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SPIRIT LEVELING IN MISSOURI
PART 6. NORTHEASTERN MISSOURI
1896-1938

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Prepared in cooperation with the
STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
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SPIRIT LEVELING IN MISSOURI

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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 the square root of the length of section in miles.

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

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

*For the results of spirit leveling in Missouri previously published see Triangulation and spirit leveling—Missouri: U. S. Geol. Survey 18th Ann. Rept., pt. 1, pp. 333-337, 1897; Triangulation and spirit leveling—Missouri-Illinois: U. S. Geol. Survey 20th Ann. Rept., pt. 1, pp. 412-413, 1899; Triangulation, primary traverse and spirit leveling—Missouri: U. S. Geol. Survey 21st Ann. Rept., pt. 1, pp. 474-475, 1900; Results of spirit leveling, fiscal year 1900-1901—Missouri, Missouri-Kansas: U. S. Geol. Survey Bull. 185, pp. 107-113, 1901; Results of spirit leveling in Missouri, 1896 to 1919, inclusive: U. S. Geol. Survey Bull. 459, 48 pp., 1911; Results of spirit leveling in Missouri, 1896 to 1914, inclusive: U. S. Geol. Survey Bull. 568, 219 pp., 1915.

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

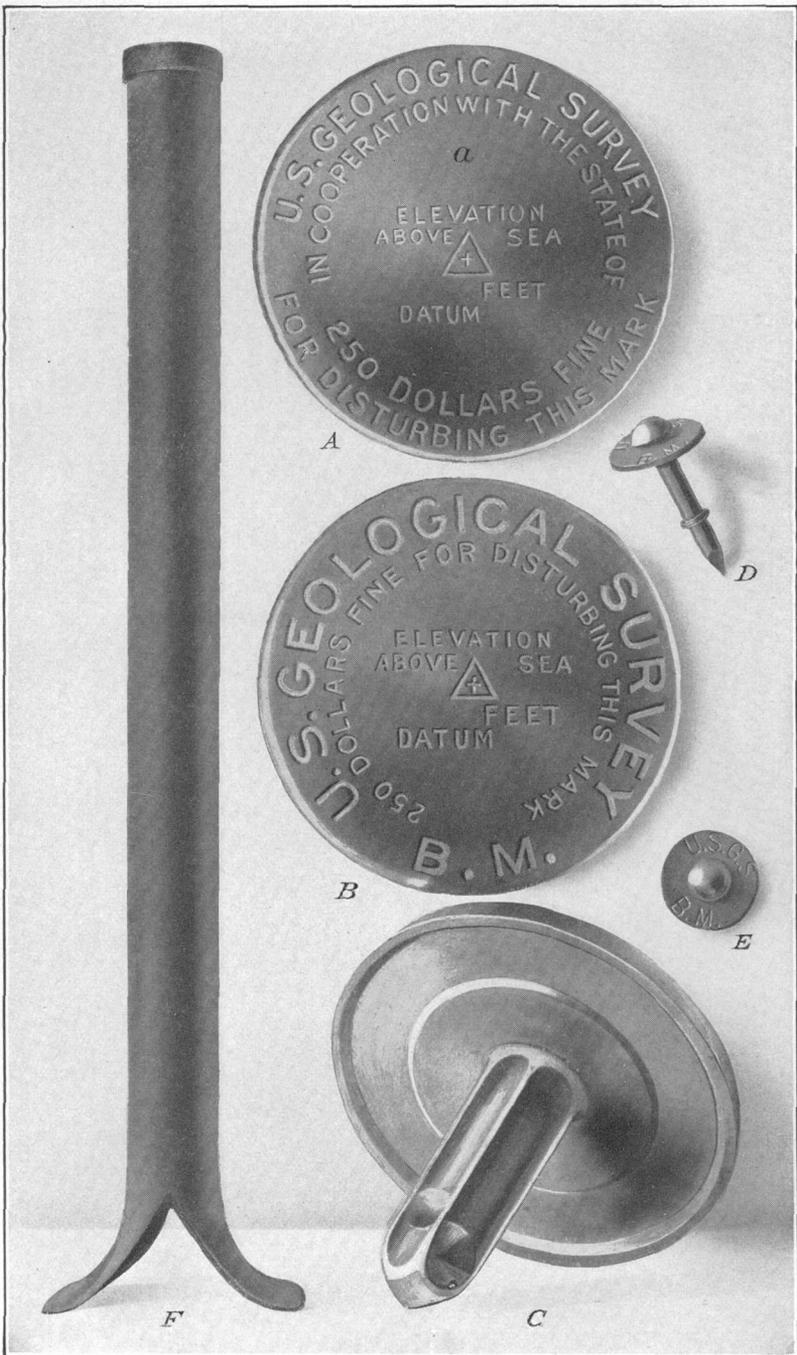
length of circuit in miles. This is equivalent to 0.071 times the square root of the length of section in miles if the line is leveled twice.

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

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

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

The tablets are circular in shape, measure $3\text{-}\frac{7}{8}$ inches in diameter, and taper from a thickness of three-eighths of an inch at the center to about a quarter of an inch near the rounded edge. During a short period in the earlier years of the Survey's leveling the tablets set were made of aluminum. The softness of this metal, however, made them susceptible to damage, so that aluminum as a material for tablets was soon discarded. The earliest tablets set and those now being placed are made of bronze, and bronze is the material now specified for standard tablets. Each tablet is cast with a $\frac{3}{4}$ -inch shank extending from the center of its reverse side, by means of which it is cemented in place, and each bears an inscription on its face. The inscriptions on the tablets already placed differ in many details, because of changes in design at various times. The face of every tablet, however, is cast with the words "U. S. Geological Survey", a cross at the center, which indicates the fiducial point for position or elevation, and the words "Elevation above sea." On some tablets the inscription indicates that they were set in connection with a project in which a State or other organization cooperated; on some the inscription includes a triangle, which signifies a located point, enclosing the cross at the center. Tablets bearing a triangle enclosing a cross may be used not only as benchmarks but also as triangulation- or traverse-station marks.



GEOLOGICAL SURVEY BENCHMARKS.

