence 0.5 mi. E. from, near quarter cor. between secs. 20 and 31, T. 59 N., R. 11 W., 20 ft. S. and 25 ft. E. from T-rd. S., in gatepost; nail

Leonard, 1 mi. S., thence 0.8 mi. E. from, between sixteenth cor. between secs. 20 and 31, T. 59 N., R. 11 W., 18 ft. S. and 33 ft. W. from T-rd. N., in root on N. side of 24-in. hickory tree; copper nail and washer

Leonard, 1 mi. S., thence 2 mi. E. from, cor. secs. 20, 21, 28, and 29, T. 59 N., R. 11 W., 10 ft. S. and 20 ft. W. from crossroad, in S. side of corner fence post; copper nail and washer

U.S.C. & G.S. standard disk stamped "B 1935"

4. FROM SHELBINA QUADRANGLE AT SEC. 12, T. 57 N., R. 12 W., WEST 4 MILES TO STATE HIGHWAY 15 AT POINT ABOUT 3 MILES SOUTH OF SHELBIVILLE (by Cornish Beck in 1936)

(Continued from Shelbina quadrangle; see line 5.)

T. 57 N., R. 12 W., E. cor. secs. 12 and 13, 24 ft. S. and 9 ft. W. from T-rd. W., on head wall of culvert; chiseled square

T. 57 N., R. 12 W., on center sec. 14, 7, 8, 17, and 18, 20 ft. S. and 130 ft. E. from T-rd. S., in root on S. side of 20-in. elm tree; copper nail and washer

T. 57 N., R. 12 W., on line between secs. 8 and 17, 60 ft. N. and 30 ft. E. from T-rd. N., in W. side of apple tree; nail

T. 57 N., R. 12 W., cor. secs. 8, 9, 16, and 17, 52 ft. N. and 27 ft. W. from crossroads, in concrete post; standard tablet stamped "1 B 1936"

(Por balance in Shelbina quadrangle, see line 5.)

T. 57 N., R. 11 W., 0.1 mi. S. of cor. secs. 3, 4, 9, and 10, 12 ft. S. and 15 ft. E. from T-rd. W., in W. side of gatepost; nail

Bridge over Salt River, on W. pivot of SW. pier; chiseled cross


Tps. 57 and 58 N., R. 11 W., on line between secs. 2 and 35, at crossroads; on NE. corner of concrete floor of bridge; chiseled square

T. 57 N., R. 11 W., E. 12th cor. of, 1 and 2, 6 ft. N. and 200 ft. E. from T-rd. S., on concrete head wall of bridge; chiseled square

Tps. 57 and 58 N., Rs. 10 and 11 W., cor. of, 21 ft. S. and 21 ft. E. from crossroads, in concrete post; standard tablet stamped "B 1936"

T. 57 N., R. 10 W., near N. quarter cor. sec. 5, and 6, 18 ft. S. and 15 ft. W. from rd. at hedge fence S., in S. side of gatepost; nail

T. 57 N., R. 10 W., near N. quarter cor. sec. 5, and 6, 18 ft. S. and 15 ft. W. from State Highway 15 at crossroad, on iron pipe culvert; chiseled square

U.S.C. & G.S. standard disk stamped "2 133 1935"

5. FROM NEWARK QUADRANGLE AT POINT 4 MILES NORTH OF BETHEL, WEST 2 MILES, TO STATE HIGHWAY 15; THENCE SOUTH ALONG HIGHWAY TO BETHEL (by F.Y. Brown in 1946)

(Continued from Newark quadrangle; see line 7.)

T. 59 N., R. 10 W., near center sec. 10, 10 ft. N. and 20 ft. E. from T-rd. E., 100 ft. W. of Shilo Church, in root on S. side of 16-in. mulberry tree; copper nail and washer

T. 59 N., R. 10 W., near center sec. 15, 45 ft. N. and 60 ft. W. from T-rd. N., 60 ft. S. of SE. corner of dwelling of Cyrus Latimer, in root on W. side of 26-in. mulberry tree; copper nail and washer

Concrete culvert, on W. end of N. head wall; chiseled square

Bethel, 2.5 mi. N. of, 27 ft. S. and 30 ft. E. from junction of rd. S. at intersection of tangents of State Highway 15 on curve, in concrete post; standard tablet stamped "2 1 0 1935"

771.52
798.81
778.95
770.00
769.83
784.16
784.16
785.00
778.95
777.10
798.58
778.97
778.95
776.62
768.58
Part 6, Northeastern Missouri, 1896-1958

T. 60 N., R. 12 W., on line between sees.

T-rd. N., 30 ft. N. and 75 ft. E. from, in root on W. side of tree; crossed nails

Bethel, 15 ft. N. and 20 ft. W. from junction of rd. E., on S. end of W. head wall of concrete culvert; chiseled square

6. FROM EDINA QUADRANGLE AT SEC. 21, T. 60 N., R. 12 W., SOUTH TO POINT 3 MILES SOUTH OF CHERRY BOX (by F. Y. Brown in 1956) (Continued from La Plata quadrangle; see line 5.)

T. 60 N., R. 12 W., cor. secs. 16, 17, 20, and 21, 30 ft. N. and 95 ft. W. from T-rd. N., 10 ft. S. and 7 ft. W. from SW. corner of Perry School, in concrete post; standard tablet stamped "3 B 1936" 12 ft. S. and 100 ft. W. from "Prim Trav Sta 3 1905", rusted off at ground level.

Reference mark, 27 ft. N. and 60 ft. E. from tablet, in root on SE. side of 30-in. black-oak tree; copper nail and washer

T. 60 N., R. 12 W., near E. sixteenth cor. between secs. 16 and 21, 15 ft. W. and 30 ft. N. from T-rd. S., 3 ft. E. from SW. corner of farmhouse, in root on SE. side of 14-in. maple tree; copper nail and washer

T. 60 N., R. 12 W., near E. sixteenth cor. between secs. 16 and 21, 15 ft. N. and 95 ft. W. from T-rd. S., 24 ft. E. of SE. corner of farmhouse, in root on SE. side of 14-in. maple tree; copper nail and washer


Dwelling of W. Grove Housey, 50 ft. E. of SE. cor. of, 40 ft. W. of rd.; in root on E. side of 14-in. elm tree; crossed nails

T. 60 N., R. 12 W., near quarter cor. between secs. 27 and 28, 455 ft. N. of T-rd. E., 60 ft. W. of rd., in root on SE. side of 20-in. maple tree; copper nail and washer

T. 60 N., R. 12 W., on line between secs. 27 and 28, 115 ft. N. and 95 ft. W. from T-rd. S., 24 ft. E. of SE. corner of farmhouse, in root on N. side of 10-in. elm tree; copper nail and washer


T. 60 N., R. 12 W., near S. sixteenth cor. between secs. 33 and 34, 0.3 mi. S. of T-rd. E., 20 ft. S. of SW. corner of farmhouse of Cary Wallace, 60 ft. E. of rd., in root on W. side of 36-in. maple tree; copper nail and washer


T. 59 N., R. 12 W., near quarter cor. between secs. 3 and 4, 350 ft. S. and 110 ft. E. from crossroads, in root on S. side of 10-in. elm tree; copper nail and washer

Cherry Box, 1 mi. N. of, in front of farmhouse of Melvln Dutton, 20 ft. E. of rd., on center of concrete step; chiseled square

Cherry Box, 0.5 mi. N. of, 100 ft. W. of rd., in schoolyard, on NW. corner of concrete cistern top; chiseled square

Cherry Box, 60 ft. N. and 50 ft. E. from NE. corner of Christian Church, 15 ft. W. of rd., in concrete post; standard tablet stamped "2 B 1956"

Cherry Box, 0.5 mi. S. of, 60 ft. W. of rd.; in farmyard, in root on E. side of 10-in. elm tree; crossed nails

Cherry Box, 1 mi. S. of, 150 ft. W. and 70 ft. E. from crossroads, 20 ft. N. and 15 ft. W. from NW. corner of Methodist Church, in root on W. side of 20-in. elm tree; copper nail and washer

T. 59 N., R. 12 W., on line between secs. 22 and 21, 15 ft. S. and 25 ft. W. from T-rd. W., on center of S. head wall of concrete culvert; chiseled square

Cherry Box, 2 mi. S. of, cor. secs. 21, 22, 27, and 28, T. 59 N., R. 12 W., 150 ft. S. and 70 ft. E. from crossroads, 20 ft. N. and 15 ft. W. from NW. corner of Methodist Church, in root on W. side of 10-in. elm tree; copper nail and washer

T. 59 N., R. 12 W., on line between secs. 27 and 28, 15 ft. S. and 25 ft. W. from T-rd. W., on center of S. head wall of concrete culvert; chiseled square

T. 59 N., R. 12 W., on line between secs. 27 and 28, 15 ft. E. of Fairview School, 40 ft. W. of rd., on center of concrete step; chiseled square

7. FROM SEC. 10, T. 60 N., R. 12 W., EAST TO POINT 1 MILE NORTH OF PLEVNA, THENCE EAST ALONG COUNTY ROUTE B INTO NEWARK QUADRANGLE AT SEC. 22, T. 60 N., R. 10 W. (by F. Y. Brown in 1956)

Shelby County Northwestern R.R. (now abandoned) at rd. crossing, 20 ft. N. and 100 ft. W. from, opposite barn of C. V. Norris, in root on E. side of 12-in. elm tree; copper nail and washer

Novel, 0.5 mi. N. of, near quarter cor. between secs. 15 and 22, T. 60 N., R. 12 W., 35 ft. S. and 15 ft. E. from crossroads, in root on N. side of 18-in. black-oak tree; copper nail and washer

T-rd. W., 50 ft. N. and 75 ft. E. from, in root on W. side of 14-in. hickory tree; crossed nails

T. 60 N., R. 12 W., on line between secs. 15 and 23, 15 ft. N. and 90 ft. W. from T-rd. W., in root on E. side of 14-in. hickory tree; copper nail and washer

810.06
Farmhouse of James Ross, in front yard, 25 ft. S. of rd., in root on N. side of 10-in. catalpa tree; crossed nails

T. 60 N., Rs. 11 and 12 W., approximate cor. secs. 13, 18, 19, and 21, 10 ft. S. and 50 ft. E. from County Route H at crossroad, in farmyard of B. P. Hunsaker, in root on W. side of 40-in. elm tree; copper nail and washer


T. 60 N., R. 11 W., in N 1/2 sec. 19, 195 ft. W. of small steel bridge, 50 ft. S. of rd., in root on N. side of 36-in. white-oak tree; crossed nails

T. 60 N., R. 11 W., near N. sixteenth cor. between secs. 19 and 20, 20 ft. N. and 210 ft. E. from T-rd. S., in fence line, in root on N. side of 8-in. ash tree; copper nail and washer

T. 60 N., R. 11 W., sixteenth cor. sec. 21, 65 ft. N. and 15 ft. W. from dim T-rd. N. and hedge fence S., in root on NE. side of 34-in. locust tree; copper nail and washer

T. 60 N., R. 11 W., E. sixteenth cor. sec. 21, 24 ft. N. and 12 ft. W. from State Highway 15 at rd. W., in root on N. side of 18-in. black-oak tree; copper nail and washer

Plevna, 1 mi. N. and 1 mi. W. from, near center sec. 22, T. 60 N., R. 11 W., 50 ft. S. of small steel bridge over Little Fabius River, 25 ft. E. of fence, in concrete post; standard tablet (set to replace "Prim Trav Sta No k")

Plevna, 1 mi. N. of, center sec. 22, T. 60 N., R. 11 W., 40 ft. N. of junction of State Highway 15 and County Route B, 295 ft. E. of crossroad, in root on S. side of 22-in. locust tree; copper nail and washer

Mount Salem Church, 600 ft. W. of, at top of hill, 25 ft. N. of highway, 6 ft. W. of gate, on center of S. wall of concrete well; chiseled square

T. 60 N., R. 10 W., quarter cor. between secs. 19 and 20, 55 ft. N. and 26 ft. E. from junction of rd. N., 3 ft. NE. of corner fence post, in concrete post; standard tablet stamped "B 1936"

T. 60 N., R. 10 W., center sec. 20, 40 ft. N. and 35 ft. E. from junction of rd. S., 6 ft. W. of fence line, in root on S. side of 25-in. sycamore tree; copper nail and washer

T. 60 N., R. 10 W., quarter cor. between secs. 20 and 21, 555 ft. W. of junction of rd. N., 20 ft. N. of highway, in root on S. side of 15-in. elm tree; copper nail and washer

T. 60 N., R. 10 W., in W 1/2 sec. 21, 300 ft. E. of junction of rd. S., 66 ft. E. of fence corner, in root on N. side of 22-in. maple tree; copper nail and washer

T. 60 N., R. 10 W., in SE 1/4 sec. 21, 50 ft. S. and 65 ft. E. from junction of rd. N., 20 ft. S. of highway, in root on N. side of 12-in. elm tree; copper nail and washer

T. 60 N., R. 10 W., on line between secs. 21 and 22, 25 ft. N. of junction of rd. S., in base of telephone pole; spike

(Continued in Newark quadrangle; see line 6.)

For an additional level line along State Highway 15 and County Routes M and H, refer to United States Coast and Geodetic Survey second-order line, Laddonia to Edina.
1. FROM SHELBINA WEST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO MACON QUADRANGLE (by D. V. Vandiver in 1905)

Shelbina, opposite W. end of sta. across from Waverly Hotel; iron post stamped "1905 780 Adj 194" feet
Lentner, 1.2 mi. E. of, 1.5 mi. W. of Shelbina, 70 ft. S. of track, in E. corner of field on property of Mr. Cooper; iron post stamped "1905 789 Adj 194"
T. 57 N., R. 11 W., on R. S. line through center sec. 19, 30 ft. S. and 15 ft. E. from U.S. Highway 36 at fence R.; iron post stamped "791 Q 194"
Clarence, 2.8 mi. E. of, in sec. 23, T. 57 N., R. 12 W., 110 ft. S. of track, 2 ft. S. of road; iron post stamped "1905 790 Adj 194"

(Continued in Macon quadrangle; see line 2.)

2. FROM HUHNEWELL QUADRANGLE AT SEC. 11, T. 57 N., R. 10 W., WEST TO SEC. 16, T. 57 N., R. 10 W. (by J. H. Vinyard in 1936)

Shelbina, 1 mi. N. and 2 mi. E. from, 16th cor. between secs. 10 and 11, T. 57 N., R. 10 W., opposite 2d, S. of S., in concrete post; standard tablet stamped "814 C.W.A. 1936" feet
Reference mark, 6 ft. NE. of tablet, in root of twin hickory tree; copper nail and washer
T. 57 N., R. 10 W., near quarter cor. between secs. 15 and 16, NE. corner of T-rd., on concrete base of fence post; chiseled square
T. 57 N., R. 10 W., 500 ft. W. of cor. secs. 15, 16, 21, and 22, N. of road, in root of 18-in. elm tree; copper nail and washer

(Continued from Huhnewell quadrangle; see line 3.)

3. FROM HUHNEWELL QUADRANGLE NORTHWEST ALONG U.S. HIGHWAY 36 INTO MACON QUADRANGLE (by Cornish Beck in 1936)

Shelbina, at E. limits of, 110 ft. S. and 380 ft. E. from junct. of road E., 15 ft. S. of highway at curve, on head wall of culvert; chiseled square
Shelbina, at W. limits of, 140 ft. N. and 8 ft. W. from crossroad, 12 ft. N. of R. R., on head wall of culvert; chiseled square
T. 57 N., R. 10 and 11 W., on line between secs. 11 and 16, 20 ft. S. and 175 ft. W. from junct. of road R., on NW. corner of base of R.R. semaphore; chiseled square
Junction of road R., 27 ft. N. and 12 ft. E. from, on head wall of culvert; chiseled square
T. 57 N., R. 11 W., in NE 1/4 sec. 26, 140 ft. S. and 2 ft. E. from highway at fence N., in concrete post; standard tablet stamped "1936 R R A 1936" feet
T. 57 N., R. 11 W., in S 1/2 sec. 26, 30 ft. S. and 18 ft. E. from crossroad, on head wall of culvert; chiseled square
T. 57 N., R. 11 W., on line between secs. 26 and 27, 20 ft. S. of highway, 345 ft. W. of fence R., on S. head wall of culvert; chiseled square
T. 57 N., R. 11 W., on line between secs. 27 and 28, 27 ft. S. and 18 ft. E. from crossroad, on head wall of culvert; chiseled square
Lentner, on line between secs. 28 and 29, T. 57 N., R. 11 W., 40 ft. S. and 110 ft. E. from N.-S. crossroad, in concrete post; standard tablet stamped "1539 ERA 1935"

Lentner, about 1 mi. W. of, on SE. wing wall of bridge over Crooked Creek; chiseled square

T. 57 N., R. 12 W., on line between secs. 28 and 29, T. 57 N., R. 11 W., 35 ft. S. and 60 ft. E. from N.-S. crossroad, in concrete post; standard tablet stamped "1530 ERA 1935"

T. 57 N., R. 12 W., in NW 1/4 sec. 25, 50 ft. S. and 120 ft. E. from crossroad, on head wall of culvert; chiseled square

T. 57 N., R. 12 W., on line between secs. 15 and 16, 70 ft. S. and 65 ft. E. from highway at fence N., on head wall of culvert; chiseled square

(Continued in Macon quadrangle; see line 7.)

FROM MACON QUADRANGLE AT SEC. 21, T. 56 N., R. 12 W., EAST TO SEC. 32, T. 56 N., R. 10 W. (by Cornish Beck in 1936)

T. 56 N., R. 12 W., E. sixteenth cor. between secs. 21 and 28, 12 ft. N. and 150 ft. E. from T-rd. N., on head wall of concrete culvert; chiseled square

T. 56 N., R. 12 W., 9 ft. S. and 565 ft. W. from, on head wall of culvert; chiseled square

T. 56 N., R. 12 W., cor. secs. 22, 23, 26, and 27, 14 ft. S. and 15 ft. E. from T-rd. N., on head wall of culvert; chiseled square

T. 56 N., R. 12 W., on line between secs. 22, 23, 24, 25, 26, and 27, 55 ft. N. and 130 ft. E. from abandoned street at fence N., in concrete post; standard tablet stamped "9 B 1936"

T. 56 N., R. 12 W., on line between secs. 21 and 25, on pump foundation; chiseled square

T. 56 N., R. 11 W., cor. secs. 19 and 50, 12 ft. S. and 12 ft. E. from T-rd. S. at crossroads, on Monroe-Shelby county line, on head wall of culvert; chiseled square

T. 56 N., R. 11 W., cor. secs. 19, 20, 29, and 30, 18 ft. S. and 15 ft. E. from abandoned street, on E. edge of iron pipe culvert; painted square

T. 56 N., R. 11 W., on line between secs. 20 and 29, 25 ft. N. of T-rd. N., in S. side of telephone pole; nail

T. 56 N., R. 11 W., cor. secs. 20, 21, 25, and 29, 30 ft. N. and 15 ft. W. from T-rd. N., in concrete post; standard tablet stamped "9 B 1936"

T. 56 N., R. 11 W., cor. secs. 23, 22, 27, and 28, 10 ft. S. and 20 ft. W. from crossroads, on wall of culvert; chiseled square

T. 56 N., R. 11 W., on line between secs. 22 and 27, 65 ft. S. and 10 ft. E. from T-rd. S., on E. edge of iron pipe culvert; painted square

T. 56 N., R. 11 W., in SW 1/4 sec. 25, 2 ft. S. and 7 ft. E. from BE. corner of church, 35 ft. S. of rd.; in concrete post; standard tablet stamped "10 B 1936"

T. 56 N., R. 11 W., 16 ft. S. and 30 ft. E. from, in corner fence post; nail

T. 56 N., R. 11 W., 18 ft. N. and 16 ft. E. from, in corner fence post; nail

T. 56 N., R. 11 W., near W. sixteenth cor. between secs. 25 and 36, 12 ft. E. and 50 ft. W. from, in corner of bridge over Crooked Creek, 20 ft. E. of rd., at gatepost, in W. side of 12-in. birch tree; nail

T. 56 N., R. 10 W., in SW 1/4 sec. 30, 100 ft. SW. of W. corner of bridge over Crooked Creek, 20 ft. E. of rd., at gatepost, in W. side of 12-in. birch tree; nail

T. 56 N., R. 10 W., in W 1/2 sec. 30, near T-rd. E., on N. end of iron pipe culvert; painted square

T. 56 N., R. 10 W., near quarter cor. between secs. 29 and 30, 10 ft. N. and 65 ft. W. from rd. forks, 3 ft. S. of fence, in concrete post; standard tablet stamped "11 B 1936"

T. 56 N., R. 10 W., E. sixteenth cor. between secs. 29 and 32, 14 ft. S. and 9 ft. E. from crossroads, on head wall of culvert; chiseled square

T. 56 N., R. 10 W., in SE 1/4 sec. 32, 355 ft. S. and 30 ft. W. from, on base of concrete gatepost; chiseled square


FROM POINT 2 MILES WEST OF LENTNER NORTH, THENCE WEST INTO SHELBYVILLE QUADRANGLE AT SEC. 9, T. 57 N., R. 11 W. (by Cornish Beck in 1936)

T. 57 N., R. 12 W., E. cor. secs. 13 and 24, 15 ft. N. and 12 ft. W. from T-rd. W., on concrete retaining wall of bridge; chiseled square

(For balance in Shelbyville quadrangle, see line 4.)

T. 57 N., R. 11 W., on line between secs. 9 and 16, 10 ft. W. and 30 ft. E. from T-rd. N., on head wall of culvert; chiseled square

T. 57 N., R. 11 W., cor. secs. 9, 10, 15, and 16, 35 ft. N. and 19 ft. E. from crossroads, in W. side of corner fence post; nail

(Continued in Shelbyville quadrangle; see line 4.)
6. FROM MACON QUADRANGLE EAST ALONG COUNTY ROUTE J, THENCE SOUTH ALONG COUNTY ROUTE T, THENCE EAST ALONG ROADS TO SEC. 34,
T. 55 N., R. 10 W. (by Cornish Beck in 1936)
(Continued from Macon quadrangle; see line 6.)

T. 55 N., R. 12 W., E. sixteenth cor. between secs. 3 and 10, 30 ft. N. and 15 ft. E. from crossroad, on concrete foundation of corner fence post; chiseled square
Woodlawn, 25 ft. S. and 100 ft. W. from junction of rd. N., on concrete
floor of porch; chiseled square
Woodlawn, 0.5 mi. E. of, near E. sixteenth cor. between secs. 2 and 11, T. 55 N., R. 12 W., 35 ft. N. and 65 ft. E. from junction of County Route T, in root on S. side of 30-in. maple tree; copper nail and washer
Woodlawn, 0.5 mi. E. of, thence 1 mi. S. from, T. 55 N., R. 12 W., corner of Oak Grove Church; iron post stamped "Prim Trav Sta No 11905" 795.997
T. 55 N., R. 12 W., on line between secs. 12 and 13, 20 ft. S. and 25 ft. W. from T-rd. S., in root on NE. side of 25-in. elm tree; copper nail and washer
T-rd. N., 15 ft. N. and 135 ft. W. from, in N. side of 7-in. elm tree; nail
T. 55 N., R. 11 W., cor. secs. 7, 8, 17, and 18, 12 ft. S. and 100 ft. W. from crossroads, on head wall of culvert; chiseled square
T. 55 N., R. 10 W., near E. sixteenth cor. between secs. 8, 9, 16, and 17 (1/2 mi. N. of), 15 ft. N. and 25 ft. E. from T-rd. S., in concrete post; standard tablet stamped "13 B 1936"
T. 55 N., R. 11 W., near W. sixteenth cor. between secs. 10 and 15, 100 ft. S. and 12 ft. W. from County Route A at crossroad, on NW. corner of bridge; chiseled square
T. 55 N., R. 11 W., in SW 1/4 sec. 15, 17 ft. N. and 30 ft. E. from County Route A at rd. E., in W. side of corner fence post; nail
T. 55 N., R. 11 W., W. sixteenth cor. sec. 22, on County Route A, 20 ft. N. and 20 ft. E. from stone in E.-W. crossroad, in SW. corner of field of J. Williams; iron post stamped "Prim Trav Sta No 101906"
T. 55 N., R. 11 W., in SW 1/4 sec. 21, 285 ft. N. and 20 ft. W. from junction of private rd.; in root on E. side of 24-in. water-oak tree; copper nail and washer
T. 55 N., R. 11 W., cor. sec. 19, 20, 29, and 30, 15 ft. N. and 15 ft. E. from, in E. side of corner fence posts; nails
T. 55 N., R. 10 W., near center sec. 29, in yard of Smercer School, on carriage block; chiseled square
T. 55 N., R. 10 W., near E. sixteenth cor. between secs. 29 and 32, 15 ft. N. and 100 ft. E. from T-rd. N., on head wall of culvert; chiseled square
T. 55 N., R. 10 W., cor. secs. 27, 28, 33, and 34, 21 ft. N. and 21 ft. W. from T-rd. W.; iron post stamped "Prim Trav Sta No 91905"
Noel triangulation sta.; U.S.G. & G.S. standard disk stamped "Noel 1934"
T-rd. W., 25 ft. S. and 8 ft. E. from, in root on NE. side of 21-in. oak tree; nail
T. 55 N., R. 10 W., near center sec. 31, 10 ft. W. and 150 ft. S. W. from T-rd. S., on head wall of culvert; chiseled square
T. 55 N., R. 11 W., in SW 1/4 sec. 22, 17 ft. N. and 100 ft. W. from County Route A at crossroad; chiseled square
T. 55 N., R. 12 W., near center sec. 27, 28, 33, and 34, 21 ft. N. and 21 ft. W. from T-rd. W.; iron post stamped "Prim Trav Sta No 91905"
Noel triangulation sta.; U.S.G. & G.S. standard disk stamped "Noel 1934"
T-rd. W., 25 ft. S. and 8 ft. E. from, in root on NE. side of 21-in. oak tree; nail
T. 55 N., R. 10 W., near center sec. 31, 10 ft. W. and 150 ft. S. W. from T-rd. S., on head wall of culvert; chiseled square
T. 55 N., R. 12 W., near E. sixteenth cor. sec. 16, 50 ft. N. and 12 ft. W. from junction of rd. S., in S. side of 16-in. water-oak tree; nail
T. 55 N., R. 12 W., near corner cor. between secs. 15 and 16, 50 ft. W. and 55 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "64 C W A 1934"
T. 55 N., R. 12 W., near corner sec. 15, 25 ft. S. and 10 ft. W. from junction of rd. S., on head wall of culvert; chiseled square
T. 55 N., R. 12 W., near corner cor. between secs. 14 and 15, 25 ft. S. and 15 ft. E. from crossroad, on head wall of culvert; chiseled square
Madison, 0.6 mi. E. of, 22 ft. N. and 60 ft. E. from junction of rd. E., on head wall of culvert; chiseled square
U.S.G. & G.S. standard disk stamped "4 123 1935"
Madison, at E. limits of, 25 ft. S. and 20 ft. W. from junction of County Route T, on end of curb; chiseled square
Madison, 1.5 mi. E. of, 40 ft. S. and W. from, T. 55 N., R. 11 W., 3 ft. N. and 30 ft. W. from junction of rd. S., in concrete fence post; standard tablet stamped "1122 C W A 1934"
T. 55 N., R. 11 W., in SE 1/4 sec. 7, 75 ft. N. and 13 ft. W. from junction of rd. N., on head wall of culvert; chiseled square
Holliday triangulation sta.; U.S.G. & G.S. standard disk stamped "Holliday 1933"
U.S.G. & G.S. standard reference disk stamped "Holliday 1934"
U.S.G. & G.S. standard disk stamped "X 123 1935"
T. 55 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. E. and 90 ft. W. from junction of County Route A, on NW. wing wall of bridge; chiseled square
Published also as line 5 of the Madison quadrangle (see Bull. 898-D, pp. 873-874).
Holliday, 0.5 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 "Y 123 1935"
Holliday, 1 mi. S. and 1.5 mi. E. from, in NE 1/4 sec. 11, T. 51 N., R. 11 W., 24 ft. S. and 56 ft. W. from crossroad, 24 ft. E. of NE. corner of farmhouse of E. H. Williams, 2 ft. inside fence, in concrete post; standard tablet stamped "Holliday 1934"
U.S.C. & G.S. standard disk stamped "Y 123 1935"
T. 51 N., R. 11 W., 10 ft. E., near E. sixteenth cor. between secs. 12 and 13, 25 ft. N. and 12 ft. W. from crossroad, on head wall of culvert; chiseled square
T. 51 N., R. 11 W., 10 ft. E., near E. sixteenth cor. between secs. 7 and 18, 25 ft. S. and 16 ft. E. from crossroad, on head wall of culvert; chiseled square
T. 51 N., R. 10 W., in NE 1/4 sec. 16, 25 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 "B 123 1935"
T. 51 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 State Highway 15, refer to United States Coast and Geodetic Survey second-order line, Laddonia to Edina.

MACON QUADRANGLE
(Latitude 39°30'-39°45'; longitude 92°15'-92°30')
Macon, Monroe, Randolph, and Shelby Counties

1. FROM MOBERLY QUADRANGLE NORTH ALONG WABASH RAILROAD INTO ATLANTA QUADRANGLE (by D. V. Vandiver in 1905)
Cairo, at NE. corner of Bank of Cairo, in N. face of wall 1 ft. above concrete sidewalk; aluminum tablet stamped "1905 B6d Adj"
Jacksonville, on N. side of Randolph Street, 300 ft. N. of tracks, 6 ft. W. of SE. corner of bank; aluminum tablet stamped "1905 868 Adj"
Excello, 360 ft. SW. of sta., 200 ft. W. of tracks, in wall of Powell's drug store; aluminum tablet stamped "1905 871 Adj"
Macon, 3.5 mi. S. of, in small cemetery on Grant farm, 600 ft. E. of track, 150 ft. N. of rd.; in base of Grant's monument; aluminum tablet stamped "1905 823 Adj"
Macon, 20 ft. W. of S. entrance to courthouse, in limestone foundation; aluminum tablet stamped "1905 875 Adj"
Macon, 100 ft. W. of S. entrance to courthouse, in granite post; standard tablet stamped "1905 873 Adj"
(Continued in Atlanta quadrangle; see line 1.)

2. FROM SHELBYA QUADRANGLE NEAR CLARENCE WEST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO MACON (by D. V. Vandiver in 1905)
Clarence, in city park, 30 ft. S. and 25 ft. W. from intersection of Center and Walnut Streets, 120 ft. S. of track; iron post stamped "Prim Trav Sta No 18 1905 823"
823.476
Anatel, 70 ft. S. of E. end of Chicago, Burlington & Quincy R.R. sta., 40 ft. N. of store of E. J. Hogan; iron post stamped "1905 838 Adj" 857.941
Anatel, 3 mi. W. of, NW. of rd. crossing; iron post stamped "1905 837 Adj" 856.734
Macon, 3 mi. E. of, 0.2 mi. E. of rd. crossing, on NE. corner of stone abutment or bridge 61.67 over small stream; aluminum tablet stamped "1905 784 Adj" 783.663

3. FROM CLARENCE SOUTH ALONG ROADS TO ASH, THENCE WEST TO CAIRO
(by D. V. Vandiver in 1905)

Clarence, 3.5 mi. S. of, near SW. cor. sec. 33, T. 57 N., R. 12 W., 33 ft. N. and 70 ft. W. from crossroads, 41 ft. N. and 3 ft. W. from telegraph line; iron post stamped "Prim Trav Sta No 19 1905 787 Adj" 787.359
Enterprise, cor. secs. 16, 17, 20, and 21, 33 ft. N. and 26 ft. W. from crossroads, 49 ft. N. and 5 ft. E. from NE. corner of Enterprise Store; iron post stamped "Prim Trav Sta No 20 1905 611 Adj" 811.501
Kacon, 6 mi. S. of, on Monroe-Shelby county line, NW. of T-rd. N.; iron post stamped "1905 836 Adj" 808.070
Duncans Bridge, in SE. corner of yard of Fred Wedd (? F. Wedding); iron post stamped "Prim Trav Sta No 21 1905 717 Adj" 716.987
T. 55 N., R. 12 W., the sixteenth cor. between secs. 19 and 30, 120 ft. S. and 15 ft. W. from T-rd. W.; iron post stamped "1905 777 Adj" 776.234
Ash, 35 ft. NE. of NE. corner of Hickory Grove Baptist Church, 100 ft. S. and 72 ft. W. from crossroads; iron post stamped "1905 812 Adj" 810.787
Cairo, 0.5 mi. E. and 0.5 mi. N. from, W. sixteenth cor. sec. 35, T. 55 N., R. 13 W., near rd. corner from S.-E., in corner of field, 10 ft. W. of persimmon tree, 16 ft. SE. of corner fence post; iron post stamped "1905 821 Adj" 820.170
Cairo, 3.5 mi. E. of, S. cor. secs. 32 and 33, T. 55 N., R. 13 W., SW. of T-rd. N., in NE. corner of yard of O. R. Wood; iron post stamped "1905 836 Adj" 835.668

4. FROM ENTERPRISE WEST TO COX, THENCE SOUTHWEST TO JACKSONVILLE
(by D. V. Vandiver in 1905)

Enterprise, 3 mi. W. of, near cor. secs. 15, 21, 23, and 21; T. 56 N., R. 13 W., in SW. cor. of yard of W. N. Trussell; iron post stamped "1905 812 Adj" 780.711
Cox, in S 1/2 sec. 20, T. 56 N., R. 13 W., near NE. corner of Fairview Church; iron post stamped "835" 852.873
Jacksonville, 1.5 mi. N. and 0.5 mi. N. from, in SW 1/4/ sec. 5, T. 55 N., R. 13 W., NE. of T-rd. E., in SW. cor. of yard of D. R. Haultburton; iron post stamped "811" 810.374

5. FROM COLLEGE MOUND QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO MACON (by S. R. Archer in 1920)
(Continued from College Mound quadrangle; see line 1.)

Macon, about 0.5 mi. of, near E. sixteenth cor. between secs. 17 and 20, T. 57 N., R. 13 W., 35 ft. N. and 10 ft. W. from right-of-way fence at N.-S. fence, in top of NW. side of bent trunk of 5-in. oak tree; copper nail and washer 850.34
Macon, at Wabash Ry. bridge 1990 over R.R. tracks, at W. side of N. abutment, on top step of W. end of stone above concrete lower section (also third layer of stone below concrete parapet wall and bridge seat); chiseled square 880.14
Macon, at city waterworks tower, on top of N. corner of concrete base of NE. leg of tower; chiseled square 885.18

6. FROM MORELY QUADRANGLE AT SEC. 6, T. 54 N., R. 12 W., NORTH ALONG ROADS TO ASH (by O. D. Williams and J. H. Vinyard in 1934)

Ash, 0.5 mi. S. of, quarter cor. between secs. 6 and 31, Tps. 54 and 55 N., R. 12 W., S. of rd., in root of 146-in. locust tree; copper nail and washer 811.62

7. FROM SHELBYA QUADRANGLE NEAR CLARENCE SOUTH BY WAY OF ENTERPRISE, DUNCANS BRIDGE, AND ASH, INTO MORELY QUADRANGLE AT SEC. 6, T. 54 N., R. 12 W. (by Cornish Beck in 1936)
(Continued from Shelbina quadrangle; see line 5.)

Clarence, 1.5 mi. S. of, cor. secs. 20, 21, 28, and 29, T. 57 N., R. 12 W., 10 ft. N. and 18 ft. W. from crossroads, on head wall of culvert; chiseled square 815.00
Clarence, 2.5 mi. S. of, cor. secs. 28, 29, 32, and 33, T. 57 N., R. 12 W., 15 ft. S. and 16 ft. E. from crossroads, on S. end of iron pipe culvert; painted square 813.13
Clarence, 4.5 mi. S. of, cor. secs. 4, 5, 8, and 9, T. 56 N., R. 12 W., 18 ft. S. and 13 ft. E. from crossroads, on S. edge of iron pipe culvert; painted square 806.79
T. 56 N., R. 12 W., on line between secs. 8 and 9, 32 ft. N. and 15 ft. E. from T-rd. E., on head wall of culvert; chiseled square 773.49
Clarence, 5.5 mi. S. of, cor. secs. 8, 9, 16, and 17, T. 56 N., R. 12 W., 15 ft. S. and 19 ft. W. from T-rd. W., on head wall of culvert; chiseled square

Enterprise, 1 mi. S. of, cor. secs. 20, 21, 26, and 29, T. 56 N., R. 12 W., 15 ft. N. and 16 ft. E. from crossroads, on E. edge of iron pipe culvert; painted square

Enterprise, 2 mi. S. of, cor. secs. 26, 29, 32, and 33, T. 56 N., R. 12 W., 50 ft. N. and 25 ft. E. from crossroads, in W. side of fence post; bent nail

Enterprise, 3 mi. S. of, cor. secs. 32 and 33, T. 56 N., R. 12 W., 15 ft. S. and 18 ft. W. from T-rd. W., on head wall of culvert; chiseled square

Enterprise, 1 mi. S. of, cor. secs. 20, 21, 26, and 29, T. 56 N., R. 12 W., 24 ft. N. and 28 ft. W. from E.-W. rd. and abandoned rd. N.; iron pipe stamped "12 B 1936"

Duncans Bridge, about 1.3 mi. N. of, in B 1/2 sec. 5, T. 55 N., R. 12 W., 23 ft. N. and 23 ft. W. from T-rd. W.; in root on E. side of 26-in. oak tree; copper nail and washer

Duncans Bridge, about 0.1 mi. N. of, 12 ft. S. and 130 ft. E. from T-rd. E.; on head wall of culvert; chiseled square

Duncans Bridge, on SE. wing wall of bridge over Salt River; chiseled square

Duncans Bridge, 0.5 mi. W. of, 75 ft. N. of T-rd. S., in E. side of 22-in. wild-cherry tree; nail

T. 55 N., R. 12 W., in NW 1/4 sec. 17, on NW. wing wall of bridge; chiseled square


T. 55 N., R. 12 W., on line between secs. 17 and 18, on top of E. rivet of NE. wing wall of bridge; chiseled cross

T. 55 N., R. 12 W., cor. secs. 17, 18, 19, and 20; 40 ft. N. and 26 ft. W. from T-rd. N., in root on S. side of 26-in. white-oak tree; copper nail and washer

T. 55 N., R. 12 W., near E. sixteenth cor. sec. 19; 27 ft. S. of T-rd. N.; iron pipe stamped "15 B 1936"

T. 55 N., R. 12 W., in B 1/2 sec. 30, on SE. handrail support of bridge over Mud Creek; chiseled square

T. 55 N., R. 12 W., in SE. 1/4 sec. 30, 55 ft. N. and 16 ft. W. from rd. corner N.-W., in root on N. side of 12-in. white-oak tree; copper nail and washer

(Done in Macon quadrangle; see line 7.)

8. FROM DUNCANS BRIDGE EAST INTO SHELBINA QUADRANGLE (by Cornish Beck in 1936)

T. 55 N., R. 12 W., quarter cor. between secs. 4 and 9; 30 ft. N. and 15 ft. W. from T-rd. S., in S. side of corner fence post; nail

(Done in Shelbina quadrangle; see line 6.)

9. FROM CLARENCE NORTH INTO ATLANTA QUADRANGLE (by Cornish Beck in 1956)

Clarence, at N. limits of, 50 ft. S. of intersection of U.S. Highway 36 and County Route C; top of right-of-way post

(Continued in Atlanta quadrangle; see line 5.)

10. FROM EXCELLO WEST INTO COLLEGE MOUND QUADRANGLE (by J. J. Cräne in 1937)


Excello, 0.9 mi. W. of, along Ardmore-Excello rd., 100 ft. S. and 300 ft. E. from junction of dir. rd. S., in root on E. side of 20-in. black-oak tree; crossed nails

(Continued in College Mound quadrangle; see line 2.)

For additional level lines along Wabash Ry. and Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order lines, Hurdland to St. Charles and Laclede to Macon.
PART 6, NORTHEASTERN MISSOURI, 1896-1938

ATLANTA QUADRANGLE
(Latitude 39°45' - 40°00'; Longitude 92°15' - 92°30')
Knox, Macon, and Shelby Counties

1. FROM MACON QUADRANGLE NORTH ALONG WABASH RAILWAY INTO La PLATA QUADRANGLE (by D. V. Vandiver in 1905)

(Macon, 3.5 mi. N. of, NW. of rd. crossing; iron post stamped "1905 667 AdJ")

(Macon, 3.5 mi. N. of, NW. of rd. crossing; iron post stamped "1905 667 AdJ")


(Axtell, 2 mi. N. of, 100 ft. W. of track, at crossroads, on property of B. J. Simmons, in fence corner; iron post stamped "1905 901 AdJ")

(Atlanta, 12 ft. S. of Atlanta State Bank, in KW. cornerstone of foundation of Attleberry brick building; aluminum tablet stamped "1905 902 AdJ")

(Love Lake, 200 ft. W. of sta., in SE. corner of foundation of post office; aluminum tablet stamped "1905 915 AdJ")

(T. 60 N., R. 13 W., cor. secs. 19, 20, 29, and 30, at rd. crossing, 2 ft. inside of field; iron post stamped "1905 937 AdJ")

2. FROM LOVE LAKE EAST TO POINT 3.5 MILES EAST OF SUE CITY (by D. V. Vandiver in 1905)

(Love Lake, 3.8 mi. E. of, approximate cor. secs. 1, 2, 35, and 36, Tps. 59 and 60 N., R. 13 W.; iron post stamped "1905 855 AdJ")

(Sue City, in E. side of SE. corner of foundation stone of Baptist Church; aluminum tablet stamped "1905 871 AdJ")

(Sue City, 3.5 mi. E. of, sixteenth cor. between secs. 25 and 36, T. 60 N., R. 13 W., 0.2 mi. E. of Sailing Branch, 0.2 mi. S. of dwelling of Asa Blanchard; iron post stamped "1905 886 AdJ")

3. FROM SEC. 46, T. 57 N., R. 13 W., NORTH TO SUE CITY (by D. V. Vandiver in 1905)

(T. 57 N., R. 13 W., sixteenth cor. sec. 4, 12 ft. from S. end of tall hedge, 8 ft. from W. edge of rd.; iron post stamped "1905 841 AdJ")

(T. 57 N., R. 13 W., sixteenth cor. sec. 4, 12 ft. from S. end of tall hedge, 8 ft. from W. edge of rd.; iron post stamped "1905 841 AdJ")


4. FROM SUE CITY, T. 60 N., R. 14 W., SOUTH TO WABASH RAILWAY (by R. W. Mattox in 1935)

(Continued from La Plata quadrangle; see line 3.)

(T. 60 N., R. 14 W., fourteenth between secs. 17 and 20, 45 ft. S. and 40 ft. E. from U.S. Highway 65 at crossroad, in concrete post; standard tablet stamped "1935 W C A 892")

(U.S.C. & G.S. standard disk stamped "X 121 1935")

921.955
937.911
SPIRIT LEVELING IN MISSOURI

5. FROM MACON QUADRANGLE NORTH ALONG COUNTY ROUTE C INTO SHELBYVILLE QUADRANGLE (by Cornish Beck in 1936)

(Continued from Macon quadrangle; see line 9.)

T. 57 N., R. 12 W., cor. secs. 1, 5, 8, and 9, 14 ft. N. and 15 ft. W. from crossroad, on head wall of culvert; chiseled square

T. 57 N., R. 12 W., about 200 ft. W. of N. cor. secs. 4 and 5, 18 ft. S. and 90 ft. E. from junction of rd. S., in corner fence post; nail

(Continued in Shelbyville quadrangle; see line 3.)

6. FROM ATLANTA WEST 1.5 MILES INTO ELMER QUADRANGLE (by E. A. Barnes in 1936)

U.S.C. & G.S. standard disk stamped "N 121 1935"

U.S.C. & G.S. standard disk stamped "P 121 1935"

T. 59 N., R. 11 W., in SW 1/4 sec. 20, on center of SW. concrete wing wall of steel bridge over Long Branch; chiseled square

T. 59 N., R. 11 W., cor. secs. 19, 20, 29, and 30, 30 ft. N. and 27 ft. W. from T-rod. S., in root on W. side of 14-in. elm tree; copper nail and washer

(Continued in Elmer quadrangle; see line 2.)

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE AT LOVE LAKE (by R. W. Mattox in 1936)

Love Lake, 200 ft. W. of sta., in SE. corner of foundation of post office; aluminum tablet stamped "1905 915 Adj"

U.S.C. & G.S. standard disk stamped "M 121 1935"

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE AT ATLANTA (by R. W. Mattox in 1936)

Atlanta, 12 ft. S. of Atlanta State Bank, in NW. cornerstone of foundation of Attlebury brick building; aluminum tablet stamped "1905 902 Adj"

U.S.C. & G.S. standard disk stamped "P 121 1935"

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

LA PLATA QUADRANGLE

(Latitude 40°00'40"15'; longitude 92°15'92°30')

Adair, Knox, and Macon Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1900 and S. R. Archer in 1911)

Hurdland, 1.5 ml. S. and 1.5 ml. E. from, cor. secs. 17, 18, 19, and 20, T. 61 N., R. 12 W., 69 ft. N. and 522 ft. E. from crossroads, 95 ft. SE. of dwelling; iron post stamped "864 A"

T. 61 N., R. 13 W., in SW. cor. sec. 11, in corner of dooryard of Thomas Powers; iron post stamped "874 A"

895.420

874.529

Clay, about 260 ft. E. of post office, near large oak tree; iron post stamped "931 A" 931.575

Gibbs, in NW. face of Gibbs Savings Bank; aluminum tablet stamped "910 A" 910.502

Gibbs, 1.2 mi. NE. of, along Atchison, Topeka & Santa Fe Ry., in NW. cor. sec. 7, T. 61 N., R. 13 W., at NW. cor. of highway bridge 305-A over R.R., on concrete pillar foundation; chiseled square 975.20

Brashear, 1.5 mi. NW. of, in NW 1/4 sec. 30, T. 62 N., R. 13 W., at NW. cor. bridge 35-5, in top of W. end of guardrail; bolt head 823.05

La Plata, 1.1 mi. N. of, in SW 1/4 sec. 32, T. 61 N., R. 11 W., 35 ft. W. of highway, in concrete post; standard tablet stamped "790 C W A 1935" 917.519

T. 62 N., R. 11 W., in SW 1/4 sec. 29, T. 63 N., R. 11 W., on W. bank of North Fork of Salt River, in oak tree; copper nail 917.85


U.S.C. & G.S. standard disk stamped "La Plata 1934" 918.613

La Plata, 1.1 mi. N. of, in SW 1/4 sec. 32, T. 61 N., R. 11 W., 35 ft. W. of highway, in concrete post; standard tablet stamped "790 C W A 1934" 917.539

Highway in line with whistle board of Wabash Ry., 30 ft. E. of, in fence cor. corner post; chiseled square 912.01

T. 61 N., R. 11 W., in SW 1/4 sec. 29, on right-of-way line between Wabash Ry. and highway, 150 ft. E. of dwelling, in root on SW. side of stub of oak tree; copper nail and washer 926.87

Concrete culvert under highway, opposite Wabash Ry. culvert 1995, on W. head wall; chiseled square 917.89

(Continued in Kirksville quadrangle; see line 2.)

(Continued in La Plata quadrangle; see line 3.)

T. 60 N., R. 11 W., in SW 1/4 sec. 29, T. 61 N., R. 11 W., NE. of, in fence line E. of rd., in root on W. side of triple black-oak tree; copper nail and washer 938.50

T. 61 N., R. 11 W., in NW 1/4 sec. 31, on top of ridge, 100 ft. W. of dwelling, 10 ft. W. of rd., in root on E. side of twin 2-in. oak tree; copper nail and washer 938.14

Concrete culvert under highway, opposite Wabash Ry. culvert 1995, on W. head wall; chiseled square 917.89

From Downing quadrangle; see line 3.)

T. 62 N., R. 11 W., near quarter cor. between secs. 17 and 20, 500 ft. W. of State Highway 6 at rd. N. to Bullion, on N. head wall of culvert; chiseled square 908.97

Top of ridge, in root on E. side of 2-lin. elm tree; (mark not described) 956.58

T. 62 N., R. 11 W., in NW. cor. sec. 29, at T-rd. S., in root on N. side of triple black-oak tree; copper nail and washer 963.32

T. 62 N., R. 11 W., in S 1/2 sec. 29, E. of crossroads, on N. end of iron pipe culvert; (mark not described) 912.74

T. 62 N., R. 11 W., near center sec. 32, in fence line E. of rd., in root on W. side of 12-in. oak tree; nails 934.50

T. 62 N., R. 11 W., in SW 1/4 sec. 31, on top of ridge, 100 ft. W. of dwelling, 10 ft. W. of rd., in root on E. side of twin 2-in. oak tree; copper nail and washer 938.14

T. 61 N., R. 11 W., quarter cor. between secs. 5 and 6, NW. of T-rd. N., in fence line, in root on S. side of 10-in. oak tree; copper nail and washer 913.25

Concrete culvert under highway, opposite Wabash Ry. culvert 1995, on W. head wall; chiseled square 917.89

(Continued in Kirksville quadrangle; see line 1.)

T. 62 N., R. 11 W., near quarter cor. between secs. 17 and 20, 500 ft. W. of State Highway 6 at rd. N. to Bullion, on N. head wall of culvert; chiseled square 908.97

Top of ridge, in root on E. side of 2-lin. elm tree; (mark not described) 956.58

T. 62 N., R. 11 W., in NW. cor. sec. 29, at T-rd. S., in root on N. side of triple black-oak tree; copper nail and washer 963.32

T. 62 N., R. 11 W., in S 1/2 sec. 29, E. of crossroads, on N. end of iron pipe culvert; (mark not described) 912.74

T. 62 N., R. 11 W., near center sec. 32, in fence line E. of rd., in root on W. side of 12-in. oak tree; nails 934.50

T. 62 N., R. 11 W., in SW 1/4 sec. 31, on top of ridge, 100 ft. W. of dwelling, 10 ft. W. of rd., in root on E. side of twin 2-in. oak tree; copper nail and washer 938.14

Concrete culvert under highway, opposite Wabash Ry. culvert 1995, on W. head wall; chiseled square 917.89

(Continued in Kirksville quadrangle; see line 3.)


(Continued from Downing quadrangle; see line 4.)

T. 62 N., R. 11 W., in SE. corner of steel bridge; crossed nails 783.94
808 SPIRIT LEVELING IN MISSOURI

T. 62 N., R. 13 W., quarter cor. between secs. 2 and 11, 57 ft. W. and 10 ft. E. from crossroads, on S. end of E. head wall of concrete culvert; chiseled square
Hurdland, about 3 mi. N. of, in NW ¼ sec. 12, T. 62 N., R. 13 W., 75 ft. W. of dwelling of Homer Benstine, 20 ft. S. of rd., in concrete post; standard tablet
T. 62 N., R. 13 W., quarter cor. between secs. 12 and 13, 80 ft. S. and 30 ft. E. from T-rd. W., on S. side of old well curb; chiseled square
U.S.C. & G.S. standard disk stamped "Hurdland 1936".
T. 62 N., R. 13 W., approximate S. sixteenth cor. between secs. 13 and 21, 12 ft. S. and 115 ft. E. from T-rd. S., on center of S. head wall of concrete culvert; chiseled square

6. LINE TO DETERMINE ELEVATION OF HURDLAND TRIANGULATION STATION 3 MILES NORTHWEST OF HURDLAND (by G. R. Hamlin in 1936)
T. 62 N., R. 13 W., quarter cor. between secs. 2 and 11, 57 ft. N. and 10 ft. E. from crossroads, on S. end of E. head wall of concrete culvert; chiseled square

7. FROM EDINA QUADRANGLE WEST ALONG STATE HIGHWAY 11 TO SEC. 25, T. 63 N., R. 13 W. (by G. R. Hamlin in 1936)
(Continued from Edina quadrangle; see line 2.)
T. 63 N., R. 12 W., N. sixteenth cor. sec. 29, 3.5 mi. W. of Baring, 36 ft. N. and 25 ft. E. from junction of rd. E., in concrete post; standard tablet
T. 63 N., R. 12 W., near N. sixteenth cor. sec. 30, 18 ft. S. and 110 ft. E. from junction of rd. N., on S. end of iron pipe culvert; painted square
T. 63 N., Rs. 12 and 13 W., near N. sixteenth cor. between secs. 25 and 30, 110 ft. S. and 30 ft. W. from junction of rd. N., in root on W. side of 10-in. walnut tree; copper nail and washer

8. FROM EDINA QUADRANGLE WEST ALONG STATE HIGHWAY 6 TO HURDLAND (by F. Y. Brown in 1937)
(Continued from Edina quadrangle; see line 4.)
Hurdland, 2.8 mi. E. of, 100 ft. E. of highway at rd. E., 30 ft. N. of rd. E., in concrete post; standard tablet stamped "Ww25 C W A 1937".
Hurdland, 2.1 mi. E. of, 320 ft. E. of Rock Creek School, 35 ft. S. and 15 ft. E. from crossroad, on center of S. head wall of concrete culvert; chiseled square
Hurdland, about 2.1 mi. E. of, 110 ft. N. and 20 ft. E. from NE. corner of Rock Creek School, in root on W. side of 1½-in. hickory tree; copper nail and washer
Double concrete culvert, on W. end of S. head wall; chiseled square
Hurdland, 1.3 mi. E. of, 20 ft. W. and 25 ft. W. from junction of rd. S., on center of N. head wall of concrete culvert; chiseled square
Hurdland, 0.6 mi. E. of, 25 ft. S. and 12 ft. E. from junction of rd. S. to cemetery, on center of S. head wall of concrete culvert; chiseled square
Hurdland, 25 ft. N. and 25 ft. W. from junction of County Route Z, on center of E. head wall of concrete culvert; chiseled square
Hurdland, 2.4 mi. E. of, 20 ft. N. and 25 ft. W. from junction of County Route Z, on center of E. head wall of concrete culvert; chiseled square

T. 61 N., R. 12 W., In N 1/2 sec. 5, 0.5 mi. S. of crossroads, 20 ft. W. of rd., 5 ft. W. of fence line, in root on E. side of 1½-in. elm tree; copper nail and washer
T. 61 N., R. 12 W., near center sec. 8, 120 ft. N. and 95 ft. E. from crossroads, 10 ft. N. and 10 ft. W. from NW. corner of Vanhorn School, in root on S. side of 30-in. elm tree; copper nail and washer
T. 61 N., R. 12 W., S. of, in N-8 sec. line, in root on W. side of 12-in. elm tree; crossed nails

858.17
880.018
872.14
821.19
804.779
818.58
888.581
893.17
902.791
900.490
855.010
867.62
884.48
856.576
849.12
828.41
827.99
822.15
814.51
874.70
883.26
854.69
861.479
854.23
853.49
856.96
816.76
PART 6, NORTHEASTERN MISSOURI, 1896-1938

T. 61 N., R. 12 W., on line between secs. 17 and 18, 180 ft. S. of T-rd. W., on line between SE. and NW. corners of Martha Halbert, 20 ft. W. of rd., in root on E. side of 22-in. black-oak tree; crossed nails

T. 61 N., R. 12 W., on line between secs. 19 and 20, 15 ft. S. and 15 ft. E. of SE. corner of farmhouse of Martha Halbert; 70 ft. W. of rd., in root on E. side of 24-in. maple tree; crossed nails


T. 61 N., R. 12 W., cor. secs. 29, 30, and 32, 15 ft. S. and 15 ft. E. from SE. corner of farmhouse of Martha Halbert; 70 ft. W. of rd., in root on E. side of large elm tree; copper nail and washer


T. 61 N., R. 12 W., near W. sixteenth cor. between secs. 5 and 8, 25 ft. S. and 25 ft. W. from T-rd. S.; in gate to field, in root on N. side of 20-in. hedge tree; copper nail and washer


(Continued in Shelbyville quadrangle; see line 6.)
T. 61 N., R. 13 W., near W. sixteenth cor. between secs. 18 and 19, 125 ft. N. and 30 ft. W. from T-rd. S., in fence line, in root on S. side of 8-in. wild-cherry tree; copper nail and washer

T. 61 N., R. 11 W., near quarter cor. between secs. 13, 16, 19, and 21, 60 ft. S. and 40 ft. W. from T-rd. N., in root on N. side of 16-in. elm tree; copper nail and washer

T. 61 N., R. 11 W., on line between secs. 28 and 29, 1,000 ft. E. of Atchison, Topeka & Santa Fe Ry., 20 ft. S. of rd. in root on S. side of 16-in. elm tree; copper nail and washer

T. 61 N., R. 11 W., on line between secs. 22 and 23, 1,000 ft. N. of Atchison, Topeka & Santa Fe Ry., 400 ft. S. of steel bridge over Bear Creek, 50 ft. W. of rd., in root on E. side of 12-in. black-oak tree; crossed nails

T. 61 N., R. 11 W., center sec. 32, 1.7 mi. N. and 5.5 mi. E. from Kirksville, 20 ft. S. and 7 ft. W. from T-rd. N., in concrete post; standard tablet stamped "T T 130 C 1956" 922.815

T. 61 N., R. 11 W., quarter cor. between secs. 32 and 33, 550 ft. S. of rd. corner S.-W., 50 ft. S. and 20 ft. W. from State Highway 11 at curve and rd. N., on W. end of iron pipe culvert under highway; chiseled square

T. 61 N., R. 11 W., on line between secs. 17 and 20, 120 ft. NW. of NW. corner of farmhouse, in fence line 25 ft. S. of rd., in root on S. side of 16-in. elm tree; chiseled square

T. 61 N., R. 11 W., on line between secs. 22 and 27, 35 ft. S. of SW. corner of farmhouse of Martha Strubing, 50 ft. N. of rd. in root on S. side of 16-in. maple tree; crossed nails

US.C. & G.S. standard disk stamped "E 121 1955" 875.561

T. 61 N., R. 34 W., on line between secs. 22 and 27, 150 ft. N. of rd.; in root on S. side of 16-in. elm tree; crossed nails

US.C. & G.S. standard disk stamped "G 16 1955" 895.003

For additional level lines along Quincy, Omaha & Kansas City R.R., Atchison, Topeka & Santa Fe Ry., and Wabash Ry., refer to United States Coast and Geodetic Survey first-order line; Quincy, 111. to Milan, Mo.; and second-order lines; Hurdland, Mo. to Fort Madison, Iowa and Hurdland to St. Charles.
1. **ISOLATED BENCHMARKS** (not shown on diagram; by H. V. Rees in 1900)

- T. 65 N., R. 12 W., in NW 1/4 NW 1/4 sec. 9, in W. face of stone foundation of dwelling of James McWilliams; aluminum tablet stamped "665 A" in Adair, in W. face of brick foundation of Catholic parish house; aluminum tablet stamped "845 A" (reported destroyed).
- T. 64 N., R. 12 W., in NE 1/4 SW 1/4 sec. 7, in corner of yard of dwelling of William Purvis; iron post stamped "627 A" in Hazelville, in SE 1/4 sec. 35, T. 64 N., R. 13 W., at T-wd., in corner of orchard of S. E. Pike; iron post stamped "655 A" (moved in 1932; probably destroyed).
- T. 66 N., R. 12 W., 35 ft. N. and 500 ft. E. from T-wd. S., in root of elm tree; copper nail 959.96
- T. 66 N., R. 13 W., 35 ft. N. and 15 ft. W. from Junction of rd. NE., on N. end of W. concrete head wall of culvert; chiseled square 849.92
- Downing triangulation sta.; U.S.C. & G.S. standard disk stamped 851.918

2. **FROM PULASKI QUADRANGLE NEAR DOWNING SOUTHEAST ALONG STATE HIGHWAY No. 1 INTO MEMPHIS QUADRANGLE (by G. R. Hamlin in 1936)

(Continued from Pulaski quadrangle; see line 2.)

- Downing triangulation sta.; U.S.C. & G.S. standard disk stamped "Downing 1936"
- Reference mark 1; U.S.C. & G.S. standard reference disk 851.936
- Reference mark 2; U.S.C. & G.S. standard reference disk 851.936

*Accuracy doubtful because of insufficient connections.*
SPIRIT LEVELING IN MISSOURI

Memphis, 5.1 mi. W. of, 27 ft. S. and 16 ft. W. from junction of rd. S., on S. end of W. concrete head wall of culvert; chiseled square

(Continued in Memphis quadrangle; see line 2.)

3. FROM MEMPHIS QUADRANGLE AT SEC. 9, T. 63 N., R. 12 W., WEST AND SOUTH ABOUT 1 MILE (by G. R. Hamlin in 1956)

(Continued from Memphis quadrangle; see line 4.)

T. 65 N., R. 12 W., quarter cor. between secs. 4 and 5, 25 ft. S. and 55 ft. E. from crossroads, in root on W. side of 20-in. elm tree; copper nail and washer

4. FROM POINT ON STATE HIGHWAY 4, 7.5 MILES WEST OF MEMPHIS, SOUTH THROUGH BIBLE GROVE INTO LA PLATA QUADRANGLE AT SEC. 28, T. 65 N., R. 13 W. (by G. R. Hamlin in 1956)

T. 65 N., R. 13 W., near center sec. 11, 20 ft. S. and 84 ft. W. from T-rd. N., on W. end of S. concrete head wall of culvert; chiseled square

T. 65 N., R. 13 W., in W 1/2 sec. 11, on top of railing at SW. corner of steel bridge; top of S. bolt (painted)

T. 65 N., R. 13 W., in SW 1/4 sec. 11, 125 ft. E. of rd. corner E.-S., on N. end of iron pipe culvert; painted square

T. 65 N., R. 13 W., near cor. secs. 11, 15, 22, and 23, 12 ft. W. and 100 ft. W. from crossroads, on N. end of NE. wing wall of culvert; chiseled square


T. 65 N., R. 13 W., near cor. secs. 23, 24, 25, and 26, at T-rd. S., on S. end of iron pipe culvert; painted square


T. 65 N., R. 13 W., quarter cor. between secs. 35 and 36, 22 ft. S. and 144 ft. E. from T-rd. S., in root on W. side of 15-in. maple tree; copper nail and washer

T. 65 N., R. 13 W., in NW 1/4 sec. 44, 105 ft. N. and 60 ft. E. from junction of rd. NE., in root on N. side of 12-in. ash tree; copper nail and washer

T. 65 N., R. 13 W., in NW 1/4 sec. 45, 60 ft. N. (?) and 12 ft. S. (?) from junction of rd. NW., in root on N. side of 24-in. ash tree; copper nail and washer

T. 65 N., R. 13 W., in S 1/2 sec. 25, 50 ft. S. and 12 ft. E. from rd. forks, in root on N. side of 10-in. white-oak tree; copper nail and washer

T. 65 N., R. 13 W., quarter cor. between secs. 35 and 36, 20 ft. S. and 15 ft. E. from T-rd. N., in top of 6-in. hedge stump; copper nail and washer

Clark triangulation sta.; U.S.C. & G.S. standard disk stamped "Clark 1934"

Reference mark 2; U.S.C. & G.S. standard reference disk stamped "No 2 1934"

T. 65 N., R. 13 W., quarter cor. between secs. 2 and 3, 80 ft. N. and 75 ft. W. from crossroads, in root on E. side of 12-in. elm tree; copper nail and washer

T. 65 N., R. 13 W., on line between secs. 10 and 11, on W. end of angle-iron brace at SW. corner of steel bridge over North Fork of South Pablus River; painted square

T. 65 N., R. 13 W., in SE 1/4 sec. 10, 11, 14, and 15, 150 ft. N. and 20 ft. E. from crossroads, on E. side of 15-in. elm tree; copper nail and washer

T. 65 N., R. 13 W., near cor. secs. 15, 22, and 23, 58 ft. N. and 30 ft. W. from T-rd. E., on W. end of S. concrete head wall of culvert; chiseled square

T. 65 N., R. 13 W., quarter cor. between secs. 22 and 23, 275 ft. S. and 20 ft. E. from State Highway 11 at rd. N., on E. end of iron pipe culvert; painted square

(Continued in La Plata quadrangle; see line 5.)
5. FROM MEMPHIS QUADRANGLE WEST ALONG COUNTY ROUTE T TO BIBLE GROVE
(by G. R. Hamlin in 1936)

(Continued from Memphis quadrangle; see line 5.)