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

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

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

The figures of elevation that appear on a tablet are usually those determined by field computation only. It is sometimes found, therefore, that they do not represent the latest information. This has happened either because they refer to some independent datum temporarily adopted before first-order trunk lines made standard datum available, or because a later adjustment made in the office has rendered necessary an appreciable change in the figures as determined in the field. 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 $3\frac{1}{2}$ inches in outer diameter and are set about 3 feet in the ground. The bottom of the post spreads out to a width of about 10 inches in order to give it a firm footing in the earth. No iron posts have been set in recent years. They have proved impracticable, as they are easily disturbed and are subject to rust at the ground level, which eventually destroys them.

The third form of principal benchmark, set only in the early leveling, is a copper bolt, designed to be wedged into a drill hole in rock or masonry and perhaps further secured with lead or cement. This bolt measures 4 inches in length and 1 inch in diam-

eter and has a slot at one end into which fits a brass wedge. The wedge serves to expand the bottom end of the bolt, so that after the bolt has been driven to almost its full length into the hole, it cannot be easily removed. The exposed end of the bolt bears an appropriate inscription, stamped upon it with steel dies. This inscription is made up of the letters "U S G S", the letters indicating the datum used, the abbreviated word "Ft.", and the figures of elevation.

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

Preservation and restoration of benchmarks.—Any person who finds that a principal benchmark has been damaged, disturbed, or destroyed or that it should be reset or re-described on account of highway or other improvements will render a public service by communicating the facts to the Director, 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 envelope, will be sent for use in reporting the action taken and in recording the revised description of the mark, if any, and the notes made in obtaining the revised elevation.

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

Location of the area.—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 northeasternmost 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 $93^{\circ}15'$ to latitude $39^{\circ}30'$, thence east to longitude $92^{\circ}00'$, thence south to latitude $39^{\circ}15'$, 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. 41, 1917. *Manual of tide observations*: U.S. Coast and Geodetic Survey Special Pub. 196, 1935.

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.

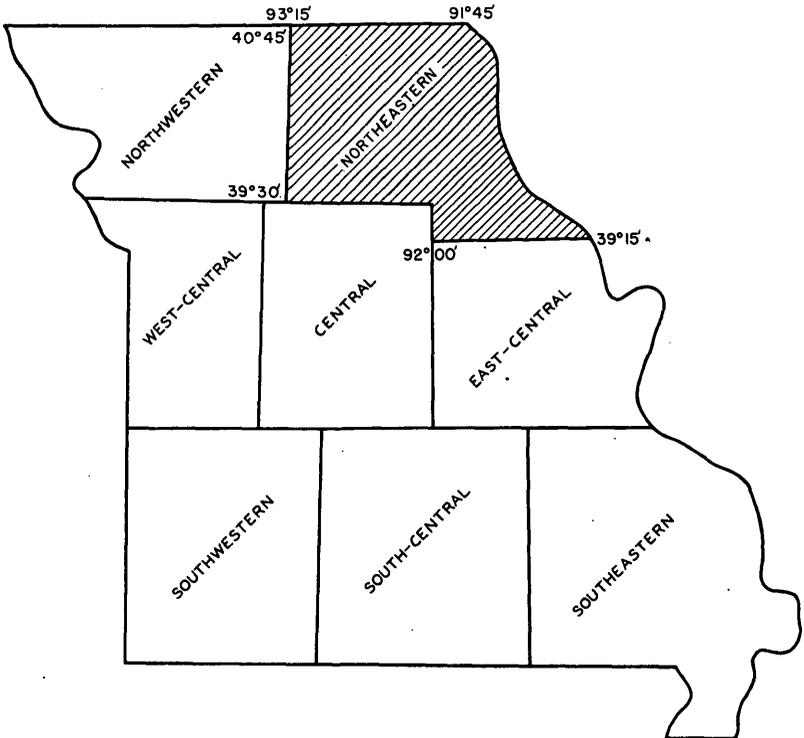
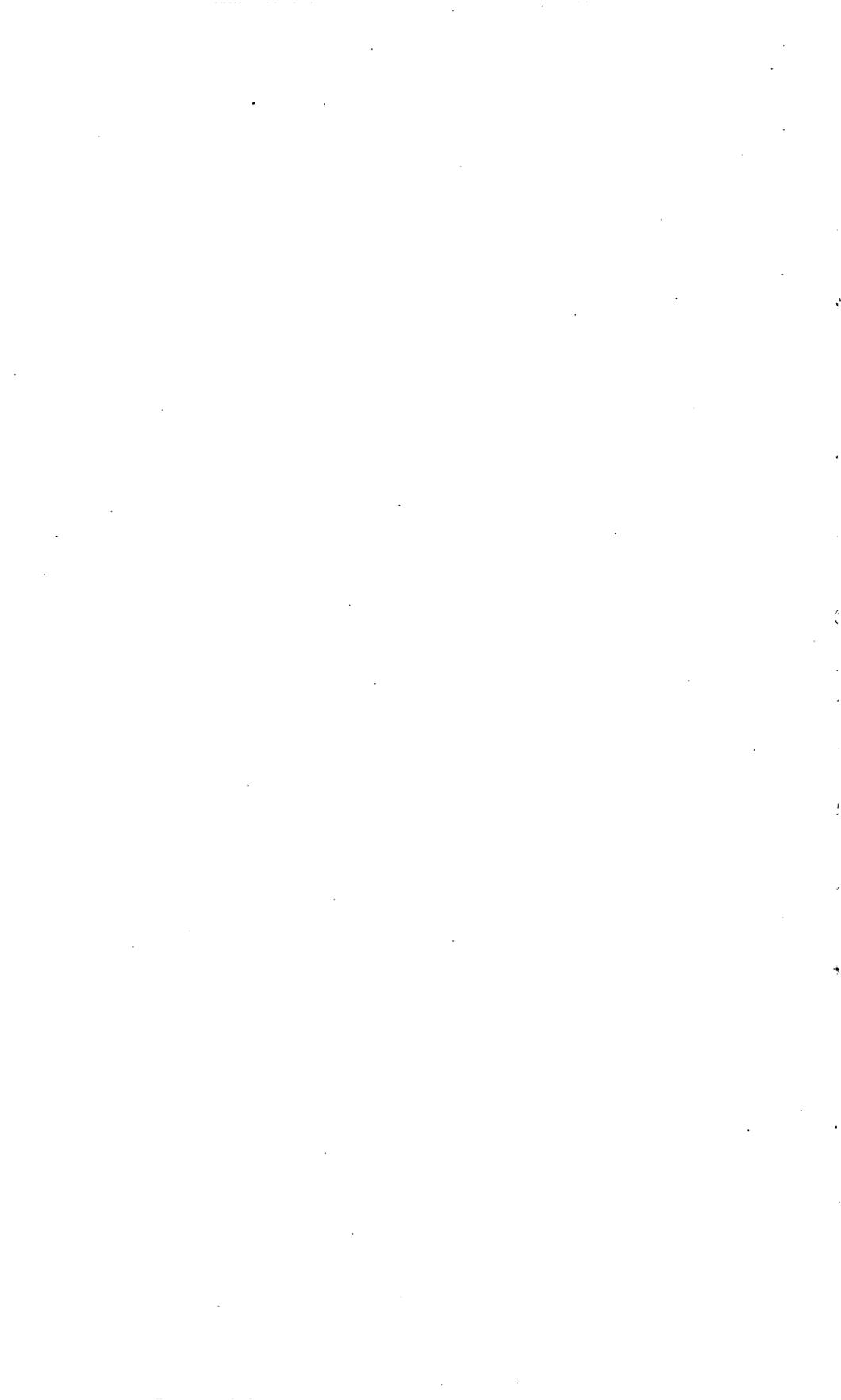