Bible Grove, 3 mi. E. of, 58 ft. N. and 2 ft. E. from highway at fences
N. and S., in concrete post; standard tablet stamped "T 110 0 1935"
Post 812.581

Bible Grove, about 1.4 mi. N. of, 15 ft. S. and 75 ft. W. from N.-S.
crossroad, on W. end of S. concrete head wall of culvert; chiseled
square 878.66

Bible Grove, about 0.6 mi. E. of, 90 ft. S. and 70 ft. W. from junction
of road on S. side of 12-in. elm tree; copper nail and washer 831.30

Bible Grove, in front of church opposite store building, on NE. corner of
concrete sidewalk; chiseled square 865.75

6. FROM POINT 1.5 MILES EAST OF ADAIR WEST TO SEC. 20, T. 65 N.,
R. 14 W. (by G. R. Hamlin in 1936)

Adair, 1.5 mi. E. of, along State Highway 11, on Adair-Knox county line,
45 ft. N. and 160 ft. E. from crossroad, in root on S. side of 12-in.
maple tree; copper nail and washer 896.74

Adair, 0.5 mi. E. of, 195 ft. S. and 30 ft. W. from State Highway 11 at
crossroad, in root on E. side of 12-in. elm tree; copper nail and washer
892.02

Adair, 100 ft. S. and 90 ft. E. from State Highway 11 at street S., in
front of Catholic Church, on N. side of concrete well curb; chiseled
square 897.82

Adair, 0.2 mi. N. and 0.3 mi. W. from, in NW 1/4 sec. 20, T. 65 N.,
R. 15 W., 42 ft. N. and 5 ft. E. from rd. corner W.-S., in concrete
and standard tablet stamped "T 132 C 1935" 827.331

T. 65 N., R. 15 W., cor. secs. 17, 18, 19, and 20, 195 ft. S. and 25 ft.
E. from T-rd. W., on N. end of S. concrete head wall of culvert;
chiseled square 865.30

E. from crossroads, in root on S. side of 20-in. elm tree;
copper nail and washer 930.57

T. 65 N., R. 15 W., cor. secs. 15, 19, and 24, 15 ft. S. and 15 ft. W. from T-rd. N.,
on S. end of W. concrete head wall of culvert;
chiseled square 939.41

T. 65 N., R. 15 W., cor. secs. 14 and 23, 20 ft. N. and 200 ft. W. from T-rd. S.,
in root on N. side of 20-in. elm tree;
copper nail and washer 930.20

T. 65 N., R. 15 W., cor. secs. 15, 22, and 23, 25 ft. N. and 100 ft.
W. from crossroads, in concrete post; standard tablet stamped "T T 131
C 1936" 945.351

T. 65 N., R. 15 W., on line between secs. 15 and 22, on W. end of SW.
concrete wing wall of bridge; chiseled square 966.62

T. 65 N., R. 15 W., cor. secs. 15, 16, 21, and 22, 70 ft. S. and 35 ft.
E. from crossroads, in root on N. side of 12-in. elm tree;
copper nail and washer 932.90

T. 65 N., R. 15 W., on line between secs. 17 and 20, 50 ft. NW. of NW.
corner of steel bridge over North Fork of Salt River, in root on N. side
of 10-in. elm tree; copper nail and washer 858.00

T. 65 N., R. 15 W., quarter cor. between secs. 17 and 20, 30 ft. N. and
cottonwood tree; copper nail and washer 910.48

7. FROM BIBLE GROVE WEST INTO QUEEN CITY QUADRANGLE AT SEC. 32,
T. 65 N., R. 14 W. (by W. V. Kennedy in 1937)

Bible Grove, 0.7 mi. W. of, in S 1/2 sec. 14, T. 66 N., R. 13 W., 30 ft.
W. and 60 ft. W. from T-rd. N., in root on SW. side of 12-in. black-oak
tree; copper nail and washer 741.94

Bible Grove, about 1.5 mi. W. of, on line between secs. 14 and 15,
T. 66 N., R. 13 W., on top of ridge, 15 ft. N. and 30 ft. W. from T-rd.
N., on S. end of iron pipe culvert; chiseled square 828.33

Bible Grove, 1.7 mi. W. of, in SW 1/4 sec. 15, T. 66 N., R. 13 W., 150 ft.
w. of farmhouse of Victor Ketchem, 40 ft. W. of rd., in root on SE.
side of 10-in. elm tree; copper nail and washer 895.37

Bible Grove, 2.5 mi. W. of, in E 1/2 sec. 16, T. 66 N., R. 13 W., about
0.1 mi. W. of Schuyler-Scotland county line, 50 ft. S. and 15 ft. E.
from T-rd. S., in concrete post; standard tablet stamped "T T 137 C
1936" 860.674

T. 66 N., R. 13 W., near quarter cor. between secs. 9 and 16, 180 ft. S.
and 35 ft. E. from rd. forks, on W. end of concrete walk to farmhouse
of Corbett Brun; chiseled square 875.58

T. 66 N., R. 13 W., quarter cor. between secs. 8 and 17, 50 ft. S. and
12 ft. W. from T-rd. W., in root on E. side of 12-in. white-oak tree;
copper nail and washer 886.05

T. 66 N., R. 13 W., sixteenth cor. between secs. 7 and 18, 10 ft. N. and
30 ft. W. from County Route A at rd. E., in concrete post; standard
tablet stamped "T T 136 C 1936" 890.154

T. 66 N., R. 13 W., in NE 1/4 sec. 16, 50 ft. N. and 30 ft. W. from County
Route A at rd. W., on top of concrete right-of-way post;
chiseled cross 895.12

T. 66 N., R. 13 W., cor. secs. 13 and 14, W. side of 16th cor. between secs.
13 and 18, 180 ft. S. and 25 ft. W. from E.-S. jog in rd., in root on SE.
side of 10-in. walnut tree; copper nail and washer 916.31

T. 66 N., R. 14 W., center of NW 1/4 sec. 13, 25 ft. S. and 30 ft. W.
from T-rd. N., in root on E. side of 22-in. elm tree; copper nail and
washer 882.01
SPIRIT LEVELING IN MISSOURI

811

T. 61 N., R. 14 W., center of NW 1/4 sec. 12, 14 ft. S. and 17 ft. E. from rd. fork NW, in concrete post; standard tablet stamped "T 13/4 C 1936" 390.38

W. from T-rd. E., in S 1/2 sec. 2, about 500 ft. E. of T-rd. E., 30 ft. N. and 15 ft. W. from Y-fork, in farmyard of C. L. Eiffert, in root on W. side of twin maple tree; copper nail and washer 1093.16

T. 61 N., R. 14 W., quarter cor. between secs. 2 and 3, 35 ft. S. and 35 ft. E. from crossroads, in root on N. side of 18-in. maple tree; copper nail and washer 939.02


T. 61 N., R. 14 W., quarter cor. between secs. 3 and 4, 15 ft. N. and 18 ft. E. from T-rd. N., on concrete base of concrete fence post; chiseled square 923.80


T. 65 N., R. 14 W., S. sixteenth cor. between secs. 33 and 34, 35 ft. W. and 15 ft. W. from T-rd. N., 15 ft. W. from root on SW. side of 22-in. elm tree; crossed nails 916.19

T. 65 N., R. 14 W., S. sixteenth cor. between secs. 32 and 33, 230 ft. W. of farmhouse of S. V. Eiffert, on concrete wing wall of steel bridge; chiseled square 886.86

(Continued in Queen City quadrangle; see line 11.)

8. NORTH IN SEC. 35, T. 65 N., R. 14 W. (by W. V. Kennedy in 1937)


T. 65 N., R. 14 W., quarter cor. between secs. 1 and 2, 15 ft. S. and 25 ft. N. and 15 ft. E. from T-rd. N., 2 ft. S. and 25 ft. W. from road corner, in root on SW. side of large, twin elm tree; copper nail and washer 915.01


(Continued from Queen City quadrangle; see line 9.)


T. 65 N., R. 14 W., near quarter cor. between secs. 4 and 5, 140 ft. N. and 140 ft. E. of Rd. 7, in root on N. side of large, twin elm tree; copper nail and washer 911.14


T. 65 N., R. 14 W., in NE 1/4 sec. 16, 200 ft. NW. of farmhouse, 145 ft. N. and 20 ft. W. from rd. corner N.-W., in root on NE. side of 16-in. hickory tree; copper nail and washer 934.13

T. 65 N., R. 14 W., quarter cor. between secs. 16 and 21, 270 ft. S. and 65 ft. E. of farmhouse of A. H. Bruster, in root on W. side of 16-in. black-locust tree; crossed nails 953.88


T. 65 N., R. 14 W., on line between secs. 20 and 21, 275 ft. W. and 15 ft. W. from T-rd. E., in root on S. side of 12-in. wild-cherry tree; crossed nails 953.88


T. 65 N., R. 14 W., on line between secs. 29 and 30, 0.2 mi. W. of T-rd. N., on concrete wing wall at NE. corner of bridge; chiseled square 891.54

(For balance in Queen City quadrangle, see line 10.)

T. 64 N., R. 14 W., quarter cor. between secs. 7 and 8, 235 ft. S. and 20 ft. E. from crossroads, in root on NW. side of 16-in. maple tree; copper nail and washer 975.31

T. 64 N., R. 14 W., E. sixteenth cor. sec. 8, 250 ft. S. and 65 ft. E. from T-rd. S., in root on S. side of 12-in. elm tree; copper nail and washer 964.79

T. 64 N., R. 14 W., E. sixteenth cor. between secs. 8 and 17, 25 ft. N. and 20 ft. E. from rd. corner N.-E., in fence line, in root on N. side of 16-in. maple tree; copper nail and washer 970.33

T. 64 N., R. 14 W., cor. secs. 16, 17, 20, and 21, 50 ft. N. and 25 ft. E. from crossroads on Adair-Schuyler county line, 2 ft. W. of hedge pole; standard tablet stamped "15 K 1937" 941.116

T. 64 N., R. 14 W., cor. secs. 20, 21, 28, and 29, 30 ft. N. and 35 ft. E. from County Route A at N.-S. crossroad, in root on NE. side of 16-in. maple tree; copper nail and washer 966.58
PART 6, NORTHEASTERN MISSOURI, 1896-1938

T. 61 N., R. 14 W., quarter cor. between secs. 22 and 27, 20 ft. S. and 200 ft. W. from County Route A at crossroad, on E. end of iron pipe culvert; chiseled square

T. 61 N., R. 14 W., W. sixteenth cor. between secs. 23 and 36, 20 ft. S. and 200 ft. W. from concrete post; standard tablet stamped "1 K 1936"

T. 62 N., R. 15 W., on line between secs. 32 and 33, 55 ft. N. and 150 ft. E. from T-rd. S., in root on SW. side of 30-in. locust tree; crossed nails

Sperry, 2 mi. N. of, center sec. 32, T. 63 N., R. 14 W., 10 ft. N. and 25 ft. E. from T-rd. S., in SW. corner of concrete platform of cistern; chiseled square

Sperry, 1.5 mi. N. of, quarter cor. between secs. 5 and 32, Tps. 63 and 64, 20 ft. S. and 5 ft. W. from T-rd. E., in root on SW. side of 30-in. maple tree; copper nail and washer

Sperry, 0.5 mi. N. of, quarter cor. between secs. 5 and 8, T. 63 N., R. 14 W., 60 ft. N. and 25 ft. E. from T-rd. E., in root on S. side of triple maple tree; copper nail and washer

Sperry, in schoolyard, on SW. corner of concrete platform of cistern; chiseled square


(Continued in La Plata quadrangle; see line 11.)

10. FROM SEC. 17, T. 63 N., R. 14 W., WEST AND SOUTH ABOUT 1 MILE Into QUEEN CITY QUADRANGLE (by W. V. Kennedy in 1936)

T. 63 N., R. 14 W., on line between secs. 17 and 18, 175 ft. W. of farmhouse, 20 ft. S. and 5 ft. E. from T-rd. E., in root on W. side of 18-in. elm tree; crossed nails

T. 63 N., R. 14 W., near SW. cor. sec. 17, 30 ft. NE. of T-rd. N.; iron post stamped "Prim Trav Sta No 1 1910 Mo"

(Continued in Queen City quadrangle; see line 12.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Medill to Glenwood Jet.
SPIRIT LEVELING IN MISSOURI

PULASKI QUADRANGLE

(Latitude 40°30'-40°45'; longitude 92°15'-92°30')

Schuyler and Scotland Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by P. W. McMillen in 1911)

T. 66 N., R. 11 W., in NW 1/4 sec. 27, at Pin Oak School, 600 ft. S. of 7-thd. E., 25 ft. W. of rd., in root of 75-in. elm tree; copper nail

T. 66 N., R. 11 W., in NE 1/4 sec. 26, 30 ft. S. and 85 ft. E. from 4-thd. S., 80 ft. N. of cemetery; iron post stamped "900 A"

Ft.

934.69

901.640

2. FROM MOULTON QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 4 INTO DOWNING QUADRANGLE (by G. R. Hamlin in 1936)

(Continued from Moulton quadrangle; see line 4.)

Lancaster, 2.4 mi. E. of, 15 ft. S. and 20 ft. W. from N.-S. crossroad, on E. end of W. concrete head wall of culvert; chiseled square

Lancaster, 2.9 mi. E. of, 45 ft. N. and 132 ft. W. from junction of rd. N., 10 ft. S. and 35 ft. W. from SW. corner of schoolhouse, in concrete post; standard tablet stamped "600 C.W.A. 1935"

Lancaster, 3.4 mi. E. of, 25 ft. S. and 25 ft. W. from junction of rd. S., on S. end of W. concrete head wall of culvert; chiseled square

Lancaster, 4.1 mi. E. of, 35 ft. S. and 25 ft. W. from N.-S. crossroad, on E. end of S. concrete head wall of culvert; chiseled square

Lancaster, 5 mi. E. of, 27 ft. S. and 15 ft. W. from junction of rd. S., on S. end of W. concrete head wall of culvert; chiseled square

Lancaster, 5.8 mi. E. of, 30 ft. S. and 45 ft. W. from junction of rd. W., in concrete post; standard tablet stamped "1501 C.W.A. 1935"

Downing, 3.1 mi. N. of, 35 ft. S. and 20 ft. W. from N.-S. crossroad, on S. end of W. concrete head wall of culvert; chiseled square

U.S.C. & G.S. standard disk stamped "N 86 1935"

Downing, 1.7 mi. N. of, 16 ft. N. and 45 ft. W. from E.-W. crossroad, on N. end of W. concrete head wall of culvert; chiseled square

(Continued in Downing quadrangle; see line 2.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Medill to Glenwood Jet.

*The greater part of this quadrangle lies in Iowa.*
PART 6, NORTHEASTERN MISSOURI, 1896-1938

HOLTON QUADRANGLE

(Latitude 40°30'-40°45'; longitude 92°30'-92°45')

Putnam and Schuyler Counties

1. FROM CENTERVILLE QUADRANGLE AT SEC. 21, T. 66 N., R. 17 W., EAST
ALONG ROADS TO POINT ABOUT 1.4 MILES SW. OF GLENWOOD, THEN
ALONG STATE HIGHWAY 4 TO LANCASTER (by Cornish Beck
in 1936)

(Continued from Centerville quadrangle; see line 1.)

T. 66 N., R. 16 W., 0.2 mi. N. of cor. secs. 19, 21, 25, and 30,
10 ft. W. of rd. corner N.-E., 20 ft. N. and 8 ft. E. from fence corner;
iron post stamped "Prim Trav Sta No 13 1910 Mo" 817.780

T. 66 N., R. 16 W., 500 ft. S. of quarter cor. between secs. 19 and 20,
locust tree; copper nail and washer 977.81

T. 66 N., R. 16 W., in NW 1/4 sec. 21, 27 ft. S. and 50 ft. W. from
crossroads, in root on E. side of 12-in. cedar tree; copper nail and washer 883.10

N., in S. side of telephone pole; nails 859.33

T. 66 N., R. 16 W., in NW 1/4 sec. 21, 690 ft. N. and 36 ft. S. from T-rd. W., 55 ft. W. of
Chicago, Burlington & Quincy R.R., in concrete post; standard tablet
stamped "3 C B 1936" 815.516

T. 66 N., R. 16 W., in SE 1/4 sec. 15, on SW. rivet of SW. pier of bridge
over Chariton River; chiseled cross 806.18

T. 66 N., R. 16 W., near cor. secs. 13, 14, 23, and 24, 60 ft. S. and
265 ft. E. from rd. junction, 18 ft. S. of rd., in root on N. side of
32-in. post-oak tree; nail 989.54

T. 66 N., R. 16 W., S. sixteenth cor. between secs. 14 and 15, 17 ft. N.
and 45 ft. E. from highway at fence N., on head wall of culvert;
chiseled square 905.39

T. 66 N., R. 15 W., quarter cor. between secs. 20 and 21, 9 ft. S. and
16 ft. W. from N.-S. crossroad, on head wall of culvert; chiseled square 880.24

T. 66 N., R. 15 W., on line between secs. 16 and 21, 25 ft. S. and 5 ft.
E. from junction of rd. W., on head wall of culvert; chiseled square
U.S.C. & G.S. standard disk stamped "W 85 1935"

Junction of rd. W., 60 ft. N. of, in SE. side of transmission-line pole;
nails 987.77

T. 66 N., R. 15 W., S. sixteenth cor. between secs. 14 and 15, 17 ft. N.
and 45 ft. E. from highway at fence N., on head wall of culvert;
chiseled square 923.44

Lancaster, 0.9 mi. W. of, 27 ft. N. and 21 ft. E. from junction of rd.
S., in S. side of telephone pole; spike 897.39

Lancaster, in SE. corner of courthouse yard, 51 ft. N. of highway, 51 ft.
W. of N.-S. street; iron post stamped "Prim Trav Sta No 3 1910 Mo" 967.55

*The greater part of this quadrangle lies in Iowa.
SPIRIT LEVELING IN MISSOURI

2. FROM CUNTERVILLE QUADRANGLE EAST ALONG IOWA-MISSOURI STATE LINE TO SMALL TRIANGULATION STATION AT SEC. 13, T. 67 N., R. 16 W. (by Cornish Beck in 1936)

(Continued from Cunterville quadrangle; see line 3.)

T. 67 N., R. 16 W., in SW 1/4 sec. 16, in top of NW. pile of wooden bridge over Spring Creek; copper nail and washer

T. 67 N., R. 16 W., quarter cor. between secs. 17 and 18, about 790 ft. S. of T-rd. W., on NE. wing wall of bridge; chiseled square

Coal City, Iowa, 72 ft. N. and 6 ft. E. from NE. corner of post office, in concrete post; standard tablet stamped "Prim Trav Sta No 41 Mac 1925"

Coal City, Iowa, 1 mi. NE. of, on SW. corner of carriage block at Hilltown Church; chiseled square

(Continued from Centerville quadrangle; see line 2.)

T. 67 N., R. 16 W., in SW 1/2 sec. 16, and 37 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 75 J J 1936"

T. 67 N., R. 16 W., in E 1/2 sec. 15, 0.2 mi. W. of rd. fork E., 30 ft. S. and 60 ft. E. from SE. corner of dwelling, in barnyard, in root on S. side of 22-in. maple tree; copper nail and washer

T. 67 N., R. 16 W., on line between secs. 14 and 23, 6 ft. S. and 18 ft. W. from rd. junction, on SW. wing wall of bridge; chiseled square

T. 67 N., R. 16 W., E. cor. secs. 13 and 24, 35 ft. S. and 120 ft. W. from T-rd. W., in root on NW. side of 18-in. elm tree; copper nail and washer

Coalville, 66 ft. N. of County Route B at rd. NW., in step of Holiness Church; standard tablet stamped "T T 75 J J 1936"

U.S.C. & G.S. standard disk stamped "8 83 1935"


Coalville, 2 mi. E. of, N. cor. secs. 25 and 29, T. 67 N., R. 15 W., 75 ft. N. and 5 ft. W. from rd. at N.-S. cross fence, in root on S. side of 28-in. cottonwood tree; copper nail and washer


T. 67 N., R. 15 W., N. cor. secs. 22 and 23, on Iowa-Mo. State line, 9 ft. E. of S. cor. secs. 6 and 7, 10 ft. W. from T-rd. S., in root on SE. side of 16-in. elm tree; copper nail and washer

T. 67 N., R. 15 W., N. cor. secs. 23 and 24, on Iowa-Mo. State line, 30 ft. W. of T-rd. S., in root on SW. side of 20-in. elm tree; copper nail and washer


T. 67 N., R. 16 W., N. cor. secs. 16 and 25, 31 ft. S. and 3 ft. E. from N.-S. rd., in concrete post; standard tablet stamped "T T 76 J J 1936"

T. 67 N., R. 16 W., in E 1/2 sec. 31, 55 ft. N. and 15 ft. W. from T-rd. W., in W. side of 26-in. cottonwood tree; spike

T. 67 N., R. 16 W., in SE 1/2 sec. 30, 43 ft. W. of NW. corner of school-house, in root on SE. side of 20-in. post-oak tree; copper nail and washer

T. 67 N., R. 16 W., near S. sixteenth cor. sec. 29, at intersection of tangent of T-rd. N., in concrete post; standard tablet stamped "T T 71 J J 1936"

5. FROM SEC. 19, T. 66 N., R. 16 W., NORTH TO COAL CITY, IOWA (by Cornish Beck in 1936)

T. 66 N., R. 16 W., 0.2 mi. S. of quarter cor. between secs. 7 and 18, 14 ft. N. and 30 ft. W. from NW. corner of dwelling, 30 ft. E. of N.-S. rd., 1 ft. on NW. side of 30-in. silver-maple tree; copper nail and washer


T. 66 N., R. 16 W., in SE 1/4 sec. 7, 20 ft. N. and 30 ft. E. from T-rd. W., in W. side of fence post; spike

T. 66 N., R. 16 W., near quarter cor. between secs. 7 and 8, 97 ft. N. and 17 ft. W. from NW. corner of Chapel Church, 33 ft. E. of rd., in concrete post; standard tablet stamped "T T 72 J J 1936"

T. 66 N., R. 16 W., in NE 1/4 sec. 6, on SW. wing wall of bridge over Coon Creek; chiseled square


T. 67 N., R. 16 W., in SE 1/4 sec. 30, 43 ft. W. of NW. corner of school-house, in root on SE. side of 20-in. post-oak tree; copper nail and washer

T. 67 N., R. 16 W., near S. sixteenth cor. sec. 29, at intersection of tangent of T-rd. N., in concrete post; standard tablet stamped "T T 71 J J 1936"

4. FROM LANCASTER EAST ALONG STATE HIGHWAY 4 INTO PULASKI QUADRANGLE (by G. R. Hamlin in 1936)

U.S.C. & G.S. standard disk stamped "R 86 1935"

Lancaster, 1.2 mi. E. of, on E. end of W. concrete wing wall of bridge J-690 1931; chiseled square

(Continued in Pulaski quadrangle; see line 2.)

5. FROM LANCASTER SOUTH INTO QUEEN CITY QUADRANGLE AT SEC. 30, T. 66 N., R. 16 W. (by W. V. Kennedy in 1937)

Lancaster, 1 mi. SE. of, 75 ft. NE. of bridge over branch of Fabius River, on NE. corner of concrete water trough; chiseled square
Lancaster, 1.5 ml. SE. of, near E. sixteenth cor. between secs. 19 and 30, T. 66 N., R. 14 W., 300 ft. N. and 15 ft. W. from T-rd. E., on W. end of iron pipe culvert; chiseled square
(Continued in Queen City quadrangle; see line 9.)

For additional level lines along Wabash Ry. and Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order lines; Moulton, Iowa to Kirksville, Mo. and Medill to Glenwood Jct.

QUEEN CITY QUADRANGLE
(Latitude 40°15'-40°30'; longitude 92°30'-92°45')
Adair, Putnam, and Schuyler Counties

1. ISOLATED BENCHMARKS (not shown on diagram; by P. W. McMillen in 1910-11)

T. 63 N., R. 15 W., in SE 1/4 sec. 7, about 1 ml. W. of Sperry, 700 ft. W. of wooden bridge over Salt River, at N. edge of rd., in root of 6-in. oak tree; copper nail 866.62
T. 63 N., R. 15 W., near quarter cor. between secs. 30 and 31, 100 ft. W. of small wooden bridge, 50 ft. N. of rd., in root of 21/-in. elm tree; copper nail and washer 877.90

2. FROM SEC. 14, T. 63 N., R. 15 W., NORTH THROUGH GREENTOP AND QUEEN CITY TO SEC. 30, T. 66 N., R. 14 W.
(by P. W. McMillen in 1910-11)

T. 63 N., R. 15 W., quarter cor. between secs. 11 and 12, 0.5 ml. E. of Bryant School, NW. of T-rd. N.; iron post stamped "973" 970.458
T. 63 N., R. 15 W., near S. sixteenth cor. between secs. 1 and 2, 600 ft. W. of large dwelling, at S. edge of rd. near sharp turn, in root of 8-in. tree; copper nail 891.95
Tps. 63 and 64 N., R. 15 W., quarter cor. between secs. 2 and 35, 1.5 ml. E. of Sublette, NE. of crossroads, in root of willow tree; copper nail 927.05
T. 64 N., R. 15 W., in N 1/2 sec. 35, opposite T-rd. E.; iron post stamped "973" 970.608
T. 64 N., R. 15 W., about 0.1 ml. S. of cor. secs. 26, 27, 34, and 35, 600 ft. N. of T-rd. N., at W. edge of rd., in root of 6-in. elm tree; copper nail 969.99
Greentop, 1.5 ml. N. of, along Wabash Ry., 100 ft. W. of rd. crossing, at N. edge of rd.; iron post stamped "979" 977.583
Queen City, on S. side of public square, 60 ft. W. of post office, at N. edge of Main Street; iron post stamped "1005" 1,002.951
T. 65 N., R. 15 W., near center sec. 23, 0.5 ml. SW. of Blacks School, at N. edge of private rd. E., inside of gate; iron post stamped "601" 984.564
T. 65 N., R. 15 W., near N. sixteenth cor. sec. 14, 150 ft. W. of dwelling, 40 ft. E. of rd., in root of 18-in. elm tree; copper nail 950.59
T. 65 N., R. 15 W., in NE 1/4 sec. 11, 60 ft. NW. of New Hope Church, 20 ft. E. of rd.; iron post stamped "652" 819.740
SPIRIT LEVELING IN MISSOURI


T. 66 N., R. 15 W., near S. line sec. 35, 0.9 mi. W. of Mount Zion Church, on bank of small stream, at S. edge of rd., in root of 25-in. elm tree; copper nail
Tps. 65 and 66 N., R. 15 W., on line between secs. 3 and 34, opposite T-rc. B.; iron post stamped "No 941"
T. 66 N., R. 15 W., about 0.2 mi. E. of center sec. 33, 2 mi. S. of Glenwood, opposite T-rc. W., in root of elm tree; copper nail
T. 66 N., R. 15 W., near line between secs. 32 and 33, 1 mi. N.W. of Julesburg, 75 ft. W. of Wabash Ry. at rd. crossing, in root of 25-in. elm tree; copper nail
T. 66 N., R. 15 W., in SW 1/4 SW 1/4 sec. 32, 0.7 mi. W. of Bethel Church, at N. edge of rd.; iron post stamped "No 963"
T. 66 N., Rs. 15 and 16 W., near S. sixteenth cor. between secs. 31 and 36, on E. bank of Elm Creek, 20 ft. S. of rd., in root of 25-in. maple tree; copper nail
T. 66 N., R. 16 W., near center sec. 35, at rd. junction, 75 ft. W. of dwelling; iron post stamped "No 966"
T. 66 N., R. 16 W., in NE 1/4 NE 1/4 sec. 34, 1.5 mi. E. of Grogan Bridge, at N. edge of rd., in root of 25-in. oak tree; copper nail
Livonta, 0.5 mi. SE. of, in SE. abutment of Grogan Bridge over Chariton River; bolt head
Livonta, 0.7 mi. W. of, about 200 ft. N. of E. sixteenth cor. between secs. 29 and 32, T. 66 N., R. 16 W., 110 ft. S. and 10 ft. E. from Stony Creek Rd. at rd. S.; iron post stamped "No 970"
T. 66 N., R. 16 W., near SW. cor. sec. 29, 50 ft. E. of bridge over Little Brush Creek, at N. edge of rd., in root of 10-in. maple tree; copper nail
T. 66 N., R. 16 W., in NW 1/4 sec. 31, 200 ft. W. of bridge over Big Brush Creek, 100 ft. S. of rd. forks, at W. edge of rd., in root of oak tree; copper nail

(Continued in Green City quadrangle; see line 1.)

4. FROM GREEN CITY QUADRANGLE AT SEC. 25, T. 65 N., R. 17 W., EAST TO QUEEN CITY (by F. W. McMillen in 1910-11)

T. 65 N., R. 16 W., in NE 1/4 NW 1/4 sec. 29, 1.5 mi. W. of Worthington, 0.2 mi. NW. of Freshfield School, at top of ridge, at E. edge of rd.; iron post stamped "No 797"
Worthington, 0.5 mi. W. of, near W. sixteenth cor. sec. 26, T. 65 N., R. 16 W., at S. edge of rd., on boulder; chiseled mark
Worthington, 0.6 mi. NE. of, in SW 1/4 SW 1/4 sec. 22, T. 65 N., R. 16 W., 100 ft. W. of Slate Ford across Chariton River, at S. edge of rd.; iron post stamped "No 797"
T. 66 N., R. 16 W., near SW. cor. sec. 29, 50 ft. E. of bridge over Little Brush Creek, at N. edge of rd., in root of 10-in. maple tree; copper nail
T. 65 N., R. 16 W., in NW 1/4 sec. 22, in SW. corner of iron bridge over Elm Creek; bolt head
T. 65 N., R. 16 W., in NE 1/4 NE 1/4 sec. 23, 1 mi. W. of Satterfield School, at top of ridge at rd. forks, at N. edge of rd., in root of 12-in. oak tree; copper nail
T. 65 N., R. 16 W., near cor. secs. 23, 24, 25, and 26, 200 ft. W. of Satterfield School, at W. edge of rd., in root of 25-in. oak tree; copper nail
T. 65 N., R. 16 W., near cor. secs. 23, 24, 25, and 26, 200 ft. W. of Satterfield School, at N. edge of rd., in root of 25-in. oak tree; copper nail
T. 65 N., R. 15 W., in NW 1/4 SW 1/4 sec. 30, 1.2 mi. W. of Patterson School, at S. edge of rd., in root of 25-in. iron post stamped "No 975"
T. 65 N., R. 15 W., in NE 1/4 SE 1/4 sec. 30, 300 ft. W. of Patterson School, 50 ft. S. of rd. in root of 10-in. hickory tree; copper nail

(Continued in Green City quadrangle; see line 1.)

5. FROM QUEEN CITY QUADRANGLE AT SEC. 24, T. 64 N., R. 17 W., EAST TO SEC. 11, T. 65 N., R. 15 W. (by F. W. McMillen in 1910-11)

(Continued from Green City quadrangle; see line 1.)

T. 64 N., R. 16 W., about 0.3 mi. E. of quarter cor. between secs. 19 and 30, about 1 mi. NW. of Green Grove School, at turn in rd. at top of hill, 200 ft. S. of SW. log dwelling, at S. edge of rd., on boulder; chiseled mark
T. 64 N., R. 16 W., in SW 1/4 SW 1/4 sec. 29, 200 ft. S. of Green Grove School, at W. edge of rd., in root of oak tree; copper nail
T. 63 N., R. 16 W., near center sec. 5, 700 ft. E. of iron bridge over Shuteye Creek, NW. of T-rc. N., in root of 25-in. maple tree; copper nail
Connelsville, about 0.2 mi. N. of old Iowa and St. Louis R.R. sta. (Continued from 1864), 600 ft. N. of iron bridge over Shuteye Creek, 200 ft. W. of track, at E. edge of rd.; iron post stamped "No 768"
Connelsville, 0.8 mi. S. of, in NW. abutment of iron bridge over Chariton River; bolt head
Connelsville, about 1 mi. E. of, in NW 1/4 sec. 10, T. 65 N., R. 16 W., at top of ridge, 100 ft. E. of dwelling, at S. edge of rd., in root of 15-in. hickory trees; copper nail
Fegley, 0.6 mi. W. of, in SW 1/4 sec. 2, T. 65 N., R. 16 W., 300 ft. E. of T-rc. N., 50 ft. E. of rd., in root of 12-in. oak tree; copper nail
Fegley, near cor. secs. 1, 2, 11, and 12, T. 65 N., R. 16 W., about 700 ft. W. of track, at E. edge of rd.; iron post stamped "No 768"
Fegley, about 1 mi. E. of, in SE 1/4 SE 1/4 sec. 11, T. 65 N., R. 16 W., about 100 ft. N. of dwelling of W. Miller, at E. edge of rd., in root of 10-in. oak tree; copper nail

936.76
6. FROM GREEN CITY QUADRANGLE AT SEC. 1, T. 65 N., R. 17 W. (By P. W. McMillen in 1910-11)

T. 65 N., R. 15 W., near N. sixteenth cor. sec. 1, in fence line E. of rd., in root on S. side of tree; nail and washer

T. 65 N., R. 15 W., near N. quarter cor. sec. 1, in S. fence line, in root on N. side of tree; nail and washer

Tps. 65 and 66 N., R. 15 W., on line between secs. 3 and 32, opposite T-rd. S.; iron post stamped "Mo 932" 941.35

Reference mark, about 310 ft. W. of post, N. of old rd.; nail and washer

8. FROM MOUNTON QUADRANGLE AT SEC. 30, T. 66 N., R. 16 W., SOUTH TO STATE HIGHWAY 4 (By Cornish Beck in 1936)

T. 66 N., R. 16 W., near E. sixteenth cor. sec. 30, 70 ft. N. and 19 ft. W. from T-rd. E., in root on E. side of 26-in. white-oak tree; copper nail and washer

T. 66 N., R. 16 W., in NE 1/4 sec. 31, 18 ft. N. and 15 ft. E. from State Highway 4 at rd. N., on head wall of culvert; chiseled square


(Continued from Moulton quadrangle; see line 5.)


(Continued in Downing quadrangle; see line 9.)

10. FROM DOWNING QUADRANGLE AT SEC. 30, T. 65 N., R. 15 W., SOUTH INTO DOWNING QUADRANGLE AT SEC. 7, T. 64 N., R. 14 W. (By W. V. Kennedy in 1937)

(Continued from Downing quadrangle; see line 9.)

T. 65 N., R. 15 W., in NE 1/4 sec. 25, 30, 31, and 36, SW. of crossroads, on center of head wall of concrete culvert; chiseled square

T. 64 N., R. 14 W., in SE 1/4 sec. 30, 31, and 36, 65 ft. SE. of farmhouse of Walter Ayres, 35 ft. N. and 210 ft. E. from T-rd. E., in root on W. side of 18-in. walnut tree; copper nail and washer

T. 64 N., R. 14 W., N. cor. secs. 1 and 6, 15 ft. S. of T-rd. N.; iron post stamped "Prim Trav Sta No 2 1910 Mo" 978.123
SPIRIT LEVELING IN MISSOURI

Meyer triangulation sta.; U.S.C. & G.S. standard disk stamped "Meyer 1934"
Reference mark 1; U.S.C. & G.S. standard reference disk stamped "Meyer No 1 1934"
Reference mark 2; U.S.C. & G.S. standard reference disk stamped "Meyer No 2 1934"

Asimuth mark; U.S.C. & G.S. standard disk stamped "Meyer Azi 1934"
T. 61 N., R. 11 W., near W. sixteenth cor. between secs. 6 and 7, 200 ft. N. and 18 ft. E. from T-rd. E., in root on S. side of 12-in. elm tree; copper nail and washer

(Continued in Downing quadrangle; see line 9.)

11. FROM DOWNING QUADRANGLE AT SEC. 32, T. 65 N., R. 14 W.
(by W. V. Kennedy in 1937)
(Continued from Downing quadrangle; see line 7.)
T. 65 N., R. 14 W., about 700 ft. W. of S. sixteenth cor. between secs. 31 and 32, 90 ft. N. of farmhouse of Stanley Roof, 30 ft. S. of rd., in root on N. side of twin maple tree; copper nail and washer

12. FROM DOWNING QUADRANGLE AT SEC. 18, T. 63 N., R. 14 W., WEST TO SEC. 22, T. 63 N., R. 15 W. (unchecked single-run spur line by W. V. Kennedy in 1938)
(Continued from Downing quadrangle; see line 10.)
T. 63 N., Rs. 14 and 15 W., cor. secs. 13, 18, 19, and 22, 15 ft. S. and 20 ft. W. from T-rd. S., on S. end of iron pipe culvert; chiseled square
T. 63 N., R. 15 W., in NW 1/4 sec. 24, 70 ft. N. and 10 ft. W. from T-rd. S., on SE. corner of bottom concrete step to Oak Grove Church; chiseled square
T. 63 N., R. 15 W., quarter cor. between secs. 22 and 23, 365 ft. N. and 15 ft. E. from crossroads, in root on NW. side of 18-in. walnut tree; copper nail and washer

tie between united states coast and geodetic survey second-order line and united states geological survey third-order line in queen city (by R. W. Mattox in 1935)
Queen City, on S. side of public square, 50 ft. N. of post office, at N. edge of Main Street; iron post stamped "1005"

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey second-order line, Moulton, Iowa to Kirksville, Mo.
1. FROM NOVINGER WEST ALONG STATE HIGHWAY 6 ABOUT 1.1 MILES, THENCE SOUTH ALONG ROADS TO SEC. 32, T. 62 N., R. 16 W., THENCE EAST ALONG STATE HIGHWAY 11 TO JUNCTION OF U.S. HIGHWAY 65, THENCE NORTH ALONG U.S. HIGHWAY 65 TO JUNCTION OF STATE HIGHWAY 6, THENCE EAST ALONG STATE HIGHWAY 6 INTO LA PLATA QUADRANGLE.

Feet

U.S.C. & G.S. standard disk stamped "S 16 1933" 769.81
Novinger, about 0.6 mi. W. of, in SW 1/4 sec. 29, T. 65 N., R. 16 W., N. of Highway, in root on S. side of 16-in. oak tree; copper nail and washer 769.88
Novinger, about 0.8 ml. W. of, In SW lA sec. 29, T. 63 N., R. 16 W., N. of highway, In root on S. side of 18-in. oak tree; copper nail and washer 799.78
Culvert, on top of N. head wall; chiseled square 884.71
Novinger, about 1.1 ml. W. of, quarter cor. between secs. 30 and 31, T. 63 N., R. 16 W., S. of crossroad, on E. head wall of side culvert; chiseled square 920.12
T. 65 N., R. 16 W., in SW 1/4 sec. 31, 150 ft. S. of T-rod. W., in root on E. side of 16-in. oak tree; copper nail and washer 949.01
T. 65 N., R. 16 W., in SW 1/4 sec. 31, 75 ft. NW. of T-rod. W., in root on SE. side of 16-in. oak tree; copper nail and washer 918.82
T. 65 N., R. 17 W., in NE 1/4 sec. 1, 50 ft. W. of angle in rd., In root on S. side of 30-in. oak tree; copper nail and washer 934.50
T. 62 N., R. 17 W., in NE 1/4 sec. 1, along rd. near Silly Creek, in root on E. side of 24-in. elm tree; copper nail and washer 804.94

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

T. 62 N., R. 16 W., in SW 1/4 sec. 19, 120 ft. NE. of dwelling, in root on N. side of 14-in. maple tree; copper nail and washer 935.43
T. 62 N., R. 16 W., in SW 1/4 sec. 19, 20 ft. S. of fence line, in root on N. side of 16-in. oak tree; copper nail and washer 893.81
T. 62 N., R. 16 W., near S. sixteenth cor. sec. 19, on top of ridge, 20 ft. S. of fence line, in root on N. side of 24-in. oak tree; copper nail and washer 923.67
T. 62 N., R. 16 W., in SE 1/4 sec. 30, near crossroads, in root on SW. side of 16-in. maple tree; copper nail and washer 869.16
T. 62 N., R. 16 W., in SW 1/4 sec. 30, near T-rod. W., in root on SE. side of 20-in. oak tree; copper nail and washer 866.08
T. 62 N., R. 16 W., in NE 1/4 sec. 31, 50 ft. SW. of greenhouse, 50 ft. N. of rd., on E. edge of driveway, in root on W. side of 30-in. maple tree; copper nail and washer 858.59
T. 62 N., R. 16 W., in NW 1/4 sec. 32, 100 ft. N. of dwelling in angle of rd., 15 ft. E. of E. fence, in root on W. side of 14-in. hickory tree; copper nail and washer 836.16
Tps. 61 and 62 N., R. 16 W., quarter cor. between secs. 5 and 32, 50 ft. N. and 30 ft. E. from crossroad, in concrete post; standard tablet stamped "795 O W A 1935" 756.177
T. 61 N., R. 16 W., in NW 1/4 sec. 4, 200 ft. W. of highway maintenance depot, in fence N. of rd., in root on S. side of 30-in. elm tree; copper nail and washer 774.36
Bridge over Chariton River; surface of floor 774.9
T. 61 N., R. 16 W., in NE 1/4 sec. 4, E. of bridge over Chariton River, on top of S. pile in E. retaining wall of overflow bridge; copper nail and washer 754.14
Bridge K-298 1933, on top of N. pile in E. retaining wall; copper nail and washer 762.26
Millard, in front of Wabash Ry. sta., at base of signboard; surface of ground

Feet


Tps. 61 and 62 N., R. 15 W., on line between secs. 3 and 31, 150 ft. S. of junction of rd. N., near point where Wabash Ry. and highway separate, on top of W. head wall of culvert; chiseled square Stucco dwelling, 150 ft. S. of, N. of highway, on W. head wall of culvert; chiseled square

T. 62 N., R. 15 W., in SW 1/4 sec. 27, N. of crossroad, on W. head wall of culvert; chiseled square


(Continued from La Plata quadrangle; see line 4.)

Bear Creek; surface of water at 2:30 p.m. Dec. 31, 1935

T. 60 N., R. 17 W., 300 ft. E. of T-rd. S., 300 ft. W. of dwelling, 8 ft. N. of fence, in root on S. side of 10-in. walnut tree; nails

T. 61 N., R. 14 W., in SW 1/4 sec. 6, in farmyard E. of rd., in root on N. side of 12-in. box-elder tree; copper nail and washer

T. 61 N., R. 14 W., on line between secs. 6 and 7, at T-rd. S., in N. of W. head wall of culvert; copper nail and washer

T. 61 N., R. 14 W., in SW 1/4 sec. 7, near top of ridge, 600 ft. N. of school, in farmyard, in root on W. side of 30-in. maple tree; copper nail and washer

T. 61 N., R. 14 W., in SW 1/4 sec. 7, NE. of T-rd. E., E. of rd., at base of telephone pole; surface of ground

4. FROM WINIGAN QUADRANGLE AT SEC. 12, T. 60 N., R. 17 W., EAST BY WAY OF SOUTH GIFFORD INTO ELMER QUADRANGLE AT SEC. 15, T. 60 N., R. 15 W. (by B. A. Barnes in 1936)

(Continued from Winigan quadrangle; see line 2.)

T. 60 N., R. 17 W., on line between secs. 12 and 13, 131 ft. N. and 56 ft. E. of crossroads, in root on S. side of 36-in. elm tree; copper nail and washer

T. 60 N., R. 16 W., in N 1/2 sec. 18, 189 ft. N. and 120 ft. E. from rd. corner N.-E., in root on S. side of 30-in. elm tree; copper nail and washer

T. 60 N., R. 16 W., in SW 1/4 sec. 6, 150 ft. N. and 1/2 ft. W. from rd. junctions E. and SW., 3 ft. S. and 7 ft. W. from NW. corner of Star School, on SW. corner of concrete well block; chiseled square

South Gifford, 1.5 mi. W. of, near center sec. 8, T. 60 N., R. 16 W., 115 ft. N. and 90 ft. W. from T-rd. E., on concrete base of S. steel frame member of airplane beacon; chiseled square

South Gifford, 0.7 mi. W. of, quarter cor. between secs. 8 and 9, T. 60 N., R. 16 W., 35 ft. N. and 150 ft. W. from junction of lane N., 280 ft. W. of rd. at N.-S. fence, in root on S. side of 28-in. maple tree; copper nail and washer

South Gifford, on front step to door of Gifford Savings Bank; chiseled square

T. 60 N., R. 16 W., in SW 1/4 sec. 11, 55 ft. N. of County Route D at rd. S., in root on SE. side of 18-in. black-oak tree; copper nail and washer

Junction of rd. S.; surface of highway

T. 60 N., R. 16 W., 500 ft. S. of W. sixteenth cor. sec. 11 and 12, 30 ft. N. and 4 ft. W. from County Route D at rd. S., 30 ft. S. and 3 ft. W. from rd. corner S.-E., in root on N. side of 16-in. black-oak tree; standard tablet stamped "15k2 ERA 1935"

T. 60 N., R. 16 W., in S 1/2 sec. 12, 18 ft. S. and 180 ft. W. from County Route D at rd. S., on center of S. head wall of concrete culvert; chiseled square


T. 60 N., R. 15 W., S. sixteenth cor. sec. 18, 20 ft. N. and 200 ft. W. from T-rd. W., in root on E. side of 16-in. white-oak tree; copper nail and washer

(Continued in Elmer quadrangle; see line 3.)
5. FROM WINIGAH QUADRANGLE ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD EAST ABOUT 1 MILE (by H. B. Fyle and F. Y. Brown in 1937)

(Continued from Winigan quadrangle; see line 5.)

T. 63 N., R. 17 W., in SE 1/4 sec. 28, 275 ft. W. of Quincy, Omaha & Kansas City R.R. at rd. crossing, 100 ft. N. of rd., in SE 1/4 sec. 21, 100 ft. E. of rd., on top at center of N. head wall of concrete bridge; chiseled square 777.01

U.S.G.S. & G.S. standard disk stamped "U 16 1933"

6. FROM SEC. 5, T. 61 N., R. 16 W., SOUTHWEST INTO WINIGAH QUADRANGLE AT SEC. 13, T. 60 N., R. 17 W.

(by J. J. Crane in 1937)

T. 61 N., Rs. 16 and 17 W., on line between secs. 1 and 6, 20 ft. S. and 15 ft. W. from State Highway 11 at N.-S. crossroad, on W. end of head wall of concrete culvert; chiseled square 950.12

State Highway 11, O.H. M. st. of, 150 ft. N. and 35 ft. W. from T-rd. N., in root on W. side of twin 16-in. white-oak tree; crossed nails 955.94


T. 61 N., R. 16 W., near E. sixteenth cor. sec. 18, 40 ft. S. of T-rd. N., in concrete post; standard tablet stamped "1934, E N A"

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

7. FROM SEC. 5, T. 61 N., R. 16 W., WEST INTO WINIGAH QUADRANGLE AT SEC. 13, T. 60 N., R. 17 W. (by J. J. Crane in 1937)

T. 60 N., R. 17 W., in sec. 1, 500 ft. S. and 60 ft. E. from T-rd. S., in root on S. side of 15-in. white-oak tree; copper nail and washer 916.04

T. 60 N., R. 17 W., in N 1/2 sec. 12, 60 ft. S. and 20 ft. E. from T-rd. S., in root on S. side of 34-in. white-oak tree; crossed nails 899.09

T. 60 N., R. 17 W., in SW 1/4 sec. 12, 100 ft. S. and 45 ft. W. from T-rd. S., in crotch of twin oak tree; copper nail and washer 845.52

T. 60 N., R. 17 W., on line between secs. 12 and 13, 125 ft. W. and 50 ft. E. from crossroads, in root on S. side of 30-in. elm tree; copper nail and washer 779.48

(Continued in Winigan quadrangle; see line 9.)

For additional level lines along Quincy, Omaha & Kansas City R.R. and Wabash Ry., refer to United States Coast and Geodetic Survey first-order line, Quincy, Ill. to Milan, Mo.; and second-order line, Moulton, Iowa to Kirksville, Mo.
PART 6, NORTHEASTERN MISSOURI, 1896-1938

ELMER QUADRANGLE

(Latitude 39°15'-46°00'; longitude 92°30'-92°52')

Macon County

1. FROM BUCKLIN QUADRANGLE EAST AND SOUTHEAST ALONG CHICAGO,
PURLINGTON & QUINCY RAILROAD BY WAY OF CALLAO INTO
COLLEGE MOUND QUADRANGLE (by S. F. Archer in 1920)

(Continued from Bucklin quadrangle; see line 1.)

T. 57 N., R. 16 W., in NW 1/4 sec. 6, at E. end of cut, 35 ft. W. of fence, in small drain, in root (1/4 in. underground) on S. side of 24-in. cottonwood tree; spike

T. 57 N., R. 16 W., on line between secs. 5 and 6, in fence line W. of track, in root on S. side of 22-in. cottonwood tree; copper nail and washer

T. 57 N., R. 16 W., in W 1/2 sec. 5, on top of N. end of parapet wall of E. abutment of concrete bridge 91.02; chiseled square

T. 57 N., R. 16 W., near quarter cor. between secs. 4 and 5, on top of N. end of parapet wall of E. abutment of bridge 89.49 over Chariton River; chiseled square (elev. determined by U.S.C. & G.S.)

T. 57 N., R. 16 W., in SW 1/4 sec. 4, 50 ft. SW. of Methodist Church, 160 ft. N. of rd. crossing, E. of rd.; iron post stamped "Prim Trav Sta No. 71 F 1920 Mo 692"

T. 57 N., R. 16 W., in SE 1/4 sec. 1, 50 ft. SW. of tooth of dog 91.03; over Chariton River; chiseled square

T. 57 N., R. 16 W., near W. sixteenth cor. sec. 11, at overhead bridge, S. of track, at E. end of first bent, in top of E. end of 12- by 12-in. timber set on top of piling; spike

T. 57 N., R. 16 W., in E 1/2 sec. 12, on top of E. end of S. heading of bridge 79.12 over Stinking Creek; chiseled square

T. 57 N., R. 16 W., in NE 1/4 sec. 25, on top of bolt on SW. pier of bridge over East Fork of Chariton River; chiseled square (elev. determined by U.S.C. & G.S.)

(Continued in College Mound quadrangle; see line 1.)

T. 57 N., R. 15 W., in SW 1/4 sec. 17, on top of S. concrete pier at E. end of bridge 77.37 over Middle Fork of Chariton River; chiseled square

Foot

769.38
696.64
695.59
703.125
691.511
691.99
749.214
770.02
812.50
784.93
818.03
761.03
744.808

2. FROM ATLANTA QUADRANGLE AT SEC. 19, T. 59 N., R. 14 W., WEST
BY WAY OF BARRIESVILLE TO ETHEL, THEN NORTH INTO BUCKLIN
QUADRANGLE AT SEC. 1, T. 59 N., R. 17 W.

(by D. A. Barnes in 1936)

(Continued from Atlanta quadrangle; see line 6.)


T. 59 N., R. 14 W., in NW 1/4 sec. 30, 36 ft. N. and 162 ft. W. from T-rd. S., in root on SW. side of 16-in. white-oak tree; copper nail and washer

T. 59 N., R. 15 W., in NE 1/4 sec. 25, on top of bolt on SW. pier of bridge over East Fork of Chariton River; chiseled cross

T. 59 N., R. 15 W., in NE 1/4 sec. 29, 24 ft. N. and 90 ft. E. from crossroads, in root on E. side of 20-in. black-oak tree; copper nail and washer

897.03
902.84
815.54
822.17
T. 59 N., R. 15 W., NE 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of SW 1/4 of NE 1/4 of sec. 13, T. 60 N., R. 15 W., and NE 1/4 of SE 1/4 of SW 1/4 of NE 1/4 of sec. 16, T. 60 N., R. 15 W., as survey by W. I. Tefft in 1926.

3. Prom Kirksville Quadrangle at sec. 15, T. 60 N., R. 15 W., southeasterly into Atlanta Quadrangle at sec. 19, T. 60 N., R. 15 W. (by B. A. Barnes in 1936)

Crossroads, 31 ft. N. and 115 ft. W. from Sw. corner of farm house, in root on W. side of triple 8-in. black-oak tree; copper nail and washer

917.09

(Continued in Bucklin quadrangle; see line 2.)

T. 59 N., R. 15 W., line between secs. 1 and 6, 60 ft. N. of rd. corner S.E.-W., 9 ft. E. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No. 67 F 1926." 884.693

Top of ridge, 1 ft. N. and 24 ft. W. from private rd. NW., in base of corner fence post; spike

869.26

T. 59 N., R. 15 W., on line between secs. 13 and 18, on SE. corner wing wall of bridge; chiseled square

777.05

T. 59 N., R. 15 W., NE 1/4 sec. 18, 9 ft. S. and 60 ft. E. from NE. corner of farmhouse of Kenneth Roger, 5 ft. W. of rd., in root on W. side of 8-in. walnut tree; copper nail and washer

865.11

Ethel, 2 mi. N. of W. corner sec. 7. T. 59 N., R. 16 W., 30 ft. N. and 1 ft. E. from abandoned Thrd. E., 9 ft. N. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No. 60 Fresh Stream." 830.317

T. 59 N., R. 16 W., line between secs. 7 and 12, 260 ft. S. and 20 ft. W. from Thrd. W., in root on E. side of 30-in. elm tree; crossed nails

820.82

T. 59 N., R. 16 W., on line between secs. 1 and 6, 60 ft. N. of rd. corner S.E.-W., 9 ft. E. of fence corner, in concrete post; copper nail and washer

933.93

T. 59 N., R. 16 W., in NE 1/4 sec. 6, 34 ft. N. and 115 ft. W. from Thrd. E. to Elmer, 36 ft. S. and 61 ft. W. from SW. corner of farmhouse, in root on W. side of triple 8-in. black-oak tree; copper nail and washer

917.09

(Continued in Bucklin quadrangle; see line 4.)

Crossroads, 34 ft. N. and 135 ft. E. from, in root on NE. side of 12-in. white-oak tree; crossed nails

888.18

T. 60 N., R. 15 W., quarter cor. between secs. 22 and 23, 21 ft. S. and 279 ft. E. from Thrd. N., 10 ft. E. of small wooden culvert, in root of 8-in. white-oak tree; copper nail and washer

885.55


T. 59 N., R. 15 W., in NE 1/4 sec. 27, 205 ft. S. and 100 ft. E. from rd. forks, on NE. corner of concrete step to school; chiseled square

905.94

T. 59 N., R. 15 W., on line between secs. 22 and 27, 78 ft. N. and 40 ft. W. from Thrd. N., in root on NE. side of 14-in. black-oak tree; crossed nails

890.44

T. 59 N., R. 15 W., line between secs. 21 and 26, 260 ft. W. of Thrd. N., on end of E. concrete pier of small bridge over branch; chiseled square

818.58

T. 59 N., R. 15 W., s. cor. secs. 31 and 32, 12 ft. N. and 110 ft. W. from Thrd. S., on rd. corner E.N.W., on center of NE. head wall of concrete culvert; chiseled square

835.46

T. 59 N., R. 15 W., quarter cor. between secs. 31 and 32, 18 ft. N. and 35 ft. W. from crossroads, in root on N. side of 10-in. elm tree; copper nail and washer

892.92

T. 59 N., R. 15 W., line between secs. 21 and 26, 102 ft. S. of farmhouse of J. H. Endee, 30 ft. S. of rd. at white-oak tree; copper nail and washer 839.11

T. 59 N., R. 15 W., in NW 1/4 sec. 26, 310 ft. W. of Thrd. S., on outside rivet head of end brace at NW. corner of steel bridge overick Branch; chiseled cross

895.637
PART 6, NORTHEASTERN MISSOURI, 1896-1958

T. 60 N., R. 15 W., W. sixteenth cor. sec. 24, 21 ft. N. and 250 ft. W. from T-rd. N., 4 ft. S. and 9 ft. W. from fence corner, in root on W. side of 10-in. elm tree; copper nail and washer
Junction of private rd. N., at base of telephone pole; surface of ground T. 60 N., R. 15 W., near center sec. 19, 11 ft. S. and 18 ft. W. from T-rd. N., in root on NW. side of 2½-in. black-oak tree; copper nail and washer

4. FROM ETHEL SOUTH INTO BUCKLIN QUADRANGLE AT SEC. 25, T. 58 N., R. 17 W. (by B. A. Barnes in 1936)

T. 59 N., Rs. 16 and 17 W., on line between secs. 31 and 36, in valley, 16 ft. E. of rd., in root on SW. side of 10-in. elm tree; crossed nails
T. 59 N., Rs. 16 and 17 W., quarter cor. between secs. 31 and 36, 230 ft. S. and 18 ft. W. from T-rd. E., in root on E. side of 14-in. white-oak tree; copper nail and washer
Top of hill, 70 ft. E. of rd., in SW. side of 10-in. maple tree; crossed nails
T. 58 N., Rs. 16 and 17 W., S. sixteenth cor. between secs. 1 and 6, on ridge, 60 ft. N. of rd. W., 10 ft. E. of rd., in root on W. side of 10-in. white-oak tree; copper nail and washer
T. 58 N., Rs. 16 and 17 W., quarter cor. between secs. 7 and 12, 70 ft. N. and 18 ft. W. from T-rd. E., in root on NW. side of 8-in. black-oak tree; copper nail and washer
T. 58 N., R. 17 W., E. cor. secs. 12 and 13, 15 ft. S. and 15 ft. W. from rd. corner N.-W., 1 ft. S. and 1 ft. W. from W. gatepost at rd. to field, in concrete post; standard tablet stamped "Prim Trav Sta No 68 P 1921; 770" 770.151

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

T. 58 N., R. 17 W., near E. sixteenth cor. between secs. 24 and 25, 33 ft. E. of E. face of farmhouse of C. C. Norfolk, 21 ft. W. of rd., in root on SW. side of 10-in. elm tree; copper nail and washer
T. 58 N., R. 17 W., in SE 1/4 sec. 25, 35 ft. S. and 10 ft. E. from rd. forks SW., NE., and SE., 15 ft. S. and ½ ft. E. from gatepost, in concrete post; standard tablet stamped "Prim Trav Sta No 69 F 1924; 880" 879.268

(Continued in Bucklin quadrangle; see line 3.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Lacede to Macon.
SPIRIT LEVELING IN MISSOURI

COLLEGE MOUND QUADRANGLE
(Latitude 39°30',-39°45'; longitude 92°30',-92°45')
Chariton, Macon, and Randolph Counties

1. FROM ELMER QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO MACON QUADRANGLE (by S. R. Archer in 1920)
(Continued from Elmer quadrangle; see line 1.)

T. 57 N., R. 15 W., in W 1/2 sec. 16, at bridge 76.65 over creek, on top of B, S. side of B, S. concrete abutment; chiseled square
Bevier, 1 ft. W. of sta., 70 ft. N. of main track; iron post stamped
"Prim Trav Sta No 72 F 1920 Mo 775"
Bevier, 300 ft. E. of milepost 75, at N. right-of-way fence, in root on S. side of elm tree; copper nail and washer
T. 57 N., R. 15 W., about 0.1 mi. S. of quarter cor. between secs. 13 and 14, on S. side of track opposite rd. corner S. of track, 30 ft. N. of right-of-way fence, in N.-S. fence line, in root (1 in. underground) on S. side of S. one of two small oak trees; copper nail and washer
T. 57 N., R. 15 W., in SW 1/4 sec. 18, at W. abutment of bridge 72.66 over East Fork of Charlton River, 10 ft. below track, at top of NE. corner of N. end of bridge seat, in E. end of W. concrete approach; standard tablet stamped "1920 Mo 775"

(Continued in Macon quadrangle; see line 5.)

2. FROM MACON QUADRANGLE AT SEC. 20, T. 56 N., R. 14 W., WEST INTO MARCELINE QUADRANGLE AT SEC. 9, T. 56 N., R. 15 W.
(by J. J. Crane in 1937)
(Continued from Macon quadrangle; see line 10.)

Excello, 1.6 mi. W. of, cor. secs. 19, 20, 29, and 30, T. 56 N., R. 14 W., 30 ft. N. and 25 ft. E. from crossroads, in fence corner, on limestone outcrop; chiseled square
Excello, 3 mi. W. of, on line between secs. 24 and 25, T. 56 N., R. 15 W., at bridge over East Fork of Charlton River, on rivet at E. end of S. banister; chiseled cross
T. 58 N., R. 15 W., on line between secs. 24 and 25, 80 ft. N. and 50 ft. E. from crossroads, in concrete post; standard tablet stamped "T.T. 7 W 1936"
T. 56 N., R. 15 W., in S 1/2 sec. 26, 115 ft. S. and 30 ft. E. from crossroads, 6 ft. S. of corner of yard fence, in root on W. side of 10-in. cedar tree; copper nail and washer
T. 56 N., R. 15 W., on line between secs. 26 and 35, 15 ft. S. and 40 ft. W. from T-rd. S., on S. end of iron pipe culvert; painted square
College Mound, 57 ft. N. and 36 ft. W. from NW. corner of tile schoolhouse, W. 1/2 ft. S. from T-rd. W., in concrete post; standard tablet stamped "T.T. 8 W 1936"
College Mound, 1.1 mi. W. of, W. sixteenth cor. between secs. 28 and 33, 30 ft. S. and 20 ft. E. from crossroads, in fence corner, in top of 10-in. stump; copper nail and washer
College Mound, 1.6 mi. W. of, 80 ft. S. and 200 ft. W. from T-rd. N., in root on NE. side of 22-in. maple tree; crossed nails
College Mound, 2.6 mi. W. of, 30 ft. S. and 500 ft. W. from T-rd. S., in root on N. side of 10-in. maple tree; copper nail and washer
T. 56 N., R. 15 and 16 W., cor. secs. 27, 30, 31, and 36, 26 ft. N. and 4 ft. W. from crossroads, in concrete post; standard tablet stamped "T.T. 9 W 1936"
T. 56 N., R. 16 W., on line between secs. 26 and 35, 80 ft. S. and 50 ft. W. from State Highway 3 at E.-W. crossroad, in front of store of Harley Cleaver, on concrete foundation of gasoline pump; chiseled square

T. 56 N., R. 16 W., W. sixteenth cor. between secs. 27 and 34, 1.5 mi. W. of State Highway 3, 100 ft. S.E. of dwelling of R. F. Neeson, 30 ft. S. and 36 ft. W. from T-rd. E., in root on E. side of 12-in. pine tree; copper nail and washer

T. 56 N., R. 16 W., W. sixteenth cor. sec. 27, 18 ft. S. and 28 ft. W. from crossroads, in concrete post; standard tablet stamped "T 10 W" 1936

T. 56 N., R. 16 W., in NW 1/4 sec. 22, 25 ft. S. and 85 ft. E. from E. end of bridge over New Chariton River, in root on E. side of 14-in. cottonwood tree; copper nail and washer

Bridge over New Chariton River, 0.5 mi. W. of, 40 ft. S. and 60 ft. W. from T-rd. N., in root on N. side of 36-in. pecan tree; crossed nails

T. 56 N., R. 16 W., W. sixteenth cor. sec. 27, 18 ft. S. and 28 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 10 W 1936"

T. 56 N., R. 16 W., near center sec. 29, 60 ft. S. and 20 ft. E. from dwelling of G. A. Ross, in concrete root on S. side of 22-in. hickory tree; copper nail and washer

T. 56 N., R. 16 W., near quarter cor. between secs. 29 and 30, 20 ft. S. and 20 ft. W. from T-rd. E., on W. end of iron pipe culvert; painted cross


T. 56 N., R. 16 W., on W. line sec. 30, 90 ft. S. and 20 ft. E. from crossroads, on E. end of concrete culvert; chiseled square

(Continued in Marcelline quadrangle; see line 1.)

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Laclede to Macon.

MARCELIN QUADRANGLE

(Chariton, Linn, and Macon Counties)

1. FROM COLLEGE MOUND QUADRANGLE AT SEC. 30, T. 56 N., R. 16 W., WEST BY WAY OF BYNUMVILLE TO SEC. 25, T. 56 N., R. 18 W. (by J. J. Crane in 1937)

(by J. J. Crane in 1937)

(Continued from College Mound quadrangle; see line 2.)