Figure 11.—Outline map of Missouri showing the names and relative position of the eight sections covered by the parts of Bulletin 898, on spirit leveling in the State. The shaded portion represents the section designated as northeastern Missouri.

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.

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

Personnel.—The leveling of the United States Geological Survey in 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. Broadus, 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. Staack, chief topographic engineer.

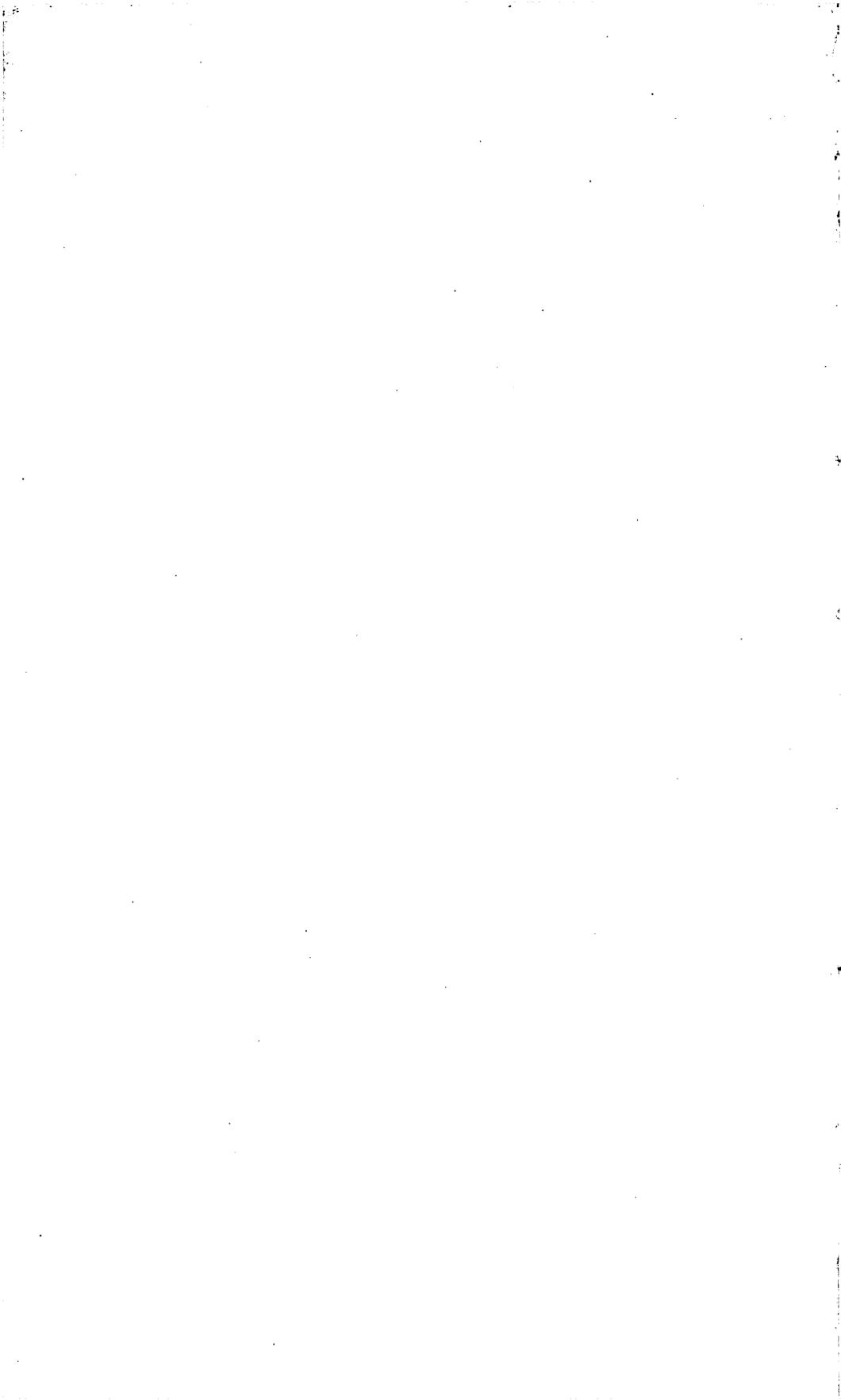


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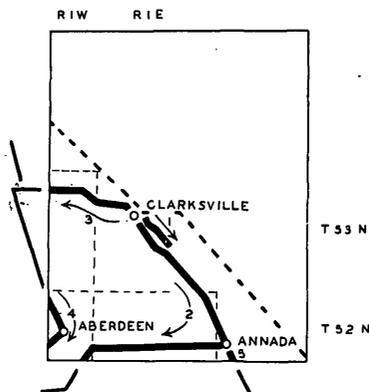
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THIRD-ORDER LEVELING

NEBO QUADRANGLE*
 (Latitude 39°15'-39°30'; longitude 90°45'-91°00')
 Pike County



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

	Feet
U.S.C.E. B.M. designated "26"	
Copper bolt	460.514
Clarksville, about 1 mi. SE. of, along river rd., 25 ft. N. and 25 ft. W. from junction of lane W., on W. side at N. end of head wall of concrete culvert; chiseled square	447.14
Clarksville, about 2 mi. SE. of, along river rd., about 1,000 ft. SE. of junction of lane W., 10 ft. NE. of rd., in root on SW. side of 18-in. oak tree; copper nail and washer	447.15
U.S.C.E. B.M. designated "82/4"	
Top of cap	447.340
Copper bolt	443.290