Bynumville, 1 mi. E. of, 55 ft. N. and 20 ft. E. from T-rd. W., in root on E. side of triple maple tree; copper nail and washer


Bynumville, 0.5 mi. W. of, along State Highway 129, 30 ft. S. and 55 ft. W. from junction of rd. W., in root on S. side of 25-in. elm tree; copper nail and washer

Bynumville, 0.5 mi. N. and 0.5 mi. W. from, 40 ft. N. and 150 ft. W. from crossroads, in root on S. side of 14-in. white-oak tree; crossed nails

T. 56 N., R. 17 W., cor. secs. 27, 28, 33, and 34, 30 ft. N. and 50 ft. E. from crossroads, in fence corner, in root on S. side of 22-in. elm tree; copper nail and washer

MARCELIN QUADRANGLE

(Latitude 39°30' -39°14'; longitude 92°15' -93°00')
T. 56 N., R. 17 W., on line between secs. 30 and 31, 0.8 mi. W. of T-rd. S., 10 ft. N. of N. sec. 30, in root on E. side of 30-in. maple tree; copper nail and washer 806.51
T. 56 N., R. 17 W., on line between secs. 30 and 31, 100 ft. N. and 20 ft. W. from T-rd. S., 8 ft. E. of driveway, in top of stump; crossed nails 837.55
T. 56 N., R. 17 W., cor. secs. 25, 30, 31, and 36, 30 ft. N. and 50 ft. W. from T-rd. W., in root on SE. side of 16-in. elm tree; copper nail and washer 762.72

2. FROM ROTHVILLE QUADRANGLE AT SEC. 2, T. 55 N., R. 19 W., EAST TO SEC. 25, T. 56 N., R. 18 W. (by F. Y. Brown in 1937)
(Continued from Rothville quadrangle; see line 3.)
T. 56 N., R. 19 W., quarter cor. between secs. 25 and 36, 20 ft. N. and 20 ft. W. from T-rd. N., in concrete post; standard tablet stamped \"Prim Trav Sta No 25 P 1920\" 808.977
T. 56 N., R. 19 W., cor. secs. 25, 30, 31, and 36, 15 ft. N. and 15 ft. W. from crossroads, in base of telephone pole; spike 792.19
T. 56 N., R. 19 W., on line between secs. 30 and 31, at SE. corner of bridge over Long Branch; surface of floor 791.8
T. 56 N., R. 19 W., cor. secs. 29, 30, 31, and 32, 15 ft. S. and 35 ft. W. from State Highway 5 at rd. W., on center of S. head wall of concrete culvert; chiseled square 799.25
T. 56 N., R. 19 W., on line between secs. 29 and 32, 35 ft. NW. of farm-corn field; root on NW. side of twin 8-in. white-oak tree; crossed nails 803.66
T. 56 N., R. 19 W., near T-rd. S., 8 ft. E. of driveway, in top of stump; copper nail and washer 795.25
T. 56 N., R. 19 W., near center sec. 27, 60 ft. N. and 15 ft. E. from T-rd. E., on E. end of concrete culvert; chiseled square 818.779
T. 56 N., R. 19 W., in SW 1/4 sec. 26, on top of bolt head at SW. corner of S. end of bridge over Mussel Fork Creek; chiseled square 791.65
T. 56 N., R. 19 W., near SW 1/4 sec. 26, on top of bolt head at SW. corner of S. end of bridge over Mussel Fork Creek; chiseled square 969.51

3. FROM BUCKLIN QUADRANGLE AT SEC. 15, T. 57 N., R. 18 W., SOUTH BY WAY OF MUSSELFORK INTO SALISBURY QUADRANGLE AT SEC. 12, T. 54 N., R. 18 W. (by W. W. Kennedy in 1937)
(Continued from Bucklin quadrangle; see line 7.)
T. 57 N., R. 18 W., in SW 1/4 sec. 13, 0.9 mi. S. of U.S. Highway 36, 50 ft. N. and 40 ft. W. from rd. forks, in root on S. side of 12-in. elm tree; copper nail and washer 858.72
T. 57 N., R. 18 W., in SW 1/4 sec. 24, 130 ft. E. of rd. forks, in root on N. side of 15-in. white-oak tree; copper nail and washer 853.74
T. 57 N., R. 18 W., cor. secs. 25, 26, 29, and 36, 20 ft. N. and 50 ft. W. from rd. forks, in root on SE. side of 10-in. hackberry tree; copper nail and washer 845.57
Marcelline, 3.4 mi. E. of (measured from State Highway 5), along County Route Z, 200 ft. E. of Hardin School, 30 ft. S. and 20 ft. E. from highway at N.-S. rd., 11 ft. N. and 6 ft. E. from corner fence posts; in concrete post; standard tablet stamped \"AG B 1937\" 778.124
T. 57 N., R. 18 W., near center sec. 27, 60 ft. N. and 15 ft. E. from T-rd. S., in root on S. side of 12-ln. maple tree; copper nail and washer 840.62
T. 57 N., R. 18 W., in SE 1/4 sec. 55, 15 ft. S. of T-rd. N., in top of stump at base of 8-in. wild-cherry tree; copper nail and washer 816.50
T. 57 N., R. 18 W., in SW 1/4 sec. 20, 20 ft. N. and 50 ft. E. from, at base of corner fence post; surface of ground 807.9
T. 56 N., R. 18 W., quarter cor. between secs. 2 and 11, 65 ft. E. of SE. corner of Peden Chapel, 30 ft. N. and 60 ft. W. from crossroads, in root on S. side of 16-in. post-oak tree; copper nail and washer 815.29
T. 56 N., R. 18 W., E. sixteenth cor. between secs. 11 and 14, 15 ft. S. and 110 ft. E. from T-rd. S., 15 ft. N. from yard of small farmhouse, in root on SW. side of 12-in. maple tree; copper nail and washer 777.55
T. 56 N., R. 18 W., cor. secs. 11, 12, 13, and 14, 20 ft. N. and 20 ft. W. from rd. corner, in concrete post; standard tablet stamped \"Prim Trav Sta No 53 P 1926\" 818.779
T. 55 N., R. 18 W., cor. secs. 13, 14, 23, and 24, 60 ft. N. and 50 ft. W. from T-rd. N., in root on NW. side of 20-in. walnut tree; copper nail 722.17
T. 56 N., R. 18 W., on line between secs. 13 and 24, on SE. pier of steel bridge over Mussel Fork Creek; bolt head 705.29
T. 56 N., R. 18 W., cor. secs. 15, 16, 19, and 21, 20 ft. S. and 20 ft. W. from T-rd. W., in root on N. side of 12-in. sycamore tree; copper nail and washer 729.30
T. 56 N., R. 17 W., quarter cor. sec. 19, 250 ft. N. of T-rd. S., on SW. corner of concrete bridge; chiseled square 722.06
T. 56 N., R. 18 W., E. quarter cor. sec. 26, 10 ft. S. and 15 ft. W. from crossroads, in root on W. side of small oak tree; copper nail and washer 738.15

T. 56 N., R. 18 W., in SE 1/4 sec. 31, 65 ft. S. and 15 ft. E. from T-rd. E., in root on S. side of large burr-oak tree; copper nail and washer 711.03

T. 56 N., R. 18 W., 30 ft. S. and 60 ft. W. from crossroads, in root on W. side of small oak tree; copper nail and washer 733.17

T. 56 N., R. 18 W., quarter cor. between secs. 1 and 12, 12 ft. S. and 60 ft. W. from crossroads, in root on W. side of small oak tree; copper nail and washer 738.15


T. 55 N., R. 18 W., E. sixteenth cor. between secs. 1 and 12, 15 ft. N. and 20 ft. W. from rd. corner S.-E. and private rd. W., in root on S. side of 6-in. post-oak tree; crossed nails 787.15

T. 55 N., R. 18 W., E. sixteenth cor. between secs. 12 and 13, 15 ft. S. and 20 ft. E. from crossroads, in root on W. side of 12-in. wild-cherry tree; copper nail and washer 739.06

T. 56 N., R. 18 W., quarter cor. sec. 16, 60 ft. W. of T-rd. N., on N. end of concrete culvert; chiseled square 762.69

T. 56 N., R. 18 W., S. quarter cor. sec. 16, 60 ft. S. of T-rd. E., on E. end of concrete culvert; chiseled square 762.72

T. 56 N., R. 18 W., S. quarter cor. sec. 36, 60 ft. W. of T-rd. N., on N. end of concrete culvert; copper nail and washer 798.48

T. 55 N., R. 18 W., cor. secs. 1 and 6, 200 ft. S. of T-rd. S., on N. side of 16-in. elm tree; copper nail and washer 762.79

T. 55 N., R. 18 W., S. quarter cor. between secs. 1 and 6, 20 ft. N. and 15 ft. W. from County Route D at N.-S. crossroad, on W. end of iron pipe culvert; chiseled square 759.64

T. 55 N., R. 18 W., S. quarter cor. between secs. 1 and 6, 50 ft. S. and Feet 15 ft. E. from crossroads, in root on N. side of 11-in. elm tree; copper nail and washer 798.48

T. 55 N., R. 18 W., cor. secs. 1 and 6, about 200 ft. N. of Prather School, 20 ft. N. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 55 F 1923." 766.60

T. 55 N., R. 18 W., cor. secs. 1 and 6, about 200 ft. N. of Prather School, 20 ft. N. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 55 F 1923." 766.60

T. 51 N., R. 18 W., N. cor. secs. 1 and 2, 20 ft. S. and 150 ft. W. from T-rd. N., on S. end of iron pipe culvert; chiseled square 737.78

T. 51 N., R. 18 W., N. cor. secs. 1 and 2, 80 ft. S. and 45 ft. W. from T-rd. E., in root on W. side of stump; crossed nails 733.17

T. 51 N., R. 18 W., N. corner of post office, in corner of yard; iron post stamped "Prim Trav Sta No 9 F 1920 Mo 802." 788.06

St. Catharine, 75 ft. W. of sta., 50 ft. S. of SE. corner of post office, in corner of yard; iron post stamped "Prim Trav Sta No 9 F 1920 Mo 802." 801.73

1. FROM LINNEUS QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD BY WAY OF BUCKLIN, LINGO, AND NEW CAMBRIA INTO ELMER QUADRANGLE (leveled twice by S. R. Archer in 1920)

(Continued from Linneus quadrangle; see line 1.)
SPIRIT LEVELING IN MISSOURI

T. 58 N., R. 18 W., in S 1/2 sec. 31, on top of N. end of parapet wall of E. abutment of bridge 97.9 ft. over East Yellow Creek; chiseled square
T. 57 N., R. 18 W., in NE 1/4 sec. 6, 7/4 ft. S. and 75 ft. E. from private rd. crossing, on front of or along S. side of tracks; copper nail and washer, in root on NE. side of twin 2 1/2-in. elm tree; copper nail and washer
T. 57 N., R. 18 W., in NE 1/4 sec. 5, NE. of rd. crossing; iron post stamped "Prim Trav Sta No 39 F 1920 Mo 766" 756.15
T. 57 N., R. 18 W., in NE 1/4 sec. 5, on top of S. end of parapet wall of E. abutment of bridge 96.4 ft. over Sights Branch; chiseled square
T. 57 N., R. 18 W., in NE 1/4 sec. 4, 60 ft. S. and 5 ft. E. from rd. crossing (abandoned); 90 ft. W. of sign marked "Bucklin", in field S. of R.R., on E. bank of small drain, 10 ft. S. of fence line, in root on N. side of oak tree; copper nail and washer
T. 57 N., R. 18 W., in NE 1/4 sec. 3, at W. end of siding, N. of main track, 1/2 ft. N. of N. rail, in front of telephone booth, on top of NW. corner of concrete base of semaphore (abandoned); 700 ft. W. of Atchison, Topeka & Santa Fe Ry. bridge over Chicago, Burlington & Quincy R.R., 70 ft. N. of rd. crossing, E. of track, in root on SE. side of 36-in. elm tree; copper nail and washer
Bucklin, in NE. corner of schoolyard, 150 ft. S. of S. end of viaduct over R.R.; iron post stamped "Prim Trav Sta No 39 F 1920 Mo 920" 920.75
T. 57 N., R. 18 W., in NE 1/4 sec. 11, N. of R.R., 150 ft. S. of fence line, in root on N. side of N. one of two small cherry trees; copper nail and washer
T. 57 N., R. 18 W., in NW 1/4 sec. 12, S. of R.R., on top at E. side of concrete base of E. steel pillar of overhead bridge; chiseled square
T. 57 N., R. 18 W., in NW 1/4 sec. 7, on top of W. end of parapet wall of W. abutment of bridge 91.7 ft. over Muscatatuck Creek; chiseled square
T. 57 N., R. 18 W., in NW 1/4 sec. 8, 190 ft. W. of private rd. crossing at milepost 91, S. of R.R., 10 ft. N. of fence line, in root (1 1/2-in. oak tree; copper side of 12-in. oak tree; copper nail and washer
Lingo, 190 ft. N. of rd. crossing, 190 ft. N. and 160 ft. W. from shelter shed; iron post stamped "Prim Trav Sta No 39 F 1920 Mo 617" 617.30
T. 57 N., R. 18 W., in NW 1/4 sec. 10, on top of S. of W. abutment of bridge 88.89 ft. over Brush Creek; chiseled square (U.S.C.G.S. Survey 782.912
T. 57 N., R. 18 W., in NE 1/4 sec. 10, 60 ft. S. and 75 ft. E. from private rd., 10 ft. S. of fence line, in root on N. side of W. one of two small oak trees; copper nail and washer
T. 57 N., R. 18 W., in NE 1/4 sec. 11, 90 ft. S. of rd. crossing, W. of post, in root on SW. side of 36-in. elm tree; copper nail and washer
New Cambria, at sta., in front of operator's window, S. of tracks, on top of NW. corner of concrete base of semaphore; chiseled square
New Cambria, E. corner of public park, 12 ft. SW. of W. corner of Jones and Main Streets; iron post stamped "Prim Trav Sta No L0 F 1920 Mo 856" 856.17

(Continued in Elmer quadrangle; see line 1.)

2. FROM ELMER QUADRANGLE AT SEC. 1, T. 59 N., R. 17 W., WEST TO GOLDSBERRY, THENCE NORTH INTO WINIGAN QUADRANGLE AT SEC. 24, T. 60 N., R. 17 W. (by B. A. Barnes in 1936)

(Taken from Elmer quadrangle; see line 2.)

T. 60 N., R. 17 W., in SW 1/4 sec. 36, 18 ft. N. and 20 ft. E. from T-rd. N., in root on S. side of 10-in. black-oak tree; crossed nails
Tps. 59 and 60 N., R. 17 W., cor. secs. 1, 2, 35, and 36, 22 ft. N. of T-rd. S., 1 ft. inside fence, in concrete post; standard tablet stamped "Prim Trav Sta No 65 F 1920 Mo 517" 517.93
Goldberry, in SW 1/4 sec. 35, T. 60 N., R. 17 W., 6 ft. W. of door of post office, on concrete step of sidewalk; chiseled square
Goldberry, in SW 1/4 sec. 35, T. 60 N., R. 17 W., 6 ft. W. of door of post office, on concrete step of sidewalk; chiseled square
T. 60 N., R. 17 W., 36 ft. S. and 85 ft. W. from crossroads, 40 ft. N. and 5 ft. E. from NE. corner of farmhouse, in root on N. side of 26-in. maple tree; copper nail and washer
T. 60 N., R. 17 W., on line between secs. 26 and 35, 35 ft. S. and 26 ft. E. from T-rd. N., 42 ft. S. and 31 ft. W. from farmhouse, in root on N. side of twin 3-in. maple tree; copper nail and washer
T. 60 N., R. 17 W., in SW 1/4 sec. 26, 35 ft. E. of rd., in root on N. side of 26-in. white-oak tree; copper nail and washer

(Continued in Winigan quadrangle; see line 2.)

3. FROM ELMER QUADRANGLE AT SEC. 12, T. 58 N., R. 17 W., SOUTH TO NEW CAMBRIA (by B. A. Barnes in 1936)

(Taken from Elmer quadrangle; see line 4.)

T. 58 N., R. 17 W., 0.1 mi. E. of cor. secs. 11, 12, 13, and 14, 66 ft. S. and 3 ft. W. from crossroads, near farmhouse of H. W. Dowell, 1 ft. N. of N. and 38 ft. S. corner of concrete sidewalk; chiseled square
T. 58 N., R. 17 W., in SW 1/4 sec. 13, 18 ft. N. and 6 ft. E. from junction of private rd. N., in root on E. side of 12-in. black-oak tree; copper nail and washer
T. 58 N., R. 17 W., near center sec. 21, 10 ft. N. and 20 ft. W. from rd. corner N.-E. and private rd. W., in root on E. side of 12-in. elm tree; copper nail and washer
New Cambria, in NE. quarter of SE. corner of SE. corner of SW. corner of Jones and Main Streets; iron post stamped "Prim Trav Sta No L0 F 1920 Mo 856" 856.17

(For balance in Elmer quadrangle, see line 4.)
PART 6, NORTHEASTERN MISSOURI, 1896-1958


U.S.C. & G.S. standard disk stamped "Q 120 1935"


(Continued from Linneus quadrangle; see line 5.)


T. 59 N., R. 19 W., in SW 1/4 sec. 1, 60 ft. N. and 15 ft. E. from T-rd. W., on center of W. head wall of concrete culvert; chiseled square.

Tps. 59 and 60 N., R. 19 W., on line between secs. 1 and 36, 10 ft. N. and 15 ft. W. from T-rd. W., on N. side of iron pipe culvert; (mark not described).


T. 60 N., R. 19 W., near center sec. 25, 45 ft. N. and 20 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 56 F 1926." 888.276

T. 60 N., R. 19 W., on line between secs. 21 and 25, 10 ft. S. of rd., in SW. corner of bridge; spike.

T. 60 N., R. 19 W., near cor. secs. 21, 22, 27, and 28, 25 ft. S. and 1,000 ft. E. from crossroad, on N. side of 15-in. cottonwood tree; copper nail and washer.


T. 60 N., R. 19 W., near center sec. 29, 750 ft. E. of T-rd. W., in NW. corner of churchyard, in root on W. side of 10-in. elm tree; copper nail and washer.

T. 60 N., R. 18 W., near E. sixteenth cor. between secs. 20 and 29, 26 ft. N. and 36 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 57 F 1926." 912.55

T. 60 N., R. 18 W., on line between secs. 21 and 25, 10 ft. S. of rd., in SW. corner of bridge; spike.

T. 60 N., R. 18 W., near cor. secs. 21, 22, 27, and 28, 25 ft. S. and 1,000 ft. E. from crossroad, on N. side of 15-in. cottonwood tree; copper nail and washer.


T. 60 N., R. 18 W., near E. sixteenth cor. between secs. 20 and 29, 26 ft. N. and 36 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 57 F 1926." 912.55

T. 60 N., R. 18 W., near E. sixteenth cor. between secs. 20 and 29, 26 ft. N. and 36 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 57 F 1926." 912.55

5. FROM LINNEUS QUADRANGLE AT SEC. 2, T. 58 N., R. 19 W., EAST TO SEC. 1, T. 58 N., R. 19 W. (by F. Y. Brown in 1937)

(Continued from Linneus quadrangle; see line 9.)

T. 58 N., R. 19 W., W. sixteenth cor. between secs. 2 and 11, 30 ft. N. and 80 ft. S. from crossroads, in farmyard, in root on S. side of 11-in. white-oak tree; copper nail and washer.


6. FROM WINIGAN QUADRANGLE AT SEC. 26, T. 60 N., R. 19 W., SOUTH TO SEC. 25, T. 60 N., R. 19 W. (by F. Y. Brown in 1937)

(Continued from Winigan quadrangle; see line 7.)


7. FROM BUCKLIN SOUTH ALONG STATE HIGHWAY 129 TO JUNCTION OF U.S. HIGHWAY 36, THEREBY EAST ALONG STATE HIGHWAY 129 (U.S. HIGHWAY 36) ABOUT 1.2 MILES, THEREBY SOUTH ALONG ROADS INTO MARCELINE QUADRANGLE AT SEC. 13, T. 57 N., R. 18 W. (by W. V. Kennedy in 1937)

U.S.C. & G.S. standard disk stamped "Q 120 1935"

Bucklin, 0.5 ml. S. of cor. secs. 2, 3, 10, and 11, T. 57 N., R. 18 W., 30 ft. N. and 15 ft. W. from junction of rd. W., on W. head wall of concrete culvert; chiseled square.

Bucklin, 1.5 ml. S. of cor. secs. 2, 3, 10, and 20 ft. E. from junction of U.S. Highway 36, on E. head wall of concrete culvert; chiseled square.

Bucklin, 1.5 ml. S. and 0.5 ml. E. from, on line between secs. 11 and 14, T. 57 N., R. 18 W., at center of junction of rd. S., on pavement; chiseled square.

941.55

837.137

906.09

875.15

884.04
8. **FROM ST. CATHARINE NORTH ALONG STATE HIGHWAY 11 TO JUNCTION OF COUNTY ROUTE C, THENCE WEST ALONG COUNTY ROUTE C INTO LINNEUS QUADRANGLE (by W. V. Kennedy in 1937)**

- **T. 58 N., R. 19 W., S. sixteenth cor. between secs. 23 and 26, 12 ft. S. and 20 ft. W. from junction of rd. W., on S. head wall of concrete culvert; chiseled square**
  - Footprint
  - Page 862.699

- **T. 58 N., R. 19 W., quarter cor. between secs. 23 and 26, 12 ft. S. and 35 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 38 F 1921"**
  - Footprint
  - Page 880.236

- **T. 58 N., R. 19 W., S. sixteenth cor. between secs. 18 and 21, 17 ft. W. and 20 ft. S. from crossroad, on W. head wall of concrete culvert; chiseled square**
  - Footprint
  - Page 879.94

- **T. 58 N., R. 19 W., S. sixteenth cor. between secs. 12 and 17, 20 ft. E. and 15 ft. W. from junction of rd. E., on W. head wall of concrete culvert; chiseled square**
  - Footprint
  - Page 883.57

- **T. 58 N., R. 19 W., S. sixteenth cor. between secs. 12 and 17, 17 ft. W. and 20 ft. S. from crossroad, on W. head wall of concrete culvert; chiseled square**
  - Footprint
  - Page 899.72

- **T. 58 N., R. 19 W., S. sixteenth cor. between secs. 18 and 21, 20 ft. W. of Atchison, Topeka & Santa Fe Ry. at rd. crossing, on S. corner of concrete base of semaphore; chiseled square**
  - Footprint
  - Page 905.87

- **T. 58 N., R. 19 W., S. sixteenth cor. between secs. 12 and 17, 30 ft. E. from junction of rd. E., on W. head wall of concrete culvert; chiseled square**
  - Footprint
  - Page 923.11

- **T. 58 N., R. 19 W., S. sixteenth cor. between secs. 12 and 17, 15 ft. W. and 20 ft. S. from junction of rd. W., on W. end of iron pipe culvert; painted square**
  - Footprint
  - Page 930.42

- **T. 58 N., R. 19 W., S. sixteenth cor. between secs. 12 and 17, 30 ft. W. from junction of rd. W., on W. end of iron pipe culvert; painted square**
  - Footprint
  - Page 938.86

9. **FROM BUCKLIN NORTH ALONG STATE HIGHWAY 129 TO SECO. 1, T. 58 N., R. 18 W., THENCE NORTH ALONG OTHER ROADS TO SEC. 13, T. 59 N., R. 18 W., THENCE NORTH ALONG STATE HIGHWAY 129 TO NEW BOSTON, THENCE NORTH ALONG STATE HIGHWAY 11 TO SECO. 25, T. 60 N., R. 18 W. (by W. V. Kennedy in 1937)**

- **Bucklin, 0.5 mi. NE. of, 12 ft. S. and 120 ft. E. from junction of rd. W., on center of operator's window; top of westernmost rail**
  - Footprint
  - Page 921.5

- **Bucklin, 0.5 mi. SE. of, 12 ft. S. and 120 ft. E. from junction of rd. W., on center of operator's window; top of easternmost rail**
  - Footprint
  - Page 923.5

- **Bucklin, 0.5 mi. S. of, 12 ft. S. and 20 ft. E. from junction of rd. E., on S. corner of concrete base of semaphore; chiseled square**
  - Footprint
  - Page 928.5

- **Bucklin, 2 mi. N. of, 15 ft. W. and 20 ft. E. from junction of rd. E., on N. end of iron pipe culvert; chiseled square**
  - Footprint
  - Page 930.42

- **Bucklin, 3 mi. NE. of, 12 ft. N. and 20 ft. E. from junction of private rd. E., on N. end of iron pipe culvert; chiseled square**
  - Footprint
  - Page 931.11

- **Bucklin, 1 mi. NE. of, in NE 1/4 sec. 13, 12 ft. S. and 20 ft. W. from junction of rd. W., on W. end of iron pipe culvert; painted square**
  - Footprint
  - Page 932.92

- **Bucklin, 1.5 mi. S. of, 12 ft. S. and 20 ft. E. from junction of rd. E., on S. head wall of concrete culvert; chiseled square**
  - Footprint
  - Page 933.50

- **Bucklin, 0.5 mi. S. of, 12 ft. S. and 20 ft. E. from junction of rd. E., on S. corner of concrete base of semaphore; chiseled square**
  - Footprint
  - Page 933.50

- **Bucklin, 0.5 mi. N. of, 12 ft. N. and 20 ft. E. from junction of private rd. W., on N. end of iron pipe culvert; chiseled square**
  - Footprint
  - Page 937.2
T. 58 N., R. 18 W., W. sixteen cor. sec. 12, 90 ft. S. and 85 ft. E. from junction of rd. W., in concrete platform of cistern; chiseled square

T. 58 N., R. 18 W., on line between secs. 1 and 12, 20 ft. N. and 20 ft. W. from crossroad, on N. end of iron pipe culvert; painted square

T. 58 N., R. 18 W., in SW 1/4 sec. 1, 190 ft. SW. of junction of rd. W., 50 ft. NW. of highway, at gate, on top of highway right-of-way post; painted square

T. 58 N., R. 18 W., quarter cor. between secs. 1 and 2, 35 ft. N. and 25 ft. W. from T-rd. E., on center of E. edge of concrete platform of well; chiseled square


T. 59 N., R. 18 W., cor. secs. 25, 26, 35, and 36, 670 ft. N. and 15 ft. W. from crossroads, 50 ft. W. of gate, in root on E. side of 12-in. locust tree; copper nail and washer

T. 59 N., R. 18 W., near quarter cor. between secs. 25 and 26, 18 ft. S. and 80 ft. E. from crossroads, in root on W. side of 22-in. maple tree; crossed nails

T. 59 N., R. 18 W., quarter cor. between secs. 23 and 24, 25 ft. W. of rd. jog S.-N., in root on E. side of 50-in. post-oak tree; copper nail and washer


T. 59 N., R. 18 W., E. sixteen cor. between secs. 13 and 24, 225 ft. W. of crossroad, 30 ft. S. of barn, 35 ft. N. of rd., in root on S. side of 30-in. locust tree; copper nail and washer


T. 59 N., R. 18 W., near center sec. 12, 90 ft. N. and 15 ft. W. from junction of rd. W., on W. end of iron pipe culvert; chiseled square

New Boston, O.1 m. S.E. of, 25 ft. S. of junction of rd. SE., on SW. end of iron pipe culvert; painted square

New Boston, in NW. corner of yard of Christian Church, 30 ft. S. of highway, in concrete post; standard tablet stamped "Prim Trav Sta No 59 P 1920"

New Boston, 0.5 m. W. of, 16 ft. N. of junction of State Highway 11, on N. end of concrete head wall of culvert; chiseled square

Tps. 59 and 60 N., R. 18 W., cor. secs. 1, 2, 25, 35, and 36, 18 ft. S. and 15 ft. E. from crossroad, on center of E. head wall of concrete culvert; chiseled square

T. 60 N., R. 18 W., cor. secs. 25, 26, 35, and 36, 33 ft. N. and 18 ft. E. from junction of rd. W., on E. head wall of concrete culvert; chiseled square

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Laclede to Macon.
SPIRIT LEVELING IN MISSOURI

WINIAGAN QUADRANGLE
(Latitude 40°00'00"-40°15'; longitude 92°15'-93°00')
Adair, Linn, Macon, and Sullivan Counties


(Continued from Kirksville quadrangle; see line 1.)

T. 62 N., R. 17 W., near center sec. 1, 50 ft. NW. of T-rd. W., in fence line, in root on SE. side of twin 16-in. oak tree; copper nail and washer 969.96

T. 62 N., R. 17 W., quarter cor. between secs. 1 and 12, 60 ft. SW. of rd. fork SW., in fence line, in root on E. side of 16-in. oak tree; copper nail and washer 956.19

T. 62 N., R. 17 W., in NW 1/4 sec. 12, 100 ft. W. of dwelling at rd. corner, in root on W. side of 14-in. oak tree; copper nail and washer 969.70

T. 62 N., R. 17 W., in SW 1/4 sec. 12, N. of rd. corner, in E.-S. fence line, in root on S. side of 14-in. oak tree; copper nail and washer 961.56

T. 62 N., R. 17 W., near center sec. 1, 50 ft. NW. of T-rd. W., in fence line, in root on SE. side of twin 16-in. oak tree; copper nail and washer 969.96

T. 62 N., R. 17 W., near center sec. 1, 50 ft. NW. of T-rd. W., in fence line, in root on SE. side of twin 16-in. oak tree; copper nail and washer 920.17

T. 62 N., R. 17 W., on line between secs. 13 and 14, 80 ft. S. of rd.; in root on E. side of 24-in. oak tree; copper nail and washer 958.08

T. 62 N., R. 17 W., in NE 1/4 sec. 23, 100 ft. E. of dwelling, 75 ft. S. of rd., in E.-S. fence line, in root on S. side of 10-in. oak tree; copper nail and washer 957.50

Pure Air, in NW 1/4 sec. 23, T. 62 N., R. 17 W., in root on N. side of 16-in. hedge tree; copper nail and washer 987.76

T. 62 N., R. 17 W., in SW 1/4 sec. 22, on top of ridge in pasture, 40 ft. S. of fence, in root on N. side of 20-in. oak tree; copper nail and washer 986.92

T. 62 N., R. 17 W., on line between secs. 23 and 26, 250 ft. W. of dwelling, 20 ft. E. of fence, in root on S. side of 24-in. oak tree; copper nail and washer 983.95

T. 62 N., R. 17 W., in NE 1/4 sec. 26, 500 ft. NE. of T-rd. E., in fence line N. of rd., in root on S. side of 24-in. oak tree; copper nail and washer 978.18

T. 62 N., R. 17 W., in SW 1/4 sec. 29, 30 ft. N. of fence, in root on S. side of 24-in. oak tree; copper nail and washer 957.78

(Continued in Kirksville quadrangle; see line 1.)

2. FROM BUCKLIN QUADRANGLE AT SEC. 29, T. 60 N., R. 17 W., NORTH-EAST INTO KIRKSVILLE QUADRANGLE AT SEC. 12, T. 60 N., R. 17 W. (by E. A. Barnes in 1926)

(Continued from Bucklin quadrangle; see line 2.)

PART 6, NORTHEASTERN MISSOURI, 1896-1938

3. FROM GREEN CITY QUADRANGLE IN SEC. 23, T. 63 N., R. 19 W. (by D. R. Stewart in 1936)

Concrete culvert, on SW. end of; chiseled square

T. 62 N., R. 19 W., in line between secs. 26 and 35, 200 ft. N. of winding rd.; crossing on root of white-oak tree; copper nail and washer


Owasco, quarter cor. between secs. 25, 26, 35, and 36, 20 ft. S. and 35 ft. E. from T-rd. S., in root on N. side of twin 12-in. elm tree; copper nail and washer

Drain, 60 ft. N. and 25 ft. W. from, in root on E. side of 12-in. elm tree; crossed nails

T. 62 N., R. 19 W., near S. sixteenth cor. between secs. 13 and 14, 50 ft. S. and 20 ft. W. from bridge, in root on S. side of 16-in. elm tree; copper nail and washer

T. 62 N., R. 19 W., near S. sixteenth cor. between secs. 13 and 14, 10 ft. S. and 75 ft. E. from T-rd. E., at SE. corner of bridge, on top of wing wall; chiseled square

Small bridge, at NW. corner of, on top of wing wall; chiseled square

U.S.C. & G.S. standard disk stamped "C 17 1933"


Culvert, on E. head wall of; chiseled cross

T. 62 N., R. 19 W., quarter cor. between secs. 1 and 2, 50 ft. E. of T-rd. W., in root on W. side of 14-in. hedge tree; copper nail and washer

Small bridge, at NW. corner of, on top of wing wall; chiseled square

U.S.C. & G.S. standard disk stamped "C 17 1933"
6. FROM KIRKSIVLE QUADRANGLE AT SEC. 36, T. 62 N., R. 17 W., WEST TO CRASCO (by J. J. Crane in 1937)

(Continued from Kirksville quadrangle; see line 5.)

(Continued from Kirksville quadrangle; see line 7.)

T. 62 N., R. 17 W., in S 1/2 sec. 27, 65 ft. NE. of NE. corner of school, 30 ft. S. of rd., in root on S. side of 10-in. oak tree; crossed nails
1,054.38

T. 63 N., R. 18 W., in NE 1/4 sec. 25, 14.0 ft. N. and 50 ft. E. from rd., in root on S. side of 20-in. post-oak tree; copper nail and washer
1,054.74

T. 62 N., R. 17 W., on line between secs. 28, 29, 32, and 33, 150 ft. E. from T-rd. E., in root on N. side of 10-in. post-oak tree; copper nail and washer
1,055.412

Maple Grove School, at S. end of, on SW. corner of concrete porch; chiseled square
1,025.38

Foot
1,009.15

chiseled square
1,009.15

chiseled square
1,050.99

chiseled square
1,051.11

chiseled square
1,020.61

chiseled square
1,050.924

chiseled square
1,051.10

chiseled square
1,026.58
T. 62 N., R. 17 and 18 W., near S. sixteenth cor. between secs. 25 and 30, 65 ft. N. and 20 ft. E. from T-rd. E. on Adair-Sullivan county line, 1/4 of N 1/2 sec. 25, 15 ft. N. and 20 ft. E. from concrete post; copper nail and washer


T. 62 N., R. 18 W., near cor. secs. 26, 27, 28, and 35, 15 ft. N. and 20 ft. W. from 1/4 of N 1/2 sec. 25, white-oak tree; copper nail and washer

T. 62 N., R. 18 W., cor. between secs. 22 and 33, 30 ft. S. and 36 ft. W. from County Route U at crossroad, in concrete post; standard tablet stamped "T T 1558 ERA 1935" 965.30

7. FROM OWASCO SOUTH INTO BUCKLIN QUADRANGLE AT SEC. 21*, T. 60 N., R. 19 W. (by P. Y. Brown in 1937)

T. 61 N., R. 19 W., near cor. secs. 25, 26, 35, and 36, 15 ft. S. and 12 ft. W. from T-rd. S., on W. end of iron pipe culvert; painted square

T. 61 N., R. 19 W., quarter cor. between secs. 28 and 32, 10 ft. N. and 100 ft. E. from crossroad, 10 ft. N. and 10 ft. E. from small iron bridge, in root on S. side of 22-in. elm tree; copper nail and washer

Owasco, 1 mi. E. of, 20 ft. S. and 500 ft. W. from T-rd. S., in fence line, in N. side of stump; crossed nails

7. FROM OWASCO SOUTH INTO BUCKLIN QUADRANGLE AT SEC. 24*, T. 60 N., R. 19 W. (by P. Y. Brown in 1937)

T. 61 N., R. 19 W., on line between secs. 11 and 14, at NE. corner of speel bridge over Yellow Creek; top of handrail

T. 61 N., R. 19 W., cor. secs. 11, 12, 13, and 14, 15 ft. S. and 15 ft. E. from T-rd. S., in root on E. side of 22-in. white-oak tree; copper nail and washer

T. 61 N., R. 19 W., near quarter cor. between secs. 12 and 13, 30 (± 60) ft. S. and 20 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T 1561 E R A 1936"

T. 61 N., R. 19 W., quarter cor. between secs. 13 and 24, 700 ft. NE. of Baker Church, 500 ft. S. of T-rd. W., 25 ft. E. of rd., in root on W. side of 16-in. elm tree; copper nail and washer


Rd. forked NE., SE., and SW., 25 ft. NE. at corner fence post; surface of ground

T. 61 N., R. 19 W., near quarter cor. between secs. 25 and 36, at SE. corner of Mount Olive School, on concrete porch; chiseled square

T. 61 N., R. 19 W., cor. secs. 25, 26, 35, and 36, 27 ft. N. and 21 ft. E. from crossroads, in concrete post; standard tablet stamped "1562 ERA 1936"

T. 61 N., R. 19 W., near S. sixteenth cor. between secs. 35 and 36, on concrete doorstep of farmhouse of R. H. Smith; chiseled square


T. 60 N., R. 19 W., in sec. 13, 15 ft. W. of rd., in root on W. head wall of concrete culvert; chiseled square

T. 60 N., R. 19 W., near cor. secs. 10, 11, 14, and 15, 25 ft. N. and 15 ft. E. from junction of rd. N., on W. head wall of concrete culvert; chiseled square

(Continued in Bucklin quadrangle; see line 6.)
SPIRIT LEVELING IN MISSOURI

9. FROM KIRKSVILLE QUADRANGLE AT SEC. 21, T. 61 N., R. 17 W., SOUTH TO SEC. 13, T. 60 N., R. 17 W., THEN WEST TO SEC. 11, T. 60 N., R. 18 W. (by J. J. Crane in 1937)

(Continued from Kirksville quadrangle; see line 6.)