2. FROM CLARKSVILLE SOUTHEAST ALONG CHICAGO, BURLINGTON & QUINCY 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"	455.699
Clarksville, 1 mi. S. of, 150 ft. S. of T-fence E., 10 ft. E. of track, on NW. corner of concrete base of semaphore; chiseled square	457.31
Clarksville, about 1.8 mi. S. of, 10 ft. W. of track, on SW. concrete abutment of steel bridge; chiseled square	461.96
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. N. of T-fence W., in concrete post; standard tablet stamped "1 L J 1928"	449.189
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	453.38
Kissinger, about 0.5 mi. N. of, on SE. corner of concrete base of semaphore; chiseled square	452.81
Kissinger, at sta., 12 ft. W. of W. track, on concrete base of semaphore; chiseled square	455.43
Kissinger, 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 "2 L J 1928"	459.293
Reference mark, at NW. corner of bridge, on concrete abutment; chiseled square	458.80
Annada, 1.5 mi. NW. of, at crossing of private rd.; top of W. rail	451.4
Annada, 1 mi. NW. of, 240 ft. SE. of N.-S. rd. crossing, 10 ft. E. of track, on NW. corner of concrete base of semaphore; chiseled square	452.58
Annada, 300 ft. S. of sta., 10 ft. W. of W. track, on concrete base of mail pouch crane; chiseled square	454.20
Annada, 1.5 mi. W. of, 25 ft. S. and 20 ft. W. from T-rd. S., in concrete post; standard tablet stamped "T T Sta No 28 F 1928"	494.110
Reference mark, 15 ft. N. and 7 ft. E. from T-rd. N., on concrete base of corner fence post; chiseled square	495.87
Annada, about 2 mi. W. of, 70 ft. N. and 5 ft. W. from crossroads, on W. head wall of concrete culvert; chiseled square	496.34
Paynesville, about 0.7 mi. E. of, 10 ft. N. and 10 ft. W. from junction of private rd. N. to farmhouse, on head wall of concrete culvert; chiseled square	530.91
Paynesville, 15 ft. N. and 20 ft. E. from T-rd. E. to Annada, on head wall of concrete culvert; chiseled square	545.20

* The greater part of this quadrangle lies in Illinois.

	<u>Feet</u>
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 29 F 1928"	564.607
Reference mark, 15 ft. N. and 10 ft. E. from tablet, on head wall of concrete culvert; chiseled square	565.24
Paynesville, about 1.2 mi. W. of, center sec. 20, T. 52 N., R. 1 E., 10 ft. N. and 20 ft. W. from T-rd. N., about 600 ft. W. of creek bed, in root on E. side of 72-in. sycamore tree; copper nail and washer	524.27
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	582.56
Eolia, 1.6 mi. N. and 2.3 mi. E. from, 30 ft. S. and 20 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T Sta No 30 F 1928"	636.733
Eolia, about 2 mi. NE. of, near center of land grant, 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	679.86
Eolia, about 1.5 mi. NE. of, near center of land grant; T. 52 N., R. 1 W., 20 ft. S. of T-rd. NW., 15 ft. E. of T-fence SE., in root on E. side of 18-in. oak tree; copper nail and washer	783.98

3. FROM CLARKSVILLE WEST INTO BOWLING GREEN QUADRANGLE AT SEC. 15, T. 53 N., R. 1 W. (by L. V. Johnson in 1928)

Clarksville, about 1.3 mi. NW. of, along Chicago, Burlington & Quincy R.R., in SW 1/4 sec. 8, T. 53 N., R. 1 E., 8 ft. S. and 100 ft. E. from trestle over Calumet Creek, on concrete abutment of bridge; chiseled square	455.81
Clarksville, about 2 mi. W. of, near quarter cor. between secs. 7 and 18, T. 53 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	469.48
Clarksville, about 2.8 mi. W. of, cor. secs. 7, 12, 13, and 18, T. 53 N., R. 1 E. and 1 W., 20 ft. N. and 70 ft. E. from T-rd. E., on head wall of concrete culvert; chiseled square	518.28
T. 53 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	528.45
Calumet Church, about 3.2 mi. W. of Clarksville; center sec. 11, T. 53 N., R. 1 W., 40 ft. S. and 30 ft. E. from T-rd. E., at NE. corner of fence around church, in concrete post; standard tablet stamped "T T Sta No 39 F 1928"	520.625
Reference mark, 18 ft. S. of tablet, in root on E. side of twin oak tree; copper nail and washer	531.54
T. 53 N., R. 1 W., on line between secs. 10 and 15, about 1.2 mi. E. of Stark, 7 ft. N. and 20 ft. E. from steel bridge over Little Calumet Creek, on concrete wing wall; chiseled square	531.05

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

4. 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	682.84
Aberdeen, 30 ft. N. and 40 ft. W. from crossroads, 3 ft. NW. of fence corner, in concrete post; standard tablet stamped "T T Sta No 42 F 1928"	608.540
Reference mark, 50 ft. N. and 15 ft. E. from crossroads, on concrete base of water pump; chiseled square	609.72
Aberdeen, about 1 mi. S. of, 10 ft. E. of rd., 250 ft. N. of E.-W. fence, on head wall of concrete culvert; chiseled square	668.56

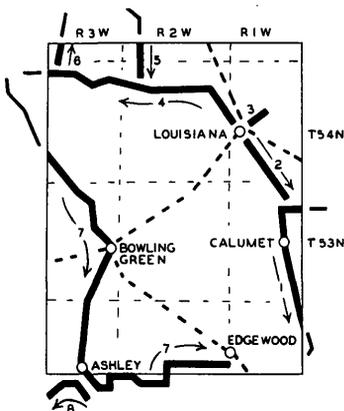
5. FROM ANNADA SOUTH ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO ELSBERRY QUADRANGLE (by L. V. Johnson in 1928)

Annada, about 0.6 mi. SE. of, near SE. cor. sec. 19, T. 52 N., R. 2 E., 30 ft. S. and 25 ft. W. from steel bridge, 2 ft. E. of telephone pole, in concrete post; standard tablet stamped "T T Sta No 3 L J 1928"	452.788
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For an additional level line along Mississippi River, refer to United States Coast and Geodetic Survey first-order line, Savanna to Grafton, Ill.