For balance in Kirksville quadrangle, see line 6.)

T. 61 N., R. 17 W., near center sec. 24, 100 ft. S. and 10 ft. W. from crossroads, in root on W. side of 30-in. elm tree; copper nail and washer 802.78

Mind, about 1 mi. E. of, along Mind-Yarrow ridge rd., 15 ft. S. and 300 ft. W. from junction of rd. S., in root on S. side of 15-in. elm tree; copper nail and washer 801.78

Mind, about 0.5 mi. E. of, along Mind-Yarrow rd., 60 ft. N. and 300 ft. E. from junction of rd. E., in N. side of 25-in. white-oak tree; copper nail and washer 911.12

Mind, on S. end of concrete step of Farmers Exchange Store; chiseled square 817.91

Mind, 1 mi. S.W. of, on top of hill, 150 ft. S. and 70 ft. W. from T-rd. W., in root on S. side of 22-in. maple tree; copper nail and washer 963.52


Grandview School, on E. side of, on SE. corner of concrete porch; chiseled square 968.56

T. 61 N., R. 17 W., near cor. secs. 16, 17, 20, and 21, 150 ft. S. of store, in concrete post; standard tablet stamped "I C C 1937" 1,002.13

T. 60 N., R. 17 W., near cor. secs. 6, 9, 16, and 17, 100 ft. N. of dwelling, 60 ft. E. of rd., in root on S. side of 20-in. maple tree; copper nail and washer 1,001.30

T. 60 N., R. 17 W., on line between secs. 8 and 17, 15 ft. SE. of Little School, 10 ft. W. of rd., in root on S. side of 20-in. maple tree; copper nail and washer 1,004.30

T. 60 N., R. 17 W., in SW 1/4 sec. 6, 180 ft. S. and 150 ft. E. of Little School, 10 ft. W. of rd., in root on S. side of 20-in. maple tree; copper nail and washer 875.54

T. 60 N., R. 17 W., in line between secs. 8 and 17, 15 ft. SE. of Little School, 10 ft. W. of rd., in root on S. side of 20-in. maple tree; copper nail and washer 900.38

For an additional level line along Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order line; Quincy, Ill. to Milan, Mo.
1. FROM QUEEN CITY QUADRANGLE AT POINT 1 MILE EAST OF GLENDALE SCHOOL SOUTH BY WAY OF GRAYSVILLE AND KARTINSTOWN INTO QUEEN CITY QUADRANGLE AT POINT 2 MILES NORTH OF SHIBLEY POINT (by P. W. McMillen and J. Rayburn in 1911)
(Continued from Queen City quadrangle; see line 3.)

Glenendale School, about 1 mi. W. of, on Shoal Creek rd., 500 ft. E. of large dwelling. N. of rd., in root of large boxelder tree; copper nail
Glenendale School, 0.6 mi. S. of, in NW 1/4 sec. 36, T. 66 N., R. 17 W., 700 ft. E. of dwelling of J. Steven, 200 ft. N. of wooden bridge over Shoal Creek, S. of rd.; iron post stamped "No 822"
Graysville, about 2 mi. N. of; at foot of Roller Hill, 100 ft. S. of bridge over small stream, E. of rd., in root of 24-in. maple tree; copper nail
Graysville, about 1 mi. N. of, 300 ft. NW. of dwelling of J. P. Collin, W. of rd., in root of 15-in. oak tree; copper nail
Graysville, 50 ft. W. of school, 25 ft. E. of large elm tree, in fence line; iron post stamped "No 1001"
Graysville, 1.1 mi. S. of, 60 ft. E. of T-rd. S., 20 ft. N. of dwelling, on corner of sidewalk; chiseled mark
Kartinstown, 0.5 mi. N. of, 30 ft. N. of entrance to Lone Pine Cemetery, in root of 12-in. hickory tree; copper nail
Kartinstown, 25 ft. from NW. corner of church, in NW. corner of churchyard; iron post stamped "No 993"
Kartinstown, 1.4 mi. S. of, on SW. corner of bridge over Blackbird Creek; bolt head
t. 65 N., R. 17 W., in SW 1/4 sec. 34, on top of ridge at rd. fork, in root of 10-in. oak tree; copper nail
Sidney, 1.5 mi. NE. of, on line between secs. 5 and 10, T. 65 N., R. 17 W.; SW. of crossroads; iron post stamped "No 613"
Husted School, 0.5 mi. W. of, on top of hill, SE. of T-rd. S. (? W.), in root of 12-in. oak tree; copper nail
Husted School, 1.2 mi. SW. of, near line between secs. 10 and 15, T. 65 N., R. 17 W., W. of N.-S. rd., in root of 15-in. hickory tree; copper nail
t. 64 N., R. 17 W., near center sec. 14, 50 ft. N. of dwelling of E. Robinson, S. of rd., in root of 12-in. hickory tree; copper nail
Shibley's Point, 2 mi. N. of, in NE 1/4 sec. 24, T. 65 N., R. 17 W., 200 ft. E. of T-rd. N.; iron post stamped "No 966"
(Continued in Queen City quadrangle; see line 5.)

2. FROM GLENDALE SCHOOL WEST BY WAY OF HARTFORD TO UNIONVILLE, THEN SOUTH BY WAY OF PENNVILLE TO GREEN CITY, THENCE EAST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD AND ROADS INTO QUEEN CITY QUADRANGLE AT SEC. 1, T. 63 N., R. 17 W. (by P. W. McMillen and J. Rayburn in 1911)

Glenendale School, 1.3 mi. W. of, at top of hill, N. of rd., in root of oak tree; copper nail
Glenendale School, 2.6 mi. SW. of, in SW 1/4 sec. 32, T. 65 N., R. 17 W., at curve in rd. to N., N. of rd., in oak tree; copper nail
Hartford, 0.6 mi. E. of, 200 ft. E. of dwelling of W. N. Wilson, at rd. corner N.-W., S. of rd.; iron post stamped "No 934"
Hartford, 1.1 mi. NW. of, NW. of T-rd. N., in tree; copper nail
Hartford, 2.7 mi. W. of, on line between secs. 35 and 36, opposite dwelling, in fence line N. of rd.; iron post stamped "984"
Top of third hill W. of Blackbird Creek, 15 ft. S. of rd., in root of hickory tree; copper nail

Unionville, 3.5 mi. E. of, near S. sixteenth cor. between secs. 32 and 33, T. 66 N., R. 18 W., W. of T-rd. E.; iron post stamped "Mo 1055"

(Foot for balance in Boynton quadrangle, see line 1.)

T. 65 N., R. 17 W., E. sixteenth cor. between secs. 11 and 12, near dwelling S. of rd., in S. side of maple tree; copper nail

T. 65 N., Rs. 18 and 19 W., 0.5 mi. N. of cor. secs. 13, 14, 19, and 21, in floor at SW. corner of bridge over South Blackbird Creek; bolt head

T. 65 N., R. 16 W., E. sixteenth cor. between secs. 18 and 19, NW. of castor-creek; iron post stamped "Mo 933" 931.187

T. 65 N., R. 18 W., near W. sixteenth cor. between secs. 19 and 30, N. of rd., in root of oak tree; copper nail

Tps. 65 and 66 N., Rs. 15 and 19 W., cor. of, at T-rd. S., on rock; chiseled square

T. 65 N., R. 16 W., in SE 1/4 sec. 6, SW. of T-rd. N., in root of oak tree; copper nail

Pennville, about 650 ft. N. of store building, 100 ft. W. of dwelling, W. of rd., in root of 12-in. hickory tree; copper nail

Pennville, about 1 mi. S. of, 200 ft. W. of small log cabin, W. of rd., root of 15-in. oak tree; copper nail

Pennville, 1.5 mi. S. of, on line between secs. 18 and 19, T. 65 N., R. 18 W., 200 ft. N. of bridge over Spring Creek, E. of rd.; iron post stamped "Mo 696"

Boon Hill School, 0.2 mi. S. of, 100 ft. S. of T-rd. W., on root of 10-in. wild-cherry tree; copper nail

Tps. 65 and 66 N., Rs. 18 and 19 W., cor. of, opposite T-rd. E.; iron post stamped "Mo 1064"

Green City, 1 mi. N. of, cor. secs. 5, 6, 7, and 8, T. 65 N., R. 18 W., SE. of crossroads, in root of 20-in. maple tree; copper nail

Green City, 0.5 mi. N. of, quarter cor. between secs. 7 and 8, T. 65 N., R. 18 W., in SW. corner of cemetery; iron post stamped "Mo 1065"

Green City, 600 ft. N. of Quincy, Omaha & Kansas City R.R. sta.; top of hill

Green City, 0.5 mi. E. of, SW. corner of bridge 93.1; bolt head

Green City, 1.5 mi. E. of, on NW. corner of bridge 92.2; bolt head

Greencastle, 1.2 mi. NE. of, in NE 1/4 sec. 12, T. 65 N., R. 18 W., N. of rd.; root of 15-in. tree; copper nail

Greencastle, 1.8 mi. NE. of, in NE 1/4 sec. 12, T. 65 N., R. 18 W., in SW. corner of cemetery; iron post stamped "Mo 1025"

Port Arthur School, 1.2 mi. SW. of, N. of junction of private rd. S., in root of 15-in. oak tree; copper nail

Port Arthur School, 250 ft. S. of, E. of rd., in root of 12-in. oak tree; copper nail

Stahl, 1.8 mi. W. of, at NE. corner of bridge over Spring Creek; bolt head

Stahl, 0.4 mi. W. of, in NW 1/4 sec. 5, T. 65 N., R. 17 W., 100 ft. E. of S. corner of bridge E.; iron post stamped "Mo 697"

Stahl, 1.2 mi. NE. of, at T-rd. S., in root of 12-in. oak tree; copper nail

Stahl, 1.6 mi. NE. of, at T-rd. N., in root of 15-in. oak tree; copper nail

T. 65 N., R. 17 W., near center sec. 1, 0.6 mi. W. of Bethel Church, at T-rd. S., in root of 15-in. oak tree; copper nail

(Continued in Queen City quadrangle; see line 6.)

3. FROM SEC. 3, T. 64 N., R. 17 W., WEST TO PENNVILLE

(by F. W. McMullen and J. Rayburn in 1911)

Sidney, 1.5 mi. N. of, on line between secs. 1 and 9, T. 65 N., R. 17 W., W. of rd., on large boulder; chiseled square

Clark School, 0.5 mi. N. of, on top of ridge, at rd. forks, in root of 10-in. oak tree; copper nail

Elko, about 2 mi. SE. of, on line between secs. 6 and 31, Tps. 64 and 65 N., R. 17 W., 200 ft. E. of T-rd. N., E. of rd., in root of 12-in. hickory tree; copper nail

T. 65 N., R. 16 W., in NE 1/4 sec. 1, 50 ft. W. of large dwelling, S. of rd.; iron post stamped "Mo 1015"

T. 65 N., R. 18 W., in NE 1/4 sec. 2, at SE. corner of bridge over Shut-eye Creek; bolt head

Pennville, about 2 mi. NW. of, in NE 1/4 sec. 4, T. 64 N., R. 18 W., at rd. corner E.-S.; iron post stamped "Mo 1034"

Pennville, about 2 mi. NE. of, in 300 ft. E. of bridge over North Spring Creek, W. of rd., in root of 12-in. elm tree; copper nail

Pennville, about 2 mi. NE. of, in NE 1/4 sec. 4, T. 64 N., R. 18 W., at rd. corner E.-S.; iron post stamped "Mo 1034"

Pennville, about 1 mi. S. of, near T-rd. E.; surface of rd.

Pennville, about 1 mi. W. of, near S. sixteenth cor. between secs. 1 and 6, SE. of T-rd.; iron post stamped "Mo 1025"
4. FROM BOYNTON QUADRANGLE AT UNIONVILLE EAST AND NORTH INTO CENTERVILLE QUADRANGLE AT SEC. 28, T. 66 N., R. 18 W. (by Cornish Beck in 1936) (Continued from Boynton quadrangle; see line 2.)  
Unionville, 1.4 mi. E. of courthouse, S. sixteenth cor. between secs. 31 and 36, T. 66 N., R. 18 and 19 W., 20 ft. N. and 50 ft. E. from T-rd. N., on head wall of culvert; chiseled square  
T. 66 N., R. 18 W., on line between secs. 30 and 31; 1.4 ft. S. and 15 ft. W. from T-rd. N., In telephone pole; nails  
T. 66 N., R. 18 W., on line between secs. 30 and 31, 21 ft. S. and 25 ft. E. from T-rd. W., on SE. side of 30-in. post-oak tree; copper nail and washer  
T. 66 N., R. 18 W., sixteenth cor. between secs. 29 and 30, 15 ft. N. and 30 ft. E. from T-rd. N., on head wall of culvert; chiseled square  
T. 66 N., R. 18 W., on line between secs. 28 and 29, 1/4 ft. N. and 22 ft. W. from T-rd. W., in concrete post; standard tablet stamped "U S B 1936"  
(Continued in Centerville quadrangle; see line 1.)  

5. FROM CENTERVILLE QUADRANGLE AT SEC. 29, T. 66 N., R. 17 W., SOUTH TO BAPTFORD (by Cornish Beck in 1936)  
T. 66 N., R. 17 W., near W. sixteenth cor. sec. 28, on NE. wing wall of bridge over Sandy Creek; chiseled square  
T. 66 N., R. 17 W., 0.1 mi. E. of center sec. 33, 32 ft. E. of T-rd. W., on SW. side of 16-in. hickory tree; bent nails  
T. 66 N., R. 17 W., in SE 1/4 see. 32, 15 ft. N. and 70 ft. E. from junction of State Highway 1 and County Route V, on head wall of culvert; chiseled square  
T. 66 N., R. 17 W., near E. sixteenth cor. sec. 28, on SW. wing wall of bridge over Sandy Creek; chiseled square  
T. 66 N., R. 17 W., 1/2 mi. E. of center sec. 32, 16 ft. E. of T-rd. W., on SW. side of 16-in. hickory tree; bent nails  
T. 66 N., R. 17 W., in NW 1/4 sec. 1, 35 ft. N. and 73 ft. E. from junction of State Highway 1 and County Route V, on SE. wing wall of bridge over Sandy Creek; chiseled square  
(Continued in Centerville quadrangle; see line 4.)  

6. FROM BOYNTON QUADRANGLE AT EAST CITY LIMITS OF UNIONVILLE NORTH INTO CENTERVILLE QUADRANGLE AT SEC. 26, T. 66 N., R. 19 W. (by D. R. Stewart in 1936)  
Unionville, at E. limits of, 2 ft. N. and 10 ft. W. from Chicago, Burlington & Quincy R.R. at rd. crossing, at NE. corner of semaphore; bolt head  
(Continued in Centerville quadrangle; see line 5.)  

7. FROM BOYNTON QUADRANGLE AT SEC. 14, T. 65 N., R. 19 W., EAST AND SOUTH INTO WINIGAN QUADRANGLE AT SEC. 23, T. 65 N., R. 19 W. (by D. R. Stewart in 1936) (Continued from Boynton quadrangle; see line 5.)  
T. 65 N., R. 19 W., near E. sixteenth cor. sec. 14, on SW. wing wall of bridge over Yellow Creek; chiseled square  
T. 65 N., R. 19 W., W. sixteenth cor. between secs. 13 and 23, 50 ft. S. and 25 ft. E. from crossroads, in root on W. side of 30-in. locust tree; copper nail and washer  
(Continued in Winigan quadrangle; see line 3.)  

8. FROM SEC. 13, T. 65 N., R. 19 W., WEST INTO BOYNTON QUADRANGLE AT SEC. 23, T. 65 N., R. 19 W. (by W. V. Kennedy in 1936)  
T. 65 N., R. 19 W., on line between secs. 14 and 23, on SE. wing wall of bridge over drain; chiseled square  
T. 65 N., R. 19 W., in NW 1/4 sec. 23, in NW. pier of bridge over Yellow Creek; copper nail and washer  
(Continued in Boynton quadrangle; see line 9.)  

9. FROM SEC. 23, T. 65 N., R. 18 W., NORTH TO GREENCASTLE (by H. B. Pyle in 1937)  
T. 65 N., R. 18 W., near E. sixteenth cor. between secs. 14 and 25, 15 ft. S. and 150 ft. W. from T-rd. N., on S. head wall of concrete culvert; chiseled square  
Reference mark 1, U.S.C. & G.S. standard reference disk stamped "Greencastle No 1 1936"  
U.S.C. & G.S. standard disk stamped "X 16 1935"  
For an additional level line along Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order line; Quincy, Ill. to Milan, Mo.
SPIRIT LEVELING IN MISSOURI

CENTREVILLE QUADRANGLE

(Latitude 40°30' - 40°50'; longitude 92°15' - 93°00')

Putnam County

1. FROM GREEN CITY QUADRANGLE AT SEC. 28, T. 66 N., R. 18 W.,
   NORTHEAST BY WAY OF OMAHA INTO MOULTON QUADRANGLE AT
   SEC. 28, T. 66 N., R. 17 W. (By Cornish Beck in 1936)
   (Continued from Green City quadrangle; see line 1.)

   T. 66 N., R. 18 W., in SE 1/4 sec. 21, on SE. wing wall of iron bridge;
   chiseled square
   Feet
   895.69

   T. 66 N., R. 18 W., near center sec. 22, 53 ft. N. and 24 ft. E. from
   T-rd. W., in W. side of telephone pole; nails
   1,013.89

   T. 66 N., R. 18 W., on line between secs. 15 and 22, 20 ft. S. and 165 ft.
   E. from T-rd. E., in S. side of telephone pole; nails
   1,037.15

   T. 66 N., R. 18 W., about 0.2 mi. W. of quarter cor. between secs. 14 and
   23, 18 ft. N. and 15 ft. E. from rd. corner W.-NE., in root on W. side
   of 50-in. post-oak tree; copper nail and washer
   1,013.46

   T. 66 N., R. 18 W., on line between secs. 13 and 14, 15 ft. S. and 30 ft.
   E. from T-rd. E., on head wall of culvert; chiseled square
   1,001.65

   T. 66 N., R. 18 W., near center of SW 1/4 sec. 15, 20 ft. S. and 15 ft. E.
   from T-rd. S.; iron post stamped "Prim Trav Sta No 12 1910 Mo"
   1,001.799

   T. 66 N., R. 18 W., in NE 1/4 sec. 13, on SW. wing wall of bridge over
   Sandy Creek; chiseled square
   885.76

   SW., in W. side of telephone pole; nails
   1,003.84

   T. 66 N., R. 17 W., in N 1/2 sec. 16, 30 ft. S. and 140 ft. E. from rd.
   forks, in root on W. side of 25-in. burr-oak tree; copper nail and washer
   993.56

   N., in S. side of telephone pole; nails
   975.20

   T. 66 N., R. 17 W., in N 1/2 sec. 17, on NE. abutment of bridge over
   Shoal Creek; chiseled square
   840.99

   T. 66 N., R. 17 W., cor. secs. 8, 9, 16, and 17, 1/2 ft. N. and 18 ft. W.
   from rd. forks, in root on W. side of 10-in. ash tree; copper nail and
   washer
   944.58

   S., in S. side of telephone pole; nails
   980.34

   Omaha, 73 ft. N. and 50 ft. E. from crossroads, in root on S. side of
   24-in. maple tree; copper nail and washer
   996.26

   T. 66 N., R. 17 W., 0.2 mi. W. of cor. secs. 14, 15, 22, and 23, 38 ft.
   N. and 16 ft. E. from crossroads, in concrete post; standard tablet
   stamped "2 C B 1936"
   1,002.573

   T. 66 N., R. 17 W., cor. secs. 12, 13, 25, and 26, 16 ft. N. and 12 ft.
   E. from junction of abandoned rd. N., in root on S. side of 24-in.
   cottonwood tree; copper nail and washer
   873.23

   T. 66 N., R. 17 W., in NW 1/4 sec. 24, on N. corner of NE. iron wing
   wall of bridge; chiseled cross
   852.81
   (Continued in Moulton quadrangle; see line 1.)


   Mendota, 1.1 mi. W. of Chicago, Burlington & Quincy R.R. sta., 30 ft. S.
   and 60 ft. W. from SW. corner of brick dwelling, in S. side of 8-in.
   walnut tree; copper nail and washer
   880.457

   The greater part of this quadrangle lies in Iowa.

2. FROM MENDEOTA WEST ALONG IOWA-MISSOURI STATE LINE TO SEC. 26,
   T. 67 N., R. 19 W. (by Cornish Beck in 1936)

   (Continued in Moulton quadrangle; see line 1.)
PART 6, NORTHEASTERN MISSOURI, 1896-1938

3. FROM MENDOTA EAST ALONG IOWA-MISSOURI STATE LINE INTO MOULTON QUADRANGLE (by Cornish Beck in 1936)

T. 67 N., R. 18 W., in NE 1/4 sec. 27, about 0.7 mi. NE. of Chicago, Burlington & Quincy R.R. sta. at Mendota, 28 ft. N. of rd. fork SW., in concrete post; standard tablet stamped "T T 67 J J 1936" 993.08
T. 67 N., R. 18 W., in SW 1/4 sec. 23, 20 ft. S. and 30 ft. E. from SE. corner of bridge over Shoal Creek, in concrete post; copper nail and washer 968.82

(Continued in Moulton quadrangle; see line 2.)


T. 66 N., R. 17 W., in NE 1/4 sec. 19 and 20, 35 ft. S. and 15 ft. E. from T-rd. E., in concrete post; standard tablet stamped "L C B 1936" 995.01
T. 66 N., R. 17 W., in SW 1/4 sec. 20, 12 ft. S. and 15 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 70 J J 1936" 918.62

(Continued in Green City quadrangle; see line 5.)

5. FROM GREEN CITY QUADRANGLE AT SEC. 26, T. 66 N., R. 19 W., NORTH AND WEST INTO SEYMOUR QUADRANGLE AT SEC. 21, T. 67 N., R. 19 W. (By D. R. Stewart in 1936)

T. 66 N., R. 19 W., cor. sees. 23, 24, 25, and 26, on SW. abutment of bridge; chiseled square 918.32
T. 66 N., R. 19 W., quarter cor. between sees. 23 and 24, 25 ft. N. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "L S 1936" 918.32
T. 66 N., R. 19 W., near cor. sees. 11, 12, 13, and 14, on SW. abutment of bridge over Blackbird Creek; chiseled square 925.36
T. 66 N., R. 19 W., near quarter cor. between sees. 11 and 12, 10 ft. S. and 35 ft. W. from T-rd. E., in top of large elm-tree stump; cross nails 965.75
T. 66 N., R. 19 W., near sixteenth cor. between sees. 11 and 12, 25 ft. N. and 25 ft. W. from T-rd. W., in concrete fence post; spike 1,018.88
SPIRIT LEVELING IN MISSOURI

T. 66 N., R. 19 W., quarter cor. between secs. 1 and 2, 12 ft. S. and 20 ft. W. from T-rd. E.; in concrete post; standard tablet stamped "6 S 1936"


T. 66 N., R. 19 W., in S 1/2 sec. 36, on SW. wing wall of bridge over creek; chiseled square

T. 66 N., R. 19 W., W. sixteenth cor. sec. 36, 15 ft. N. and 15 ft. E. from T-rd. S.; on NW. end of concrete head wall of culvert; chiseled square

T. 66 N., R. 19 W., on N. line sec. 25, on Iowa-Mo. State line, 35 ft. N. and 105 ft. E. from T-rd. S.; in root on S. side of 18-in. maple tree; copper nail and washer

(Continued in Seymour quadrangle; see line 2.)

6. FROM SEC. 12, T. 66 N., R. 19 W., EAST TO HOWLAND (by D. R. Stewart in 1936)

T. 66 N., R. 19 W., E. sixteenth cor. sec. 12, 50 ft. N. and 15 ft. E. from crossroads; in root on S. side of large elm tree; copper nail and washer

T. 66 N., R. 18 W., in NW 1/4 sec. 7, in yard of John Richardson, on SE. corner of concrete well platform; chiseled square

U.S.C. & G.S. standard disk stamped "C 10 1930"

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line; Minneapolis, Minn. to Glasgow, Mo.

SEYMOUR QUADRANGLE* (Latitude 40°50'-41°00'; longitude 93°00'-93°15')

Putnam County

R 20 W   R 19 W

1. FROM BOYNTON QUADRANGLE AT SEC. 23, T. 66 N., R. 21 W., NORTHWEST TO IOWA-MISSOURI STATE LINE AT SEC. 28, T. 67 N., R. 21 W. (by D. R. Stewart in 1936)

T. 66 N., R. 21 W., quarter cor. between secs. 15 and 14, 60 ft. N. and 15 ft. E. from T-rd. W.; in root on SW. side of 27-in. cottonwood tree; copper nail and washer

T. 66 N., R. 21 W., near center sec. 14, at crossroads; on NE. corner of concrete porch of Mount Hope Church; chiseled square

T. 66 N., R. 21 W., quarter cor. between secs. 11 and 12, 46 ft. S. and 24 ft. W. from crossroads; in concrete post; standard tablet stamped "m T 59 J J 1936"

T. 66 N., R. 21 W., near W. sixteenth cor. sec. 11, at first bridge S. of T-rd. W.; on E. end of iron cross beam; painted square

T. 66 N., R. 21 W., quarter cor. between secs. 2 and 11, 25 ft. S. and 35 ft. E. from T-rd. E.; in root on NW. side of 12-in. maple tree; copper nail and washer

T. 66 N., R. 21 W., near center sec. 2, 45 ft. N. and 20 ft. W. from T-rd. W.; in root on SW. side of 12-in. hedge tree; bent nails

T. 66 N., R. 21 W., quarter cor. between secs. 2 and 3 (?), 50 ft. S. of T-rd. N.; in root on W. side of hedge-tree stump; copper nail and washer

* The greater part of this quadrangle lies in Iowa.

** Line 3 of Allerton quadrangle includes a portion of this line (see Bull. 898-D, pp. 451-452).
PART 6, NORTHEASTERN MISSOURI, 1896-1958

2. FROM CENTERVILLE QUADRANGLE AT SEC. 24, T. 67 N., R. 19 W., WEST NEAR IOWA-MISSOURI STATE LINE TO SEC. 2, T. 66 N., R. 21 W. (by D. R. Stewart in 1936-37)

(Continued from Centerville quadrangle; see line 5.)

2. FROM CENTERVILLE QUADRANGLE AT SEC. 24, T. 67 N., R. 19 W., WEST NEAR IOWA-MISSOURI STATE LINE TO SEC. 2, T. 66 N., R. 21 W. (by D. R. Stewart in 1936-37)

(Continued from Boynton quadrangle; see line 8.)


(Continued from Boynton quadrangle; see line 8.)
1. FROM GREEN CITY QUADRANGLE 1.8 MILES SOUTH OF UNIONVille SOUTH INTO GREEN CITY QUADRANGLE AT SEC. 11, T. 65 N., R. 19 W. (by F. W. McMillen and J. Rayburn in 1911)

(Continued from Green City quadrangle; see line 2.)

Unionville, 1.8 mi. S. of, opposite dwelling, E. of rd., in root of poplar tree; copper nail
T. 65 N., R. 19 W., cor. secs. 10, 11, 14, and 15, W. of rd., in elm tree; copper nail

(Continued in Green City quadrangle; see line 2.)

2. FROM UNIONVille EAST INTO GREEN CITY QUADRANGLE

(by Cornish Beck in 1936)

U.S.C. & G.S. standard disk stamped "E 10 1930" 1,048.830
Unionville, in W. abutment of N. entrance to courthouse; standard tablet stamped "T T 7/4 J J 1935"
1,067.282

(Continued in Green City quadrangle; see line 4.)