BOWLING GREEN QUADRANGLE*
(Latitude 39°15'-39°30'; longitude 91°00'-91°15')

Fike County



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 3.)

	<u>Feet</u>
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 T Sta No 40 F 1928"	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 40-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 T Sta No 41 F 1928"	582.108
Reference mark, 150 ft. SE. of tablet, in root on E. side of 48-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.F. B.M. designated "23"	468.198
U.S.C. & G.S. standard disk stamped "D 137 1935"	464.274
U.S.C. & G.S. standard disk stamped "E 137 1935"	471.525
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 40-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 60-in. elm tree; crossed nails	480.41
Louisiana, 2.5 mi. S. of, 50 ft. S. and 30 ft. E. from junction of rd. E., in concrete post; standard tablet stamped "1652 E 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	515.05
Schlieper'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 T Sta No 40 F 1928 647"	646.943
Reference mark, 28 ft. S. and 40 ft. W. from tablet, on base of S. concrete gatepost; chiseled square	648.45

*A small part of this quadrangle lies in Illinois.

3. LINE TO DETERMINE ELEVATION OF WATER-RESOURCES GAGE AT LOUISIANA
(by C. W. Williams in 1934-36)

	Feet
U.S.C.E. B.M. designated "23 A"	480.932
Louisiana, on U.S. Highway 54, in top of right upstream abutment of bridge over Mississippi River; standard tablet (set by water-resources branch of U.S.Geol. Survey)	533.603

4. FROM LOUISIANA NORTH AND WEST ALONG COUNTY ROUTE T TO SEC. 7,
T. 54 N., R. 2 W., THENCE WEST ALONG LOUISIANA-FRANKFORD
ROAD INTO VANDALIA QUADRANGLE AT SEC. 4, T. 54 N., R. 3 W.)
(by C. W. Williams in 1935)

U.S.C. & G.S. standard disk stamped "C 137 1935"	487.643
U.S.C. & G.S. standard disk stamped "B 137 1935"	476.853
Louisiana, Seventh Street at Frankford Road, on W. corner of sidewalk; painted square	544.63
Louisiana, 125 ft. E. of W. city limits, N. of rd., in root on S. side of 30-in. elm tree; copper nail and washer	575.36
Louisiana, 1.5 mi. NW. of, at entrance to dwelling of J. C. McCormack, on floor at S. end of small box culvert; painted square	687.72
Louisiana triangulation sta.; U.S.C. & G.S. standard disk designated "Louisiana 1931"	794.365 784.317
U.S.C. & G.S. standard reference disk designated "Louisiana No 1"	615.65
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. 54 N., R. 2 W., on top of abutment at SW. corner of bridge Z-402 over Dry Fork Creek; chiseled square	482.97
T. 54 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	468.72
Louisiana, 3 mi. NW. of, in NE 1/4 sec. 10, T. 54 N., R. 2 W., 35 ft. N. and 50 ft. E. from junction of rd. N., in concrete post; standard tablet stamped "1833 E R A 1935"	459.597
Reference mark, about 525 ft. N. 70° E. of tablet, at SW. corner of bridge S-904 over Grass Creek, in top of abutment; bolt	465.56
T. 54 N., R. 4 W., in E 1/2 sec. 10, junction of rd. S.; surface of highway	473.5
T. 54 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	478.63
T. 54 N., R. 2 W., near center sec. 9, junction of rd. S.; surface of highway	481.4
T. 54 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, in root on N. side of 30-in. elm tree; crossed nails	416.91
Fairview Church, quarter cor. between secs. 7 and 8, T. 54 N., R. 2 W., 55 ft. N. of junction of rd. S.; 34 ft. SW. of church, in yard, in concrete post; standard tablet stamped "1834 E R A 1935"	601.161
Reference mark, 525 ft. E. of tablet, in root on W. side of 40-in. burr oak tree; copper nail and washer	572.91
T. 54 N., R. 2 W., in sec. 7, in front of dwelling of Jim Travis, 18 ft. S. of rd., in root on NE. side of 24-in. walnut tree; nail	620.71
T. 54 N., R. 2 and 3 W., on line between secs. 7 and 12, 20 ft. N. and 35 ft. E. from junction of rd. at range line, in root on NW. side of 30-in. elm tree; copper nail and washer	627.57
T. 54 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	682.77
T. 54 N., R. 3 W., in W 1/2 sec. 12, 15 ft. N. and 30 ft. W. from T-rd. W., at top of hill, in root on S. side of 12-in. hickory tree; copper nail and washer	755.43
T. 54 N., R. 3 W., in NE 1/4 sec. 11, 40 ft. N. of rd., in root on S. side of 20-in. white-oak tree; nail	688.49
T. 54 N., R. 3 W., in N 1/2 sec. 11, at center of triangle formed by rd. forks; surface of ground	650.7
Sugar Creek Church, in NW 1/4 sec. 11, T. 54 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"	568.388
Reference mark, 200 ft. E. of tablet, in root on SE. side of 20-in. elm tree; copper nail and washer	576.15
T. 54 N., R. 3 W., in sec. 10, on SW. abutment of bridge over Sugar Creek; painted square	541.54
T. 54 N., R. 3 W., in NW 1/4 sec. 10, in front of dwelling of W. T. Johnson, 35 ft. S. of rd., in root on N. side of 24-in. maple tree; copper nail and washer	633.08
T. 54 N., R. 3 W., in SE 1/4 sec. 4, in creek bottom of West Fork of Sugar Creek, 48 ft. N. and 28 ft. W. from junction of rd. N., in root on E. side of 40-in. burr-oak tree; copper nail and washer	534.09
Dwelling of Ed Fisher, in front of, 25 ft. S. of rd., in root on N. side of 30-in. burr-oak tree; nail	539.12

(Continued in Vandalia quadrangle; see line 1.)

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 1935) (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		Feet 459.30
T. 55 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 "5 W 1935"		466.411 465.9
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		463.66
T. 54 N., R. 2 W., N. sixteenth cor. between secs. 5 and 6, County Route T at rd. E.; surface of highway		467.9
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		509.22
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		660.90
6. FROM SEC. 33, T. 55 N., R. 3 W., NORTH INTO BARRY QUADRANGLE AT SEC. 27, T. 55 N., R. 3 W. (by C. W. Williams in 1935)		
T. 55 N., R. 3 W., W. sixteenth cor. on S. line sec. 33, 21 ft. N. and 325 ft. W. from rd. corner N.-W., 21 ft. N. and 110 ft. W. from T-rd. S., in root on NE. side of 42-in. elm tree; copper nail and washer		649.78
T. 55 N., R. 3 W., in sec. 33, 115 ft. S. and 20 ft. W. from T-rd. S., in root on S. side of 36-in. locust tree; copper nail and washer		614.07
T. 55 N., R. 3 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 30-in. elm tree; copper nail and washer		606.96
(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 1934-35 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)		668.131
Bowling Green, 4.4 mi. NW. of, 109 ft. E. of highway, 2 ft. N. and 124 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 26 C 1935"		825.114
Bowling Green, about 3.7 mi. NW. of, 50 ft. S. and 45 ft. E. from junction of rd. W., at entrance to field, on S. end of pipe culvert; painted square		846.26
Crossroad, 50 ft. N. and 10 ft. E. from, on head wall of culvert; chiseled square		882.50
Bowling Green, about 1.9 mi. NW. of, 0.7 mi. NE. of intersection of U.S. Highway 54, 20 ft. N. and 50 ft. E. from crossroad, in corner fence post; nail		890.69
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 1935"		891.886 889.089
U.S.C. & G.S. standard disk stamped "A 137 1935"		
Bowling Green, 1 mi. S. of, 246 ft. S. and 35 ft. E. from junction of County Route A (now State Highway 29), in concrete post; standard tablet stamped "T T 24 C 1935"		868.245
Bowling Green, 1.8 mi. S. of, 20 ft. N. and 30 ft. E. from junction of rd. E., in root on N. side of 24-in. catalpa tree; copper nail and washer		873.23
Junction of rd. W., 45 ft. S. and 40 ft. W. from, in root on SE. side of 40-in. maple tree; nail		830.32
Bowling Green, 2.8 mi. S. of, 7 ft. N. and 21 ft. W. from junction of rd. W., on N. end of concrete pipe culvert; chiseled square		813.18 822.91
Junction of rd. E., 15 ft. N. and 18 ft. W. from, in telephone pole; nail		
St. Clement, 0.4 mi. N. of, 43 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 T 23 C 1935"		810.824
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		799.71
Ashley, at N. limits of, 12 ft. S. and 21 ft. W. from crossroad, on S. end of pipe culvert; painted square		761.19
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 T Sta No 57 F 1928"		729.190
T-rd. SW., 165 ft. SE. of, 18 ft. SW. of rd., on NE. corner of retaining wall; chiseled square		743.85 735.43
Ashley, 1.1 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, 13 ft. S. of rd. NE., in N. side of gatepost; bent nail		761.75
Ashley, about 3.2 mi. SE. of, near probable center sec. 31, T. 52 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 12-in. elm tree; bent nail		629.51

	<u>Feet</u>
Ashley, 3 mi. E. and 1 mi. S. from, in E 1/2 sec. 31, T. 52 N., R. 2 W., 25 ft. N. and 10 ft. E. from T-rd. W., in concrete post; standard tablet stamped "T T No Sta 56 F 1928"	719.960
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	648.41
Pleasant Grove School, 80 ft. S. and 75 ft. W. from SW. corner of, in root on N. side of 26-in. locust tree; bent nail	749.08
T. 52 N., R. 2 W., near cor. secs. 28, 29, 32, and 33, on SE. wing wall of bridge; chiseled square	688.84
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	752.15
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	777.50
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 F 1928"	801.128
Creek at abandoned rd., 5 ft. S. and 60 ft. E. from, in root on S. side of 36-in. elm tree; nail	728.14
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	790.78
Creek, at ford, 15 ft. S. and 15 ft. E. from, in SE. side of 7-in. elm tree; nail	742.74
T. 52 N., R. 2 W., near center sec. 23, 150 ft. N. and 40 ft. W. from rd. fork NE., 15 ft. E. of rd. NW., in root on SE. side of 24-in. white-oak tree; copper nail and washer	829.05
Edgewood, 0.5 mi. S. of, 2.1 mi. SE. of Cyrene, along U.S. Highway 61, 42 ft. N. and 48 ft. E. from crossroad, in concrete post; standard tablet stamped "T T Sta No 54 F 1928"	831.418
U.S.C. & G.S. standard disk stamped "U 136 1935"	821.839

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

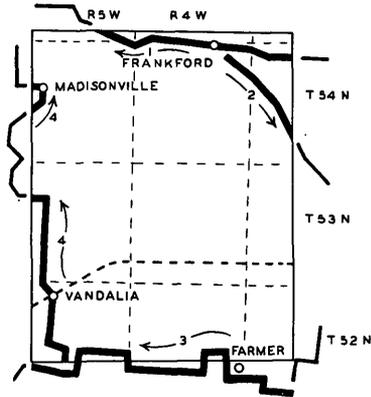
Ashley, 0.8 mi. SW. of, 615 ft. NE. of junction of rd. SE., 40 ft. NW. of highway, 6 ft. NE. of private entrance, on concrete base of gate-post; chiseled square (in Silix quadrangle; see Bull. 898-C, p.445).	716.96
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(Continued in Vandalia quadrangle; 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.