3. FROM SEC. 15, T. 61 N., R. 21 W., SOUTH TO SEC. 15, T. 63 N., R. 21 W. (by D. R. Stewart in 1936)

T. 61 N., R. 21 W., quarter cor. between secs. 15 and 16, 130 ft. S. and 10 ft. E. from T-rd. S., on NE. wing wall of bridge; chiseled square
T-rd. E., W. of rd., in fence post; nail
Bridge over creek, at SE. corner of, on iron sill; chiseled square
T-rd. W., 1/2 ft. S. and 15 ft. E. from, in root on SW. side of 12-in. elm tree; crossed nails
T. 61 N., R. 21 W., center of NE 1/4 sec. 33, 100 ft. N. (?) and 105 ft. S. (?) from T-rd. W., in root on NE. side of 12-in. walnut tree; copper nail and washer
Bridge over West Locust Creek, on first iron beam W. of NE. corner of; chiseled square
T. 61 N., R. 21 W., quarter cor. between secs. 22 and 23, 30 ft. N. and 10 ft. W. from T-rd. W., on NE. 1/4 sec. 3, on SW. wing wall of bridge over creek; chiseled square
T-rd. W., 15 ft. N. and 51 ft. E. from, in root on S. side of small, twin elm tree; crossed nails
T. 63 N., R. 21 W., quarter cor. between secs. 5 and 8, 85 ft. S. and 5 ft. E. from rd. corner E.-S., on E. end of concrete culvert; chiseled square
Harris triangulation sta.; U.S.C. & G.S. standard disk stamped "Harris 1929"
Reference mark 3; U.S.C. & G.S. standard reference disk stamped "Harris No 3 1934."
T-rd. N., 15 ft. N. and 25 ft. W. from, on concrete foundation of corner fence post; chiseled square
T. 65 N., R. 21 W., near cor. secs. 8, 9, 16, and 17, at T-rd. S., on SW. head wall of large, abandoned concrete culvert; chiseled square
T. 65 N., R. 21 W., cor. secs. 15, 17, 20, and 21, 15 ft. W. and 15 ft. W. from crossroads, in root on W. side of large, twin maple tree; copper nail and washer

Published also as line 1 of the Lucerne quadrangle (see Bull. 898-D, pp. 453).
PART 6, NORTHEASTERN MISSOURI, 1896-1958

4. FROM SEC. 10, T. 61 N., R. 21 W., NORTH ALONG WEST BORDER OF QUADRANGLE INTO LUCERNE QUADRANGLE AT SEC. 27, T. 66 N., R. 21 W. (by D. R. Stewart in 1956)*

T. 65 N., R. 21 W., approximate quarter cor. between secs. 10 and 11, 36 ft. S. and 35 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 15 76 J J 1956" (by D. R. Stewart in 1956)

Reference mark, 50 ft. S. and 110 ft. V. from tablet, in root on N. side of large, twin elm tree; copper nail and washer 1,036.20

T. 65 N., R. 21 W., cor. secs. 26, 27, 34, and 35, 10 ft. S. and 35 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 15 76 J J 1956"

Reference mark, 50 ft. S. and 110 ft. V. from tablet, in root on N. side of large, twin elm tree; copper nail and washer 1,036.20

5. FROM POLLOCK EAST TO SEC. 11, T. 64 N., R. 19 W.; THEREIN SOUTH INTO GREEN CITY QUADRANGLE AT SEC. 11, T. 65 N., R. 19 W. (by D. R. Stewart in 1936)

U.S.C. & G.S. standard disk stamped "H 10 1936"

Reference mark, 200 ft. N. and 100 ft. W. from tablet, at cellar, on top of concrete doorway; chiseled square 1,059.20

T. 64 N., R. 19 W., cor. secs. 9, 10, 16, and 17, 50 ft. S. and 15 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 5 5 5 5 1936"

Reference mark, 70 ft. H. and 57 ft. W. from post, on front step of entrance to dwelling; chiseled square 1,059.20

T. 65 N., R. 19 W., cor. secs. 10, 11, 15, 22, 23, 24, 25, 26, and 27, 150 ft. S. and 25 ft. E. from crossroads, on N. end of head wall of concrete culvert; chiseled square 1,059.20

Concrete culvert, on NW. corner of head wall; chiseled square 1,059.20

*Line 2 of Lucerne quadrangle includes a portion of this line (see Bull. 858-D, pp. 653-654).
T. 64 N., R. 19 W., cor. secs. 14, 15, 22, and 23, 75 ft. N. and 55 ft. E. from crossroads, 32 ft. W. of SW. corner of dwelling, in root on NW. side of 19-in. box-elder tree; copper nail and washer 1,052.07

T. 64 N., R. 19 W., quarter cor. between secs. 22 and 23, 50 ft. N. and 45 ft. W. from crossroads, in root on W. side of 19-in. walnut tree; copper nail and washer 1,056.08

T. 65 N., R. 19 W., N. sixteenth cor. between secs. 26 and 27, 35 ft. E. of T-rd. W., 3t/4 ft. S. and 50 ft. W. from dwelling, in concrete post; standard tablet stamped "T 3 S 1936" 966.70

Bridge over East Yellow Creek, on SE. corner of wing wall; chiseled square 1,037.62

T. 61N., R. 19 W., near quarter cor. between secs. 22 and 23, 10 ft. N. and 15 ft. E. from T-rd. W., in root on W. side of twin soft-maple tree; copper nail and washer 1,018.85

T-rd. N., on S. end of iron pipe culvert; (mark not described) 1,020.26

T. 65 N., R. 19 W., W. sixteenth cor. between secs. 26 and 35, 220 ft. W. of T-rd. S., on NE. corner of concrete culvert; chiseled square 1,031.83

T. 61 N., R. 19 W., in E 1/2 sec. 12, at NE. corner of bridge over creek, on iron sill; chiseled square 889.75

T. 65 N., R. 19 W., near E. sixteenth cor. sec. 15, 10 ft. N. and 35 ft. E. from T-rd. S., on N. end of iron pipe culvert; chiseled cross 851.28

T. 65 N., R. 19 W., in SE 1/4 sec. 9, 80 ft. W. of NW. corner of stucco school, in concrete post; standard tablet stamped "T T 53 J J 1936" 1,030.17

T. 65 N., R. 19 W., center sec. 15, 25 ft. N. and 253 ft. E. from T-rd. E., in root on E. side of 18-in. white-oak tree; copper nail and washer 865.21

T. 65 N., R. 20 W., in S 1/2 sec. 10, 10 ft. N. and 35 ft. E. from T-rd. S., on N. end of iron pipe culvert; chiseled cross 851.28

T. 66 N., R. 20 W., in NE 1/4 sec. 9, 100 ft. S. and 25 ft. E. from crossroads; in root on W. side of 12-in. elm tree; copper nail and washer 913.25

T. 66 N., R. 20 W., quarter cor. between secs. 11 and 12, 15 ft. N. and 25 ft. W. from T-rd. S., in root on W. side of 12-in. elm tree; copper nail and washer 948.87

T. 66 N., R. 21 W., center sec. 15, 300 ft. S. and 15 ft. W. from T-rd. W., in root on W. side of 6-trunk maple tree; copper nail and washer 935.05

7. FROM SEC. 3, T. 64 N., R. 19 W., NORTH TO UNIONVILLE
(by D. R. Stewart in 1936)

T. 64 N., R. 20 W., in SE 1/4 SW 1/4 sec. 12, 18 ft. S. and 195 ft. E. from State Highway 5 at E.-W. rd., on S. head wall of concrete culvert; chiseled square 1,051.83


Reference mark, 65 ft. S. and 85 ft. E. from tablet, on E. head wall of concrete culvert; chiseled square 1,024.23

T. 66 N., R. 20 W., in S 1/2 sec. 10, 10 ft. N. and 35 ft. E. from T-rd. S., on W. side of 12-in. white-oak tree; copper nail and washer 851.28

T. 66 N., R. 20 W., in SE 1/4 sec. 9, 80 ft. W. of NW. end of bridge over Locust Creek, in root on E. side of 72-in. elm tree; copper nail and washer 891.70

T. 66 N., R. 20 W., center sec. 9, 100 ft. S. and 25 ft. E. from crossroads; in root on N. side of 12-in. elm tree; copper nail and washer 913.25

T. 66 N., R. 21 W., center sec. 8, 20 ft. N. and 120 ft. E. from T-rd. S., 60 ft. S. of SE. corner of stucco school, in concrete post; standard tablet stamped "T T 53 J J 1936" 1,036.94

T. 66 N., R. 20 W., near E. sixteenth cor. sec. 8, 7 ft. N. and 120 ft. W. from T-rd. S., at NE. corner of bridge over creek; bolt head 923.32

Rd. forks, S. of rd., in telephone pole; nails 985.17

T. 65 N., R. 20 W., in E 1/2 sec. 12, at NE. corner of bridge over creek, on iron sill; chiseled square 809.75

T. 65 N., R. 21 W., quarter cor. between secs. 11 and 12, 15 ft. N. and 25 ft. W. from T-rd. S., in root on W. side of 12-in. elm tree; copper nail and washer 948.87

T-rd. E., 25 ft. S. and 10 ft. W. from T-rd. S., on NW. side of 12-in. black-oak tree; crossed nails 936.95

T. 67 N., R. 21 W., quarter cor. between secs. 14, 15, 300 ft. N. and 15 ft. E. from T-rd. N., in root on W. side of 6-trunk maple tree; copper nail and washer 1,093.05

Putnam-Sullivan county line at N.-S. rd., 50 ft. N. of, on SE. corner of second section of concrete sidewalk W. of gate; chiseled square 966.17

T. 65 N., R. 19 W., cor. secs. 26, 27, 3t/4, and 35, 27 ft. S. and 10 ft. W. from crossroads, in concrete post; standard tablet stamped "5 S 1936" 1,062.67

T. 65 N., R. 19 W., cor. secs. 22, 23, 25, 26, and 27, 10 ft. N. and 30 ft. W. from crossroads, on E. end of N. head wall of concrete culvert; chiseled square 998.15

T. 65 N., R. 19 W., near N. sixteenth cor. between secs. 22 and 23, 15 ft. S. and 55 ft. E. from T-rd. E., in root on W. side of 14-in. elm tree; bent nail 1.064.78

T. 65 N., R. 19 W., cor. secs. 14, 15, 22, and 23, 50 ft. S. and 15 ft. E. from T-rd. W., on S. end of B. head wall of concrete culvert; chiseled square 999.74

T. 66 N., R. 19 W., near W. sixteenth cor. between secs. 31 and 32, 10 ft. N. and 70 ft. E. from T-rd. E., in root on S. side of telephone pole; spike 1,057.62

T. 66 N., R. 20 W., in SW 1/4 sec. 25, 60 ft. S. and 15 ft. E. from T-rd. N., in root on SE. side of 6-ln. white-oak tree; copper nail and washer 1,031.46

T. 66 N., R. 20 W., in SE 1/4 sec. 27, 22 ft. N. and 10 ft. E. from rd. fork SW., in concrete post; standard tablet stamped "Prim Trav Sta No 17 L S 1913 Mo" 977.82

9. FROM GREEN CITY QUADRANGLE AT SEC. 23, T. 63 N., R. 19 W., WEST TO SEC. 22, T. 63 N., R. 21 W. (by W. V. Kennedy in 1936)

Junction of private rd. W., on W. head wall of concrete culvert; chiseled square 997.94

T. 65 N., R. 19 W., quarter cor. between secs. 16 and 17, 10 ft. S. and 15 ft. W. from State Highway 6 at rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 19 L S 1913 Mo" 993.05

T. 65 N., R. 19 W., near E. sixteenth cor. between secs. 14 and 23, 12 ft. S. and 50 ft. W. from State Highway 6 at rd. W., in root on SE. side of iron pipe culvert; chiseled square 992.82
SPIRIT LEVELING IN MISSOURI

T. 63 N., R. 20 W., in SE 1/4 sec. 17, 10 ft. S. and 15 ft. W. from T-rd. S., in root on N. side of white-oak tree; copper nail and washer

T. 63 N., R. 20 W., in SE 1/4 sec. 16, 110 ft. E. from T-rd. S., in root on N. side of white-oak tree; copper nail and washer

T. 63 N., R. 20 W., in SE 1/4 sec. 16, 65 ft. N. and 35 ft. E. from HE. corner of dwelling of L. T. Stroud, in concrete post; standard tablet stamped "2.5 1936"

Reference mark, about 70 ft. SW. of tablet; in root on S. side of twin elm tree; crossed nails


Reference mark, about 70 ft. SW. of tablet; in root on S. side of twin elm tree; crossed nails

T. 63 N., R. 20 W., 15 ft. S. and 700 ft. W. from T-rd. S., in root on N. side of twin elm tree; copper nail and washer

T. 63 N., R. 20 W., 18 ft. S. and 700 ft. W. from T-rd. S., in root on N. side of twin elm tree; copper nail and washer

T. 63 H., R. 20 W., in SE 1/4 sec. 17, 63 ft. N. and 35 ft. E. from T-rd. S., in root on N. side of 24-in. locust tree; crossed nails

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

T. 63 N., R. 21 W., in SE 1/4 sec. 18, 20 ft. N. and 120 ft. E. from T-rd. N.; concrete post; standard tablet stamped "Page 1936"

Reference mark, 65 ft. N. and 20 ft. E. from post, on top of doorway to concrete cellar; chiseled square

10. LINE TO DETERMINE ELEVATION OF PAGE TRIANGULATION STATION

(by H. B. Pyle in 1936)

T. 63 N., R. 19 W., cor. secs. 8, 9, 16, and 17, 125 ft. SE. of T-rd. E., 12 ft. SE. of State Highway 6, on head wall of concrete culvert; chiseled square


Green bridge over drain, in SW. abutment of; crossed nails


For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Minneapolis, Minn. to Chicago, Ill.

MILAN QUADRANGLE

(Latitude 40°00'-40°15'; longitude 93°00'-93°15')

Linn and Sullivan Counties


U.S.C. & G.S. standard disk stamped "O 10 1930"

T. 62 N., R. 20 W., in line between secs. 34 and 35, 20 ft. N. and 40 ft. E. from E. end of bridge over drain, in root on SW. side of 16-in. maple tree; standard tablet stamped "Page 1936"

T. 62 N., R. 20 W., in NW 1/4 sec. 35, 225 ft. N. and 60 ft. E. from rd. fork, 60 ft. S. of farmhouse, in root on SW. side of 16-in. elm tree; copper nail and washer


PART 6, NORTHEASTERN MISSOURI, 1896-1938

T. 62 N., R. 20 W., near W. seventeenth cor. between secs. 29 and 30, 150 ft. H. and 20 ft. W. from rd. forks, in root on N. side of 9-in. post-oak tree; copper nail and washer  956.52

T. 62 N., R. 20 W., on line between secs. 19 and 30, 140 ft. S. of rd. corner N.-E., in root on NW. side of 6-in. elm tree; crossed nails  914.33

T. 62 N., R. 19 W., 0.2 mi. E. of cor. sees. 26, 27, 31, and 32, 100 ft. S. and 100 ft. W. from farmhouse, 20 ft. N. of rd., in root on SW. side of 24-in. locust tree; copper nail and washer  935.50

T. 62 N., R. 19 W., quarter cor. between sees. 25 and 26, 15 ft. N. and 12 ft. E. from T-rd. S., on N. head wall of concrete culvert; chiseled square  1,003.68

T. 65 N., R. 21 W., quarter cor. between sees. 23 and 24, 10 ft. S. and 20 ft. E. from T-rd. N., on S. head wall of concrete culvert; chiseled square  945.32

(Continued in Boynton quadrangle; see line 9.)

3. LINE TO DETERMINE ELEVATION OF MILAN TRIANGULATION STATION NEAR CENTER OF NORTH HALF OF QUADRANGLE (by H. B. Fyle in 1936)

U.S.C. & G.S. standard disk stamped "M 17 1935"  871.671
Milan, 0.4 mi. S. of Quincy, Omahas & Kansas City R.R. sta., at rd. crossing; top of E. rail
Milan triangulation sta.; U.S.C. & G.S. standard disk stamped "Milan Triangulation Station"  856.27
Reference mark 1; U.S.C. & G.S. standard reference disk stamped "Milan No 1 1936"  965.20
Azimuth mark; U.S.C. & G.S. standard reference disk stamped "Milan Art 1936"  965.20
SPIRIT LEVELING IN MISSOURI

1. FROM SEC. 24, T. 62 N., R. 20 W., WEST TO JUNCTION OF STATE HIGHWAYS 5 AND 6, THENCE WEST ALONG STATE HIGHWAY 6 INTO GALT QUADRANGLE (by H. S. Pyle in 1956-57)

T. 62 N., R. 20 W., on line between secs. 27 and 34, 60 ft. S. and 20 ft. W. from rd. at small drain, in root on S. side of 34-in. elm tree;
crossed nails

T. 62 N., R. 20 W., W. sixteenth cor. between secs. 27 and 34, 180 ft. S. and 75 ft. W. from T-rd. S., in root on E. side of 18-in. white-oak tree; copper nail and washer

T. 62 N., R. 20 W., cor. secs. 27, 28, 35, and 34, 300 ft. W. of T-rd. N., in top of cap on S. end of center retaining wall of small wooden bridge;
crossed nails


T. 62 N., R. 20 W., W. sixteenth cor. between secs. 26 and 35, 38 ft. S. and 20 ft. W. from high-way, on S. head wall of concrete culvert; chiseled square

Concrete culvert, 17 ft. S. of highway, on center of S. head wall;
crossed nails

Concrete culvert, 17 ft. E. of highway, on center of S. head wall;
crossed nails

T. 62 N., R. 20 W., W. sixteenth cor. between secs. 28 and 35, 37 ft. S. of highway, on E. head wall of concrete culvert; chiseled square

Concrete culvert, 17 ft. E. of highway, on center of S. head wall;
crossed nails

T. 62 N., R. 20 W., W. sixteenth cor. between secs. 28 and 35, 10 ft. S. and 10 ft. E. from crossroad, in root on N. side of wooden bridge; copper nail and washer

Steel bridge over drain, on NW. side of 18-in. white-oak tree; copper nail and washer

T. 62 N., R. 20 W., E. sixteenth cor. between secs. 28 and 35, 36 ft. E. and 15 ft. S. from T-rd. E., in root on W. side of 34-in. cottonwood tree; copper nail and washer

T. 62 N., R. 20 W., E. sixteenth cor. between secs. 28 and 35, 30 ft. S. and 10 ft. E. from cross-road, in E. head wall of concrete culvert; chiseled square


Steel bridge over drain, on NE. abutment; chiseled square

Tps. 62 and 63 N., R. 21 W., approximate quarter cor. between secs. 1 and 23, 34 ft. S. and 15 ft. E. from T-rd. E., in root on W. side of 34-in. cottonwood tree; copper nail and washer

T. 62 N., R. 21 W., W. sixteenth cor. between secs. 28 and 35, 10 ft. S. and 15 ft. W. from T-rd. N., 15 ft. E. from fence post S. end of concrete culvert; chiseled square

T. 62 N., R. 21 W., E. sixteenth cor. between secs. 28 and 35, 10 ft. S. and 15 ft. W. from T-rd. N., 15 ft. E. from fence post S. end of concrete culvert; chiseled square

Steel bridge over drain, on NE. abutment; chiseled square

Tps. 62 and 63 N., R. 21 W., approximate quarter cor. between secs. 1 and 23, 34 ft. S. and 15 ft. E. from T-rd. E., in root on W. side of 34-in. cottonwood tree; copper nail and washer

Steel bridge over drain, on NW. side of 18-in. white-oak tree; copper nail and washer

T. 62 N., R. 21 W., E. sixteenth cor. between secs. 28 and 35, 36 ft. E. and 15 ft. S. from T-rd. E., in root on W. side of 34-in. cottonwood tree; copper nail and washer

Steel bridge over drain, on NE. abutment; chiseled square

Tps. 62 and 63 N., R. 21 W., approximate quarter cor. between secs. 1 and 23, 34 ft. S. and 15 ft. E. from T-rd. E., in root on W. side of 34-in. cottonwood tree; copper nail and washer

Junction of abandoned rd. E., 180 ft. S. and 10 ft. E. from, in NE. cor-nier of wooden bridge over drain; copper nail

**Published also as lins 2 of the Galt quadrangle (see Bull. 898-D, pp. 157-158).**

Post

828.00

895.21

895.52

956.37

880.87

792.50

795.48

816.016

806.10

817.012

803.92

895.65

824.66

891.72

894.23

904.86

8114.79

951.145

928.81

928.76

911.21

851.15

888.10

851.07

875.13

945.091

866.59

877.01

835.72

*By H. S. Pyle in 1956-57.*
State Highway 6 at crossroad, 30 ft. S. and 10 ft. E. from, on E. head wall of concrete culvert; chiseled square

T. 62 N., R. 21 W., 8 ft. N. and 23 ft. E. from center sec. 33, 250 ft. S. of State Highway 6 at crossroad, E. of rd., in concrete post; standard tablet stamped "772 C W A 1934." 8


T-rd. E., 15 ft. S. and 18 ft. E. from, on S. head wall of concrete culvert; chiseled square

T. 61 N., R. 21 W., 16th cor. between secs. 3 and 4, 12 ft. S. and 85 ft. W. from T-rd. W., in root on N. side of 12-in. wild-cherry tree; copper nail and washer

U.S.C. & G.S. standard disk stamped "L 17 1933." 8

T. 61 N., R. 21 W., on line between secs. 3 and 4, 60 ft. S. and 570 ft. W. from T-rd. W., 35 ft. S. of fence, in root on W. side of 15-in. elm tree; copper nail and washer

T. 61 N., R. 21 W., near quarter cor. between secs. 4 and 9, 15 ft. N. of rd., in root on SW. side of 10-in. elm tree; copper nail and washer

T. 61 N., R. 21 W., 16th cor. between secs. 5 and 8, 30 ft. N. and 25 ft. W. from T-rd. N., in top of hedge stump; copper nail and washer

T. 61 N., R. 21 W., 95 ft. S. and 15 ft. E. from, on E. end of iron pipe culvert; chiseled square


T. 61 N., R. 21 W., 16th cor. between secs. 17 and 18, 300 ft. N. and 70 ft. W. from crossroads, 25 ft. S. of SE. corner of farmhouse, in root on S. side of 16-in. maple tree; copper nail and washer

T. 61 N., R. 21 W., 16th cor. between secs. 16 and 17, 60 ft. S. and 140 ft. W. from T-rd. W., in root on W. side of 30-in. elm tree; copper nail and washer

(Continued in Linneus quadrangle; see line 4.)

T. 60 N., R. 21 W., 25 ft. N. and 20 ft. W. from, 1 ft. above ground, in knot on E. side of corner fence post; crossed nails

T. 60 N., R. 21 W., 16th cor. between secs. 20 and 21, 290 ft. S. and 23 ft. E. from, 0.5 mi. S. of SE. corner of Hamilton Church; chiseled square

T. 60 N., R. 21 W., 16th cor. between secs. 20, 23, 28, and 29, 15 ft. N. and 15 ft. E. from crossroads, on E. end of iron pipe culvert; painted square

T. 61 N., R. 21 W., cor. secs. 28, 29, 32, and 33, 15 ft. N. and 13 ft. W. from crossroads, on W. side of 32-in. elm tree; copper nail and washer

T. 61 N., R. 21 W., 30 ft. E. and 25 ft. W. from, on SW. corner of concrete step in front of Hamilton Church; chiseled square

T. 61 N., R. 21 W., quarter cor. between secs. 20, 21, 290 ft. S. and 23 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 3 F 1921." 8

T. 60 N., R. 19 W., cor. secs. 19, 20, 29, and 30, 25 ft. S. and 30 ft. E. from crossroads, in root on N. side of 26-in. cottonwood tree; copper nail and washer

(Continued from Linneus quadrangle; see line 5.)

T. 60 N., R. 19 W., 30 ft. S. and 15 ft. W. from, on pier at SW. corner of bridge over Yellow Creek, on bolt head; chiseled cross

Tps. 61 and 62 N., R. 19 W., cor. secs. 3, 4, 5, 34, and 100 ft. S. and 10 ft. E. from E. end of iron pipe E. of rd., in farmyard, in root on W. side of 16-in. maple tree; copper nail and washer


*Published also as line 4 of the Gait quadrangle (see Bull. 898-D, p. 159).
SPIRIT LEVELING IN MISSOURI

T. 61 W., R. 19 W., cor. secs. 4, 9, and 10, 45 ft. of S.-rd. W., in root on W. side of 16-in. locust tree; copper nail and washer


T. 61 W., R. 19 W., cor. secs. 10, 11, 14, and 15, 100 ft. S. of S.-rd. NW., 20 ft. N. of rd., in root on N. side of 10-in. cedar tree; copper nail and washer

(Continued in Winigan quadrangle; see line 7.)

For additional level lines along Chicago, Burlington & Quincy R.R. and Quinnc, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order lines, Minnesota, Minn. to Glasgow, Mo.; Quincy, Ill. to Milan, Mo.; and Milan, Mo. to Hamburg, Iowa.

LINNEUS QUADRANGLE

(Latitude 39°45'-'40°00'; longitude 95°00'-95°15')

Linn County

1. FROM CHULA QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILWAY BY WAY OF LACLEDE AND BROOKFIELD INTO BROOKLIN QUADRANGLE (by S. H. Archer in 1920)

T. 57 N., R. 21 W., in sec. 3, on top of S. end of parapet wall of E. abutment of bridge 112.99; chiseled square *

T. 57 N., R. 21 W., about 660 ft. N. of quarter cor. between secs. 2 and 3, in top of S. end of W. concrete pier of bridge 112.60 over Lacleed Creek; standard tablet stamped "1920 Mo 6914."

T. 57 N., R. 21 W., in sec. 2, on top of S. end of parapet wall of E. abutment of bridge 112.12; chiseled square

T. 57 N., R. 21 W., in sec. 2, on top of S. end of parapet wall of E. abutment of bridge 111.70; chiseled square

T. 57 N., R. 21 W., in sec. 1, on top of N. end of parapet wall of E. abutment of bridge 111.20 over Muddy Creek; chiseled square

T. 57 N., R. 21 W., 115 ft. W. of S. quarter cor. sec. 1, in fence line N. of R.R., in root on S. side of 2l-in. locust tree; copper nail and washer

T. 57 N., R. 20 W., near center sec. 6, N. of R.R., on top of N. end of 75-in. concrete pipe culvert; chiseled square

Lacleed, in SE. corner of park, 15 ft. N. and 45 ft. W. from rd. crossing; iron post stamped "Prim Trav Sta No 15 F 1920."

Lacleed, SW. corner of main track at rd. crossing; top of rail

T. 57 N., R. 20 W., near W. sixteenth cor. sec. 4, 250 ft. W. of dwelling, on top of S. end of wall of concrete culvert; chiseled square

T. 57 N., R. 20 W., in sec. 4, on top of S. end of parapet wall of E. abutment of bridge 107.84 over Turkey Creek; chiseled square

T. 57 N., R. 20 W., near W. sixteenth cor. sec. 3, S. of R.R., in field, in root on W. side of 2l-in. oak tree; copper nail and washer

T. 57 N., R. 20 W., in E 1/2 sec. 5, 4l5 ft. W. of rd. bridge over Little Turkey Creek; 20 ft. S. of rd. in line with W. end of R.R. stone arch bridge over creek, in fence line; iron post stamped "Prim Trav Sta No 114 F 19214. 1920 Mo 755."

T. 57 N., R. 20 W., near quarter cor. between secs. 1 and 2, N. of R.R., on top of SE. corner of E. concrete base of steel support to overhead rd. bridge; chiseled square

Brookfield, at SW. corner of Pennsylvania Avenue crossing, on top of SE. corner of concrete base of electric warning bell; chiseled square

Brookfield, E. of sta., at Main Street crossing; top of N. rail

Brookfield, 5 ft. N. of SE. corner of R.R. ice house; top of concrete base of wooden support to platform

*Published in Chula quadrangle; see Bull. 898-D. p. 161).
Brookfield, W. of S. entrance to post office, in top of S. end of base of lamp post; standard tablet stamped "Prim Trav Sta No 19 F 1924, 1920 No 765".
Brookfield, 0.5 mi. E. of intersection of Main and John Streets, 6 ft. N. of flagpole; iron post stamped "Prim Trav Sta No 19 F 1924, 1920 No 702".

PART 6, NORTHEASTERN MISSOURI, 1896-1938

T. 57 N., R. 19 W., in sec. 5, on top of N. end of parapet wall of abutment of bridge 102.99; chiseled square.

T. 57 N., R. 19 W., near quarter cor. between secs. 4 and 5, on top of N. end of abutment of bridge 102.60 over Yellow Creek; chiseled square.

T. 57 N., R. 19 W., in NW 1/4 sec. 3, on top of S. end of concrete pipe culvert; chiseled square.

T. 57 N., R. 19 W., in NW 1/4 sec. 2, overhead highway bridge 100.54, at root of bent 6 ft. N. of track, in top of S. end of 12- by 12-in. timber set in top of piling; copper nail and washer.

(Continued in Bucklin quadrangle; see line 1.)

2. FROM SEC. 19, T. 60 N., R. 20 W., SOUTH ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD AND STATE HIGHWAY 5 TO PURDIN

(continued from Milan quadrangle; see line 6.)

T. 60 N., R. 21 W., near N. sixteenth cor. sec. 36, 15 ft. N. of rd., in SE. corner of farmyard of J. W. Bleadoe, in root on S. side of 36-in. elm tree; copper nail and washer.

T. 60 N., R. 21 W., in NW 1/4 sec. 36, on SE. corner of bridge over Locust Creek; painted square.

T. 60 N., R. 21 W., near w. sixteenth cor. between secs. 25 and 36, 125 ft. E. of R. R., on SE. pier of bridge over West Locust Creek; painted square.

T. 60 N., R. 21 W., near sixteenth cor. sec. 35, 55 ft. N. of rd., in barnyard of Ernest Kuhlenbeck, on concrete base of wall; painted square.

T. 60 N., R. 21 W., near center sec. 34, 45 ft. N. and 25 ft. E. from T-rd. E., in top of 24-in. elm-tree stump; copper nail and washer.

T. 60 N., R. 21 W., quarter cor. between secs. 27 and 31, 50 ft. N. and 20 ft. W. from crossroads, in root on S. side of 16-in. elm-tree stump; copper nail and washer.

T. 60 N., R. 21 W., cor. secs. 27, 28, 31, and 34, 30 ft. S. and 35 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 31 3 1921 Mo".

(Continued in Galt quadrangle; see line 1.)

T. 60 N., R. 21 W., near N. sixteenth cor. sec. 31, 15 ft. N. of rd., in SE. corner of farmyard of H. L. Benskin, in root on W. side of 26-in. cottonwood tree; crossed nails.


60 N., R. 20 W., near cor. secs. 28, 29, 32, and 33, 25 ft. N. of fence, 40 ft. N. of rd., in root on W. side of 40-in. oak tree; copper nail and washer

60 N., R. 20 W., on line between secs. 28 and 33, 10 ft. S. of rd., under top SW. end of bridge over drain; crossed nails

60 N., R. 20 W., cor. secs. 27, 28, 33, and 34, 20 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 17 F 1926" 886.110

60 N., R. 20 W., near cor. secs. 25, 26, 27, 35, 130 ft. S. and 140 ft. W. from T-rd. W., in root on N. side of 40-in. elm tree; copper nail and washer

60 N., R. 20 W., near cor. secs. 26, 27, 35, and 36, 140 ft. N. and 24 ft. W. from T-rd. W., in root on SE. side of 24-in. elm tree; copper nail and washer 882.86

60 N., R. 20 W., S. sixteenth cor. between secs. 25 and 26, 175 ft. S. and 12 ft. W. from T-rd. E., in SW. corner of bridge; crossed nails

60 N., R. 20 W., quarter cor. between secs. 25 and 26, 130 ft. S. and 140 ft. W. from T-rd. W., in root on N. side of twin 20-in. black-locust tree; copper nail and washer

60 N., R. 19 W., cor. secs. 20, 21, 28, and 29, 170 ft. E. of T-rd. S., 50 ft. N. of rd.; on concrete well platform; chiseled square

60 N., R. 19 W., cor. secs. 21, 22, 27, and 28, 50 ft. S. and 30 ft. W. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 17 F 1926" 886.971


60 N., R. 19 W., cor. secs. 1, 3, 10, and 11, 25 ft. S. and 30 ft. W. from County Route C at crossroad; concrete post; standard tablet stamped "Prim Trav Sta No 49 & 1921 No." 882.812

60 N., R. 19 W., cor. secs. 27, 28, 33, and 34, 20 ft. S. and 80 ft. E. from crossroads, in root on W. side of large maple tree; copper nail and washer 923.79

60 N., R. 19 W., cor. secs. 3, 4, 9, and 10, 700 ft. S. of Sec. 3, 140 ft. S. of line of County Routes C and V, 25 ft. N. of rd., in root on S. side of 26-in. elm tree; copper nail and washer 925.94


Linneus, in SW. corner of courthouse yard, 10 ft. E. of sidewalk, in concrete post; standard tablet stamped "Prim Trav Sta No 17 F 1926" 837.187

Linneus, 0.5 mi. W. of, opposite County Home, in root on S. side of 10-in. cedar tree; crossed nails 788.25

Linneus, 1.5 mi. W. of, at E. end of bridge, on top of bolt head on SE. pier; chiseled cross 715.57

59 N., R. 21 W., N. sixteenth cor. between sees. 32 and 33, 300 ft. E. of N. end of 100-ft. N.-S. jog in crossroads, 20 ft. N. of rd.; in corner of farmyard, in root on W. side of 20-in. black-locust tree; copper nail and washer 831.95

59 N., R. 21 W., cor. secs. 1, 3, 10, and 11, 15 ft. S. and 30 ft. W. from T-rd. N., in root on N. side of 20-in. locust post; crossed nails 714.774

59 N., R. 21 W., cor. secs. 3, 4, 33, and 34, 15 ft. S. of stone; iron post stamped "Prim Trav Sta No 49 & 1921 No." 801.358

(Continued in Bucklin quadrangle; see line 4.)
8. PROM SEC. 3, T. 58 N., R. 21 W., SOUTH TO SEC. 3, T. 57 N., R. 21 W., INCLUDING THAT PART OF THE LINE IN CHULA QUADRANGLE (by P. Y. Brown in 1937) *

T. 58 N., R. 21 W., N. sixteenth cor. sec. 3, 0 ft. E. of T-rd. N., in root on N. side of 14-in. cottonwood tree; copper nail and washer

T. 58 N., R. 21 W., near quarter cor. between secs. 9 and 10, 20 ft. S. and 20 ft. E. from T-rd. E., in root on W. side of 30-in. mulberry tree; copper nail and washer

T. 58 N., R. 21 W., S. sixteenth cor. between secs. 21 and 22, at SW. corner of bridge, on W. end of steel cross beam; painted square

T. 58 N., R. 21 W., near S. sixteenth cor. between secs. 21 and 22, at SW. corner of bridge, on W. end of steel cross beam; painted square

T. 58 N., R. 21 W., quarter cor. between secs. 20 and 33, 15 ft. S. and 20 ft. W. from T-rd. S., in root on N. side of 14-in. hedge tree; copper nail and washer

T. 58 N., R. 21 W., S. quarter cor. sec. 33, 60 ft. E. of T-rd. N., on S. head wall of concrete culvert; chiseled square

T. 57 N., R. 21 W., N. cor. seea. 3 and 14, 33 ft. S. and 1.5 ft. W. from T-rd. S., in concrete post; standard tablet stamped "A 11 1930"


Linneus, 0.8 mi. E. of, on 400 ft. E. of T-rd. S., 40 ft. N. of rd. at N.-S. fence, in root on W. side of 16-in. hickory tree; copper nail and washer

Linneus, 1.8 mi. E. of, in NE 1/4 sec. 7, T. 58 N., R. 20 W., in concrete well top; chiseled square

Tps. 58 and 59 N., R. 20 W., W. sixteenth cor. between secs. 3, 4, 53, and 54, 25 ft. N. and 30 ft. E. from T-rd. N., in base of corner fence post; spike


Tps. 58 and 59 N., R. 20 W., W. sixteenth cor. between secs. 3 and 54, 15 ft. N. and 15 ft. W. from T-rd. W., in base of corner fence post; spike

Tps. 58 and 59 N., R. 20 W., near cor. seea. 2, 3, 34, and 35, at SE. corner of small bridge, on end of steel beam; painted square

Purdin, 12 ft. SE. of entrance to Bank of Purdin, at NW. corner of Junction of State Highway 5, on curb; chiseled square

Purdin triangulation sta.; U.S.C. & G.S. standard disk stamped "Purdin 1928"

(Continued in Bucklin quadrangle; see line 5.)

10. FROM POINT 0.8 MILE SOUTH OP PURDIN NORTH TO PURDIN, THENCE EAST ABOUT TWO MILES, ALONG COUNTY ROUTE C (by F. Y. Brown in 1937)

U.S.C. & G.S. standard disk stamped "X 10 1930"

Purdin, 12 ft. SE. of entrance to Bank of Purdin, at NW. corner of Prevention of State Highway 5, on curby chiseled square

Purdin, 0.8 mi. E. of, on 60 ft. N. and 45 ft. W. from crossroad, 50 ft. E. of farmhouse, in root on W. side of 22-in. elm tree; copper nail and washer

Purdin triangulation sta.; U.S.C. & G.S. standard disk stamped "Purdin 1928"

* Published also as line 10 of the Chula quadrangle (see Bull. 898-D, p. 16).
SPIRIT LEVELING IN MISSOURI

Reference mark 2; U.S.C. & G.S. standard reference disk stamped "Purdin No 2 1928"

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE AT BROOKFIELD (by W. V. Kennedy in 1937)

U.S.C. & G.S. standard disk stamped "D 120 1935"
Brookfield, 60 ft. N. of intersection of Main and John Streets, 6 ft. N. of flagpole; iron post stamped "Prim Trav Sta No 15 F 1924; 1920 Mo 782"

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY FIRST-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE AT LACLEDE (by W. V. Kennedy in 1937)

U.S.C. & G.S. standard disk stamped "E 11 1930"
Laclede, in SE. corner of park, 18 ft. N. and 3 ft. W. from rd. crossing; iron post stamped "Prim Trav Sta No 15 F 1924"

TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY SECOND-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE MIDWAY BETWEEN LACLEDE AND BROOKFIELD (by W. V. Kennedy in 1937)

U.S.C. & G.S. standard disk stamped "B 120 1935"
T. 57 N., R. 20 W., in E 1/2 sec. 3, 125 ft. W. of rd. bridge over Little Turkey Creek, 20 ft. S. of rd. in line with W. end of R.R. stone arch bridge over creek, in fence line; iron post stamped "Prim Trav Sta No 15 F 1924; 1920 Mo 755"

For additional level lines along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey first-order line, Minneapolis, Minn. to Glasgow, Mo.; and second-order line, Laclede to Macon.

ROTHVILLE QUADRANGLE
(Latitude 39°30'-39°15'; longitude 93°00'-93°15')

Chariton and Linn Counties

1. FROM HALE QUADRANGLE AT SEC. 27, T. 57 N., R. 21 W., EAST AND SOUTH BY WAY OF SUMNER INTO HALE QUADRANGLE AT SEC. 21, T. 56 N., R. 21 W. (by E. B. Perry in 1921)

T. 57 N., R. 21 W., in SW 1/4 sec. 27, on S. side of NE. end of bridge over Locust Creek; top of bolt head
T. 57 N., R. 21 W., near cor. secs. 25, 26, 35, and 36, W. of crossroads, on S. end of concrete culvert; chiseled square
Tps. 56 and 57 N., R. 21 W., cor. secs. 1, 2, 25, 26, 36, 24 ft. W. and 18 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 15 W 1921 Mo"

Reference mark, 109 ft. S. of post, in root of 1½-in. walnut tree; copper nail and washer (reported destroyed in 1933)

(Benchmarks by E.B.Perry reported destroyed. Balance by J.M.Lawson in 1933)

T. 56 N., R. 21 W., cor. secs. 1, 2, 11, and 12, 27 ft. N. and 20 ft. W. from crossroads, in large fence post set in concrete; rail spike
T. 56 N., R. 21 W., about 600 ft. N. of quarter cor. between secs. 11 and 12, about 2 mi. N. and 1.5 mi. E. from Sumner, at crossing of Chicago, Burlington & Quincy R.R.; top of S. rail
T. 56 N., R. 21 W., at cor. secs. 11, 12, 13, and 14, at junction of T-rd. N. (mark not described)
2. FROM SEC. 23, T. 56 N., R. 21 W., SOUTHWEST BY WAY OF SUMNER INTO HALE QUADRANGLE AT SEC. 21, T. 56 N., R. 21 W.  
(by B. A. Barnes in 1936)

T. 56 N., R. 21 W., center sec. 23, 50 ft. N. and 50 ft. W. from County  
road, near SW. sixteenth cor. on E. side of rd., 15 ft. S. and 20 ft. W.  
from concrete culvert on bread; copper nail and washer  
U.S.C. & O.S. standard disk stamped "K 11 1930"  
670.162  
681.544  

Summer, about 1.5 mi. SW. of, on N. end of first pier on E. end of  
Chicago, Burlington & Quincy R.R. bridge over Grand River; standard  
reference mark tablet (set by water-resources branch of U.S.Geol. Survey)  
670.693

3. FROM SUMMER EAST ALONG COUNTY ROUTE E TO SEC. 18, T. 56 N.,  
R. 20 W., THENCE EAST ALONG ROADS TO STATE HIGHWAY 11,  
THENCE SOUTH ALONG STATE HIGHWAY 11 TO CORNER IPS. 55 AND  
56 N., RS. 19 AND 20 W., THENCE EAST ALONG ROADS INTO  
MARCELINE QUADRANGLE AT SEC. 2, T. 55 N., R. 19 W.  
(by F. Y. Brown in 1937)

Sumner, 1 mi. E. of, 35 ft. N. and 15 ft. W. from junction of rd. N.,  
on center of W. head wall of concrete culvert; chiseled square  
670.26  
698.84

T. 56 N., R. 22 W., in sec. 22, 20 ft. N. of highway, 6 ft. W. of  
private farm en entrance, 150 ft. E. of hedge, on W. end of iron culvert;  
painted square  
699.00  
717.57

T. 56 N., Rs. 20 and 21 W., near quarter cor. between secs. 19 and 22,  
30 ft. S. of highway at curve S.-E. and produced rd. N., 95 ft. S.  
of house of R. H. Eiselle, in fence corner, in concrete post;  
standard tablet stamped "Prim Trav Sta Ho 31 F 1921;"  
678.19  
718.99

T. 55 N., R. 20 W., near cor. secs. 16 and 17, 18, 19, and 20, 600 ft. W. of  
crossroad, 15 ft. S. of junction of County Route N, on S. head wall of  
cement culvert; chiseled square  
677.38  
691.21

T. 55 N., R. 20 W., on road, 60 ft. N. of, 15 ft. S. of highway at curve N.-W.,  
on end of iron pipe culvert; (mark not described)  
719.68  
714.11

T. 54 N., R. 21 W., near cor. secs. 16, 17, 18, and 19, 15 ft. S. of  
railroad, 15 ft. W. of S. end of abutment of bridge over drainage  
ditch; chiseled square  
670.50  
700.316

T. 55 N., R. 20 W., near cor. secs. 15, 16, 21, and 22, 130 ft. W. of  
State Highway 11 at rd. W., 20 ft. S. of SE. corner of farmhouse, in  
root on S. side of 20-in. ash tree; copper nail and washer  
671.62  
730.50

T. 56 N., R. 20 W., near cor. secs. 22, 23, 24, 25, 26, 27, 28, and 29,  
15 ft. W. of rd., 15 ft. S. of S. end of abutment of bridge over drainage  
ditch; chiseled square  
T. 56 N., R. 20 W., on road, 60 ft. N. of, 15 ft. S. of highway at curve N.-W.,  
on end of iron pipe culvert; (mark not described)  
718.99  
714.11

T. 56 N., R. 20 W., near cor. secs. 24, 25, 26, 27, 28, 29, 30, 31, 32,  
33, and 34, 60 ft. N. of rd. at crossroad, 15 ft. S. of S. end of  
abutment of bridge over Yellow Creek, on top of E. end of W.  
wing wall of S. abutment; standard tablet (set by water-resources  
branch of U.S.Geol. Survey)  
678.103  
805.998

T. 56 N., R. 20 W., near cor. secs. 22, 23, 24, 25, 26, 27, 28, 29,  
30, 31, 32, and 33, 15 ft. S. of rd. at entrance to farmhouse of B. E. Smith, in  
concrete post; painted square  
775.19  
771.41

T. 56 N., R. 19 W., 20 ft. S. and 30 ft. W. from crossroad, in concrete post;  
painted square  
795.17  
795.17

T. 56 N., R. 19 W., on line between secs. 6, 7, and 31, 20 ft. S. of  
railroad, 15 ft. S. of W. side of 22-in. elm tree; copper nail and washer  
793.47  
793.47

T. 56 N., R. 19 W., on line between secs. 6, 7, and 31, 20 ft. S. of  
railroad, 15 ft. S. of W. side of 22-in. elm tree; copper nail and washer  
793.47  
793.47

T. 56 N., R. 19 W., 20 ft. S. and 30 ft. W. from crossroad, in concrete post;  
painted square  
795.17  
795.17

T. 56 N., R. 19 W., in NE 1/4 sec. 3, 10 ft. N. and 40 ft. E. from NW.  
corner of farmhouse of L. F. Parks, 15 ft. S. of rd., in fence line, in  
concrete post; standard tablet stamped "18 B 1937;"  
857.119
SPIRIT LEVELING IN MISSOURI

Tps. 55 and 56 N., R. 19 W., on line between secs. 2 and 35, 8 ft. N. of rd., on SW. corner of W. end of N. head wall of concrete culvert; chiseled square

(Continued in Marceline quadrangle; see line 2.)

For additional level lines along Chicago, Burlington & Quincy R.R., and Wabash Ry., refer to United States Coast and Geodetic Survey first-order line, Minneapolis, Minn. to Glasgow, Mo.; and second-order line, Gallatin to Sumner.

HANNIBAL QUADRANGLE

(Latitude 39°30'-39°30'; longitude 91°15'-91°30')

Marion, Pike, and Ralls Counties

1. ISOLATED BENCHMARKS (not shown on diagram) (by H. V. Rees in 1901-02)

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Notes</th>
<th>Level (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withers Mill, in NE. corner of Chicago, Burlington &amp; Quincy R.R. sta. platform; copper nail</td>
<td></td>
<td>607.50</td>
</tr>
<tr>
<td>Bear Creek, in SE. corner of Chicago, Burlington &amp; Quincy R.R. sta. platform; copper nail</td>
<td></td>
<td>587.00</td>
</tr>
<tr>
<td>Oakwood, in SE. corner of Chicago, Burlington &amp; Quincy R.R. sta. platform; copper nail</td>
<td></td>
<td>520.52</td>
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<tr>
<td>U.S.C.E. B.M. designated &quot;16&quot;</td>
<td></td>
<td>489.067</td>
</tr>
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</table>

2. FROM HANNIBAL NORTHWEST TO SEC. 19, T. 57 N., R. 4 W., THENCE NORTHWEST ALONG U.S. HIGHWAY 61 INTO MONROE CITY QUADRANGLE

(by E. A. Barnes in 1935)

<table>
<thead>
<tr>
<th>Location</th>
<th>Notes</th>
<th>Level (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.C. &amp; G.S. standard disk stamped &quot;C 135 1935&quot;</td>
<td></td>
<td>472.34</td>
</tr>
<tr>
<td>Hannibal, S. of intersection of North and Bridge Streets, on N. edge of sidewalk; chiseled square</td>
<td></td>
<td>471.05</td>
</tr>
<tr>
<td>Hannibal, in NE. part of, intersection of North Third Street, Mark Twain Avenue, and W. approach to bridge over Mississippi River, 10 ft. W. of SW. corner of dwelling, 2 ft. W. of sidewalk, on NE. curb; chiseled square</td>
<td></td>
<td>493.29</td>
</tr>
<tr>
<td>Mark Twain Avenue and Section Street, NE. of intersection, on curb; painted square</td>
<td></td>
<td>559.44</td>
</tr>
<tr>
<td>Hannibal, at 1666 Mark Twain Avenue, on W. end of lower step of concrete stairway leading to brick dwelling of David L. Stewart; chiseled square</td>
<td></td>
<td>668.90</td>
</tr>
<tr>
<td>Top of hill, opposite NE. corner of cemetery, on curb; painted square Hannibal, at entrance to Hannibal-La Grange College, 25 ft. N. and 25 ft. E. from crossroad, on concrete curb; chiseled square</td>
<td></td>
<td>730.851</td>
</tr>
<tr>
<td>T. 57 N., R. 4 W., cor. secs. 15, 18, 19, and 21, 30 ft. S. and 12 ft. W. from junction of rd. N., 10 ft. N. and 12 ft. W. from cut stone driveway entrance, in concrete post; standard tablet stamped &quot;U.S.C &amp; G.S. 1933&quot;</td>
<td></td>
<td>708.84</td>
</tr>
<tr>
<td>T. 57 N., R. 5 W., near quarter cor. between secs. 11 and 23, at junction of rd. SW. on E. edge of tile culvert; painted square Hannibal, about 1,1 mi. NW. of, 150 ft. W. of double telephone line N-S., on NW. corner of sidewalk to dwelling of L. W. Smith; chiseled square T. 57 N., R. 5 W., near quarter cor. between secs. 14 and 25, at junction of rd. SW. on E. edge of tile culvert; painted square T. 57 N., R. 5 W., in SW 1/4 sec. 14, at junction of rd. S.; surface of highway</td>
<td></td>
<td>692.583</td>
</tr>
</tbody>
</table>

*Part of this quadrangle lies in Illinois.
Hannibal, about 5.3 mi. NW. of, near line between secs. 34 and 35, T. 57 N., R. 5 W., lit. ft. W. of nail box of Doris Minor, 17 ft. S. and 45 ft. W. from junction of rd. SW., in fence corner, in root of 20-in. wild-cherry tree; copper nail and washer

P. 57 N., R. 5 W., cor. secs. 9, 10, 15, and 16, lit. ft. S. and 50 ft. W. from K.-S. crossing, 15 ft. W. of Mount Zion Church, in concrete post; standard tablet stamped \["K246 C W A 1935"]

Top of hill; surface of highway

T. 57 N., R. 5 W., near E. sixteenth cor. between secs. 9 and 17, 50 ft. S. of highway, 15 ft. E. of rd. S., on concrete base of corner fence post; chiseled square

T. 57 N., R. 5 W., in SW 1/4 sec. 8, 20 ft. N. of highway, on W. side of rd. N. to farmhouse of W. C. Stewart, on concrete retaining wall; chiseled square

(Continued in Monroe City quadrangle; see line 3.)

3. FROM MONROE CITY QUADRANGLE AT SEC. 31, T. 57 N., R. 5 W., SOUTH TO WABASH RAILWAY, THENCE EAST ALONG RAILROAD TO SEC. 35, T. 57 N., R. 5 W., THENCE NORTH TO U.S. HIGHWAY 61, THENCE EAST ALONG U.S. HIGHWAY 61 TO HANNIBAL, THENCE SOUTH ALONG U.S. HIGHWAY 61 TO NEW LONDON, THENCE SOUTHWEST ALONG STATE HIGHWAY 29 INTO MONROE CITY QUADRANGLE

(Continued from Monroe City quadrangle; see line 3.)


(For balance in Monroe City quadrangle, see line 3.)


T. 57 N., R. 5 W., near quarter cor. between secs. 32 and 33, at junction of rd. E., on NE. corner of bottom concrete step to W. door on N. side of hill top Inn; chiseled square

T. 57 N., R. 5 W., in SW 1/4 sec. 28, on NW. wing wall of bridge over Bear Creek; chiseled square

T. 57 N., R. 5 W., in SE 1/4 sec. 26, on NW. abutment of bridge over Bear Creek; standard tablet (set by water-resources branch of U.S. Geol. Survey) stamped "P 135 1935"


T. 57 N., R. 5 W., near S. sixteenth cor. sec. 27, W. of crossroad, on W. end of culvert; painted square

T. 57 N., R. 5 W., 370 ft. S. of entrance to Hatch State Experiment Sta., in SE 1/4 sec. 36, 70 ft. S. of entrance to Hatch State Experiment Sta., on center of concrete culvert; chiseled square

Crossroad; surface of highway

Crossroad; surface of highway

Crossroad; surface of highway

Reference mark, 80 ft. N. of tablet, 1 ft. W. of NW. corner of service sta., in concrete driveway; standard tablet

Junction of lane W.; surface of highway

T. 57 N., R. 5 W., in SE 1/4 sec. 36, on line between secs. 30 and 31, near gas pumping sta., at base of fence post, on iron pipe; (mark not described)

T. 56 N., R. 5 W., on SE 1/4 sec. 23, 350 ft. N. of Junction of private rd. E., in W. head wall of concrete culvert; iron pin

T. 56 N., R. 5 W., on SE 1/4 sec. 24, on N. end of concrete base of gasoline pumps; painted square

New London, 2 mi. N. of, in NE 1/4 NW 1/4 sec. 6, T. 56 N., R. 5 W., at bridge, end of pier at N. end of middle steel truss; standard tablet (set by water-resources branch of U.S. Geol. Survey) 503.195

New London, 2 mi. N. of, in NE 1/4 NE 1/4 sec. 6, T. 56 N., R. 5 W., in concrete post; standard tablet stamped "1125 C W A 1934"

New London, 1.2 mi. SW. of, 70 ft. SW. of R.R. crossing, on N. head wall of concrete culvert; (mark not described) 705.69

New London, 1.4 mi. SW. of, at junction of rd. N., on E. head wall of concrete culvert; chiseled square 717.7

New London, 2.5 mi. SW. of, at junction of rd. N., opposite mail box of Roy Laird, on E. end of concrete culvert; chiseled square 715.88

T. 56 N., R. 5 W., in W 1/2 sec. 19, at crossroad, on S. head wall of concrete culvert; painted square 598.25

T. 55 N., R. 5 W., E. sixteenth cor. sec. 15, 36 ft. N. and 225 ft. W. from abandoned farmhouse of Joe Jackson, 10 ft. N. of log barn, in concrete post; chiseled square 620.04

T. 56 N., R. 5 W., in W 1/2 sec. 21, 130 ft. W. of creek, 210 ft. S. from junction of rd. N., in fence corner, in concrete post; chiseled square 678.45

T. 55 N., R. 5 W., in SE 1/4 sec. 22, 12 ft. E. of 8-in. elm tree, in E.-W. fence line; copper nail and washer 701.04

T. 55 N., R. 5 W., in W 1/2 sec. 21, 30 ft. N. of highway, 30 ft. S. of junction of rd. N., in corner, in root of 12-in. maple tree; copper nail and washer 727.43

T. 55 N., R. 5 W., in W 1/2 sec. 21, 30 ft. N. of fence, in corner, in root of 12-in. maple tree; copper nail and washer 733.06

T. 56 N., R. 5 W., in SE 1/4 sec. 28, 210 ft. E. of 8-in. elm tree; copper nail and washer 579.24

T. 56 N., R. 5 W., in SE 1/4 sec. 28, 210 ft. E. of 8-in. elm tree; copper nail and washer 581.15

T. 55 N., R. 5 W., in W 1/2 sec. 15, 38 ft. N. and 225 ft. W. of concrete post; standard tablet stamped "114.26 C W A 1934" 729.14

T. 56 N., R. 5 W., W. sixteenth cor. between secs. 20 and 29, 32 ft. N. and 34 ft. E. from junction of rd. N., 2 ft. N. and 14 ft. E. from log barn, in root of fence, in concrete post; standard tablet stamped "114.28 C W A 1934" 723.615

(Taken from Monroe City quadrangle; see line 4.)

L. FROM SEC. 11, T. 56 N., R. 5 W., SOUTHWEST INTO MONROE CITY QUADRANGLE AT SEC. 6, T. 55 N., R. 5 W. (by B. A. Barnes in 1935)

T. 56 N., R. 5 W., on line between secs. 11 and 12, 95 ft. w. of T-rd. S., on center of S. wing wall of small bridge over creek; chiseled square 626.04

T. 56 N., R. 5 W., in NW 1/4 sec. 11, about half way up long slope, in yard, in fence line, in root of 36-in. oak tree; nail 678.45

T. 56 N., R. 5 W., on line between secs. 11 and 25, 50 ft. S. of E.-W. rd., 12 ft. E. of 8-in. elm tree, in E.-W. fence line; copper nail and washer 701.03

Junction of private lane through field, 15 ft. N. of, in root of 6-in. oak tree; crossed nails 672.65

T. 56 N., R. 5 W., in NE 1/4 SW 1/4 sec. 22, 130 ft. W. of creek, 210 ft. S. of junction of rd. N.; in concrete post; chiseled square 698.25

Log dwelling of Charles Lawson, in front yard of, in root of 10-in. walnut tree; crossed nails 549.96

T. 56 N., R. 5 W., 680 ft. S. of R.R. crossing, on N. head wall of concrete culvert; chiseled square 581.05

T. 56 N., R. 5 W., in N 1/2 sec. 14, at crossroad, on S. head wall of concrete culvert; painted square 599.36

T. 56 N., R. 5 W., in OS 1/2 sec. 14, at crossroad, on S. head wall of concrete culvert; painted square 602.05

T. 56 N., R. 5 W., in NE 1/4 sec. 14, at crossroad, on S. head wall of concrete culvert; chiseled square 687.00

T. 56 N., R. 5 W., in OS 1/2 sec. 14, at crossroad, on S. head wall of concrete culvert; chiseled square 687.00

T. 56 N., R. 5 W., 680 ft. S. of R.R. crossing, on N. head wall of concrete culvert; chiseled square 581.15

T. 56 N., R. 5 W., in NE 1/4 sec. 12, 16 ft. E. of log barn, in root of fence corner, in concrete post; standard tablet stamped "114.26 C W A 1934" 723.615

T. 56 N., R. 5 W., 680 ft. S. of R. E., in root of 12-in. maple tree; copper nail and washer 579.24

T. 56 N., R. 5 W., in SE 1/4 sec. 14, 38 ft. N. and 225 ft. W. of concrete post; standard tablet stamped "114.27 C W A 1934" 729.14

Ely's ford across Salt River, S. of, in root on NW. side of 8-in. willow tree; copper nail 511.05

T. 56 N., R. 5 W., on line between secs. 25 and 28, 60 ft. S. of rd. forks, 25 ft. S. of mail box of W. E. Lennox, in NW. concrete wing wall of small bridge over Sanders Creek; standard tablet 529.84

T. 56 N., R. 5 W., in NE 1/4 sec. 28, 210 ft. E. of 8-in. elm tree; copper nail and washer 573.10

T. 55 N., R. 5 W., near center of NE 1/4 sec. 5, 60 ft. S. of spring branch, 25 ft. W. of N.-S. rd., in root on NE. side of 20-in. oak tree; copper nail and washer 585.10

(Continued in Monroe City quadrangle; see line 4.)
Junction of private rd. NW., at corner fence post; surface of ground

New London, 1.0 mi. E. of, at bridge over Salt River, at first set of

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak

tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

New London, 1.0 mi. E. of, at T-rd. W., in root on N. side of oak
tree; (mark not described)

6. FROM VANDALIA QUADRANGLE AT SEC. 35, T. 55 N., R. 5 W., WEST
INTO MONROE CITY QUADRANGLE AT SEC. 30, T. 55 N., R. 5 W.
(by C. W. Williams in 1935-36)

T. 55 N., R. 5 W., in SE 1/4 NW 1/4 sec. 35, about 500 ft. W. of T-rd. W., on NE. corner of concrete sidewalk to farmhouse of J. B. Laird; chiseled square

T. 55 N., R. 5 W., in SE 1/4 NW 1/4 sec. 35, about 500 ft. W. of T-rd. W., on NE. corner of concrete sidewalk to farmhouse of J. B. Laird; chiseled square

T. 55 N., R. 5 W., in SE 1/4 NW 1/4 sec. 35, about 500 ft. W. of T-rd. W., on NE. corner of concrete sidewalk to farmhouse of J. B. Laird; chiseled square

T. 55 N., R. 5 W., in SE 1/4 NW 1/4 sec. 35, about 500 ft. W. of T-rd. W., on NE. corner of concrete sidewalk to farmhouse of J. B. Laird; chiseled square

T. 55 N., R. 5 W., in SE 1/4 NW 1/4 sec. 35, about 500 ft. W. of T-rd. W., on NE. corner of concrete sidewalk to farmhouse of J. B. Laird; chiseled square

T. 55 N., R. 5 W., in SE 1/4 NW 1/4 sec. 35, about 500 ft. W. of T-rd. W., on NE. corner of concrete sidewalk to farmhouse of J. B. Laird; chiseled square

T. 55 N., R. 5 W., in SE 1/4 NW 1/4 sec. 35, about 500 ft. W. of T-rd. W., on NE. corner of concrete sidewalk to farmhouse of J. B. Laird; chiseled square

T. 55 N., R. 5 W., in SE 1/4 NW 1/4 sec. 35, about 500 ft. W. of T-rd. W., on NE. corner of concrete sidewalk to farmhouse of J. B. Laird; chiseled square

Reference mark, 95 ft. N. and 103 ft. W. from tablet, in root on SW. side of

Farmhouse, 128 ft. w. of f. W. of N. head wall of small bridge; chiseled square

For additional level lines along Mississippi River and Wabash Ry., refer to United States Coast and Geodetic Survey first-order line, Savannah to Grafton, Ill.; and second-order line, Hannibal to Salisbury.
SPIRIT LEVELING IN MISSOURI

BARRY QUADRANGLE

(latitude 39°30'-39°45'; longitude 91°00'-91°15')

Pike and Ralls Counties

FROM HANNIBAL QUADRANGLE AT SEC. 20, T. 56 N., R. 3 W., SOUTHEAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO ASHBURN, THENCE SOUTHWEST INTO BOWLING GREEN QUADRANGLE AT SEC. 51, T. 55 N., R. 2 W. (by C. W. Williams in 1935)

U.S.G.E. B.M. designated "548 R 91" Cap on pipe
Copper bolt 1*60.119

Clarks, 100 ft. SE. of sta., at bridge 110.95 over Fools Creek, at W. corner of NW. pier; W. bolt 1*67.109

U.S.G.E. B.M. designated "550 R 91" Cap on pipe 1*65.79
Copper bolt 1*62.281

Gilberts Island, 1,500 ft. NW. of upstream end of, 1,000 ft. NE. of 200 ft. cliff, 67 ft. SW. of R.R., 15 ft. NW. of semaphore; iron post (U.S.C.S. B.M. designated "90/C") Cap on pipe 1*58.661
Copper bolt 1*56.161

Reference mark, 10 ft. W. of post, in root on SW. side of 40-in. maple tree; copper nail and washer 1*57.02

Hope, 66 ft. N. and 14 ft. W. from semaphore S-108.2, on E. head wall of culvert over Standard Creek; top of concrete post 1*47.36

Busch, about 530 ft. NE. of sta., in NW 1/4 sec. 1, T. 55 N., R. 3 W., 5 ft. W. of R.R., on NW. abutment of bridge 107.05 over Battle Creek; chiseled square 1*42.48

T. 55 N., R. 3 W., in SE 1/4 sec. 2, on SW. corner of signal tower N-106.1; bolt head 1*65.27

La Motte, at rd. crossing (??); top of W. rail 1*60.74

Du Pont Powder Co. pump house, 1,400 ft. SE. of, opposite first wing of dam 19 above Denmark Island, 15 ft. toward SW. bank of river from edge of field in which several large pecan trees grow, 12 ft. back of shore protection; iron post stamped "565 R 89" (U.S.C.S. B.M.) Cap on pipe 1*45.145
Copper bolt (B.M. 565 R 89 is 140 ft. riverward from B.M. 89/3) 1*40.455

Reference mark, 165 ft. W. of post(??), in root on SW. side of 30-in. pecan tree; copper nail and washer 1*45.76

Du Pont Powder Co. pump house, 1,100 ft. SE. of, 1,700 ft. NW. of upstream end of Denmark Island, in middle of field in which several large pecan trees grow; iron post (U.S.C.S. B.M. designated "89/3") Cap on pipe 1*45.77
Copper bolt 1*45.725

Ashburn, about 0.7 mi. NW. of sta., 200 ft. SE. of Du Pont Powder Company's property-line fence, 39 ft. SW. of R.R., 3 ft. S. of blazed O-in. elm tree; iron post (U.S.C.E. B.M. designated "89/4") Cap on pipe 1*46.04
Copper bolt 1*46.975

Reference mark, 3 ft. N. of post, in root on E. side of 12-in. elm tree; copper nail and washer 1*46.06

U.S.G.E. B.M. designated "20"
Copper bolt 1*47.687

Ashburn, at post office, on SE. corner of step; chiseled square 1*55.39
Small bridge, on SE. wing wall; painted square 1*54.61

T. 55 N., R. 3 W., near N. sixteenth cor. sec. 13, on SE. wing wall of small bridge; chiseled square 1*54.85
T. 55 N., R. 3 W., on line between secs. 13 and 14, 50 ft. N. of T-rd. S., in root on SW. side of 30-in. sycamore tree; spike 1*47.68
T. 55 N., R. 3 W., near line between secs. 13 and 14, near top of hill, 20 ft. SE. of Ashburn rd., in root on NE. side of 10-in. white-oak tree; copper nail and washer 1*58.35
T. 55 N., R. 3 W., in SE 1/4 sec. 14, 10 ft. S. of rd., in root on N. side of twin oak tree; nail 1*62.48
T. 55 N., R. 3 W., quarter cor. between secs. 23 and 24, 5 ft. N. and 15 ft. E. from stone at rd. corner N.-W., in concrete post; standard tablet stamped "5 W 1935" 1*48.821
Reference mark, 15 ft. S. and 160 ft. E. from tablet, in root on W. side of 30-in. elm tree; copper nail and washer 1*49.31

The greater part of this quadrangle lies in Illinois.
PART 6, NORTHEASTERN MISSOURI, 1896-1938

2. FROM BUSCH WEST TO SEC. 1, T. 55 N., R. 3 W. (by C. W. Williams in 1935)

Vernon School, on concrete base of E. gatepost; painted square
Busch, 1.1 mi. W. of, along Busch-Hannibal rd., in NW 1/4 sec. 2,
T. 55 N., R. 3 W., 20 ft. S. and 25 ft. W. from rd. corner, in root on E. side of 18-in. elm tree; copper nail and washer
T. 55 N., R. 3 W., in NW 1/4 sec. 3, 49 ft. N. of Busch-Hannibal rd., in front of farmhouse of E. Schindler, in root on SW. side of 18-in. water-oak tree; copper nail and washer
T. 55 N., R. 3 W., in NW 1/4 sec. 5, on N. line of farm of E. Schindler, in root on W. side of 18-in. black-oak tree; nail
T. 55 N., R. 3 W., in NE 1/4 sec. 9, 25 ft. S. of Busch-Hannibal rd., at entrance to farm of T. E. Stanley, in root on S. side of 18-in. maple tree; copper nail and washer
T. 55 N., R. 3 W., in NW 1/4 sec. 5, 1.1 mi. N. of, near small bridge, in root on E. side of 36-in. black-oak tree; nail
T. 55 N., R. 3 W., in NW 1/4 sec. 9, 25 ft. S. and 5 ft. W. from SW. corner of dwelling of E. A. Kietley, in concrete post; standard tablet stamped "W 1935"
T. 55 N., R. 3 W., in NW 1/4 sec. 5, 0.7 mi. SW. of, 195 ft. W. of rd., 55 ft. S. and 33 ft. E. from SE. corner of dwelling of E. A. Kietley, in concrete post; standard tablet stamped "W 1935"
T. 55 N., R. 3 W., in NW 1/4 sec. 5, 0.7 mi. SW. of, 195 ft. W. of rd., 55 ft. S. and 33 ft. E. from SE. corner of dwelling of E. A. Kietley, in concrete post; standard tablet stamped "W 1935"
T. 55 N., R. 3 W., in NW 1/4 sec. 9, 25 ft. S. and 5 ft. W. from SW. corner of dwelling of E. A. Kietley, in concrete post; standard tablet stamped "W 1935"

3. FROM BOWLING GREEN QUADRANGLE AT SEC. 27, T. 55 N., R. 3 W., NORTH TO SEC. 1, T. 55 N., R. 3 W. (by C. W. Williams in 1935)

(Horizontal line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, Savanna to Grafton, Ill.)