VANDALIA QUADRANGLE
(Latitude 39°15'-39°30'; longitude 91°15'-91°30')

Audrain, Pike, and Ralls Counties



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 14-in. wild-cherry tree; copper nail and washer	Feet 626.26
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 E R A 1935"	635.203
Reference mark, 60 ft. N. and 160 ft. W. from tablet, in root on N. side of 24-in. elm tree; copper nail and washer	633.92
T. 54 N., Rs. 3 and 4 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	539.46
Frankford, 0.5 mi. E. of, on U.S. Highway 61, in NE 1/4 sec. 2, T. 54 N., R. 4 W., 125 ft. S. and 38 ft. E. from junction of Frankford-Louisiana rd., in concrete post; standard tablet stamped "1837 E R A 1935"	630.239
Reference mark, 120 ft. N. of tablet, on N. head wall of concrete culvert; chiseled square	621.79
Frankford, at NW. corner of post office, on sidewalk; chiseled square	570.75
Tps. 54 and 55 N., R. 4 W., near W. sixteenth cor. between secs. 3 and 34, 55 ft. S. and 18 ft. W. from T-rd. S., in root on S. side of 12-in. elm tree; copper nail and washer	686.43
Frankford, 1.5 mi. W. of, cor. secs. 4, 5, 32, and 33, Tps. 54 and 55 N., R. 4 W., 25 ft. N. and 200 ft. W. from T-rd. N., 10 ft. W. of entrance to farm, in concrete post; standard tablet stamped "1838 E R A 1935"	608.065
Reference mark, 110 ft. E. of tablet, in root on N. side of 18-in. hickory tree; copper nail and washer	611.12
Tps. 54 and 55 N., R. 4 W., near W. sixteenth cor. between secs. 5 and 32, 25 ft. S. and 15 ft. E. from crossroads, in root on NE. side of 10-in. hackberry tree; copper nail and washer	598.50
Tps. 54 and 55 N., R. 4 W., near W. sixteenth cor. between secs. 6 and 31, 13 ft. N. and 77 ft. E. from T-rd. N., in root on S. side of twin 10-in. black-oak tree; copper nail and washer	536.79
T. 54 N., R. 5 W., in NE 1/4 sec. 1, 93 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	535.31
T. 54 N., R. 5 W., in NE 1/4 sec. 2, 32 ft. N. and 45 ft. E. from rd. at N. end of bridge over Spencer Creek, 30 ft. SE. of rd. forks, in concrete post; standard tablet stamped "1839 E R A 1935"	533.647
Reference mark, 20 ft. S. of tablet, in root on NW. side of 12-in. elm tree; copper nail and washer	532.10

(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., 15 ft. N. and 40 ft. W. from, on NW. head wall of concrete culvert; chiseled square	558.78

T. 54 N., R. 3 W., in NW 1/4 sec. 7, about 0.2 mi. SE. of filling sta. of J. S. Ford, on top of SW. head wall of concrete culvert; chiseled square	<u>Feet</u> 611.96
Junction of private rd. S., 150 ft. N. and 160 ft. W. from, about 200 ft. S. of pond, on top of NE. head wall of concrete culvert; chiseled square	630.18
T. 54 N., R. 3 W., 0.2 mi. W. of cor. secs. 7, 8, 17, and 18, 59 ft. S. and 82 ft. E. from crossroad. in concrete post; standard tablet stamped "T T 30 C 1935"	651.034
Reference mark 1, 232 ft. N. and 142 ft. W. from tablet, on top of W. head wall of concrete culvert; chiseled square	648.56
Reference mark 2, 77 ft. N. and 14 ft. W. from tablet, on top of N. head wall of concrete culvert; chiseled square	648.03
T. 54 N., R. 3 W., on line between secs. 17 and 20, 5 ft. N. and 60 ft. E. from crossroad, on NW. corner of old concrete culvert; chiseled square	682.18
T. 54 N., R. 3 W., in S 1/2 sec. 20, 33 ft. N. and 18 ft. E. from crossroad, on head wall of concrete culvert; chiseled square	682.93
Bowling Green, 7.2 mi. NW. of, near quarter cor. between secs. 28 and 29, T. 54 N., R. 3 W., 24 ft. N. and 29 ft. E. from crossroad, in concrete post; standard tablet stamped "T T 29 C 1935"	709.046

(Continued in Bowling Green quadrangle; see line 7.)

3. FROM SILEX QUADRANGLE WEST ALONG SOUTH BORDER INTO WELLSVILLE QUADRANGLE, INCLUDING THAT PART OF THE LINE IN BELLFLOWER QUADRANGLE (by Cornish Beck in 1936)
(Continued from Bowling Green quadrangle; see line 8.)

Ashley, 1.9 mi. SW. of, along State Highway 29, in sec. 33, T. 52 N., R. 3 W., in NW. wing wall of bridge; metal disk (Mo. State Highway B.M.)	630.858
State Highway 29 at crossroad, 13 ft. N. and 15 ft. E. from, on N. end of culvert; painted square	685.36
Steel bridge, in NW. wing wall; top of S. bent rod	678.87
T-rd. E., 18 ft. N. and 40 ft. E. from, in S. side of 20-in. white-oak tree; bent nail	682.71
Farmer, 1 mi. S. and 1.8 mi. E. from, cor. secs. 29, 30, 31, and 32, T. 52 N., R. 3 W., 25 ft. N. and 20 ft. E. from rd. corner N.-E., in concrete post; standard tablet stamped "T T Sta No 68 F 1928"	752.043
Crossroads, 13 ft. N. and 15 ft. E. from, on E. corner of wing wall of concrete culvert; chiseled square	732.72
Farmer, about 1 mi. S. and 1 mi. E. from, in SW 1/4 sec. 30, T. 52 N., R. 3 W., on SW. end of bottom step of Siloam Church; chiseled square	745.08
T-rd. E., 15 ft. N. and 30 ft. E. from, in root on S. side of 24-in. post-oak tree; bent nail	707.40
Farmer, 0.5 mi. S. of, quarter cor. between secs. 25 and 26, T. 52 N., R. 4 W., 20 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 67 F 1928"	728.814
Vannoy School, at flagpole; top of base	724.52
Farmer, about 0.9 mi. S. and 0.9 mi. W. from, in SW 1/4 sec. 26, T. 52 N., R. 4 W., on top of N. rivet of NW. pier of bridge over Indian Creek; chiseled cross	640.32
T-rd. S., 15 ft. S. and 15 ft. E. from, in N. side of peach tree; bent nail	681.41
Estes, about 1.5 mi. E. of, near quarter cor. between secs. 33 and 34, T. 52 N., R. 4 W., 21 ft. N. and 10 ft. W. from crossroads, on W. head wall of culvert; chiseled square	735.77
Estes, 1 mi. E. of, near center sec. 33, T. 52 N., R. 4 W., 20 ft. N. 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 1928"	733.510
Estes, 12 ft. N. and 15 ft. W. from crossroads, on N. end of iron pipe culvert; painted square	737.19
T-rd. E., NE. of, on concrete base of corner post; chiseled square	726.23
Estes, about C.2 mi. N. and 0.5 mi. W. from, near N. sixteenth cor. between secs. 31 and 32, T. 52 N., R. 4 W., 12 ft. S. and 13 ft. W. from T-rd. W., on head wall of culvert; chiseled square	691.16
Estes, about 0.2 mi. N. and 1.5 mi. W. from, near N. sixteenth cor. between secs. 31 and 36, T. 52 N., Rs. 4 and 5 W., 9 ft. N. and 21 ft. E. from T-rd. E., on head wall of culvert; chiseled square	741.25
Estes, 1 mi. N. and 1.5 mi. W. from, approximate quarter cor. between secs. 25 and 30, T. 52 N., Rs. 4 and 5 W., 75 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 65 F 1928"	754.860
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	710.90
Crossroads, 15 ft. S. and 24 ft. W. from, on head wall of culvert; chiseled square	757.88
Estes, about 1 mi. N. and 3.5 mi. W. from, near quarter cor. between secs. 26 and 27, T. 52 N., R. 5 W., 0.5 mi. W. of Boyd School, 15 ft. S. and 100 ft. E. from rd. at fences N.-S., in root on S. side of 20-in. elm tree; copper nail and washer	766.30
Estes, 1 mi. N. and 1.5 mi. W. from, near quarter cor. between secs. 27 and 28, T. 52 N., R. 5 W., 25 ft. W. of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 64 F 1928"	767.445
T. 52 N., R. 5 W., cor. secs. 27, 28, 33, and 34, 12 ft. S. and 18 ft. E. from crossroads, on head wall of culvert; chiseled square	753.53
T. 52 N., R. 5 W., cor. secs. 28, 29, 32, and 33, 12 ft. S. and 20 ft. W. from County Route W at crossroad, on S. end of iron pipe culvert; painted square	775.81

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 Feet
774.75

(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. 8, 9, 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 762.58
 U.S.C. & G.S. standard disk stamped "V 137 1935" 765.806
 Tps. 52 and 53 N., R. 5 W., near quarter cor. between secs. 5 and 32, 26 ft. N. and 6 ft. W. from crossroad, on head wall of culvert; chiseled square 745.44
 Vandalia, 2 mi. N. of, near quarter cor. between secs. 29 and 32, T. 53 N., R. 5 W., 25 ft. N. and 25 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 27 C 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
 T. 53 N., R. 5 W., cor. secs. 20, 21, 28, and 29, 21 ft. W. of highway S.; 63 ft. S. of rd. W., in root on N. side of 24-in. elm tree; copper nail and washer 761.72
 T. 53 N., R. 5 W., cor. secs. 16, 17, 20, and 21, 45 ft. S. and 22 ft. W. from T-rd. E., in root on W. side of 20-in. cherry tree; copper nail and washer 760.28
 T. 53 N., R. 5 W., cor. secs. 8, 9, 16, and 17, 21 ft. S. and 24 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, 148 ft. S. and 5 ft. W. from T-rd. E., 15 ft. S. and 5 ft. W. from rd. corner W.-N., 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 Spencier Creek; chiseled square 582.86
 Madisonville, at T-rd. S., in N. side of telephone pole; nail 688.42

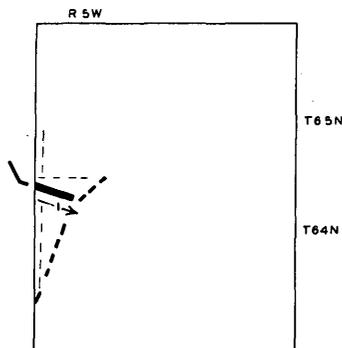
(Continued in Farber quadrangle; see line 4.)

For an additional level line along Alton R.R., refer to United States Coast and Geodetic Survey second-order line; Louisiana to Mexico.

SPIRIT LEVELING IN MISSOURI

KEOKUK QUADRANGLE*
 (Latitude $40^{\circ}15' - 40^{\circ}30'$; longitude $91^{\circ}15' - 91^{\circ}30'$)

Clark County



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.)

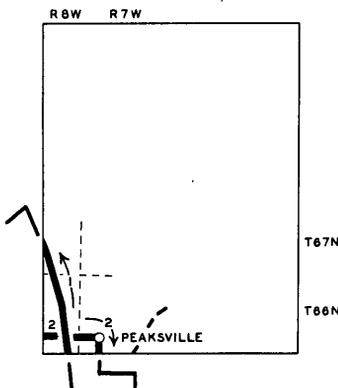
T. 64 N., R. 6 W., in NE 1/4 sec. 1, 45 ft. N. and 81 ft. W. from N.-S. crossroad, in root on N. side of 14-in. elm tree; copper nail and washer	<u>Feet</u> 496.02
T. 64 N., R. 5 W., in SW 1/4 sec. 6, 165 ft. SE. of junction of private lane S., 21 ft. W. of drainage ditch, S. of highway, on center of concrete head wall of culvert; chiseled square	493.97
Alexandria, at N. limits of, 350 ft. W. of junction of rd. E., at center on N. head wall of concrete culvert; chiseled square	490.35
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 E R A 1935"	488.600
U.S.C.E. B.M. designated "489 R 109"	
Copper bolt	496.700
Top of cap	500.710

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

*The greater part of this quadrangle lies in Illinois and Iowa.

DONNELSON QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 91°30'-91°45')

Clark County



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 C, 23 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 94 C 1936"	<u>Feet</u> 705.604
T. 66 N., R. 8 W., near quarter cor. between secs. 13 and 24, 30 ft. S. and 36 ft. E. from crossroad, in root on NW. side of 3/4-in. maple tree; copper nail and washer	709.62
T. 66 N., R. 8 W., near quarter cor. between secs. 12 and 13, 15 ft. S. and 27 ft. W. from crossroad, on center of S. head wall of concrete culvert; chiseled square	712.56
Kahoka, 8.3 mi. W. 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"	709.096
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	701.38
T. 66 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	717.23
T. 67 N., R. 8 W., in SW 1/4 sec. 34, at junction of rd. SW., surface of highway	698.2

(Continued in Keosauqua quadrangle; see line 1.)

2. FROM KEOSAUQUA QUADRANGLE AT SEC. 22, T. 66 N., R. 8 W., EAST ALONG WEST HALF OF SOUTH BORDER INTO KAHOKA QUADRANGLE AT SEC. 19, T. 66 N., R. 7 W. (by F. Y. Brown in 1936-37)
(Continued from Keosauqua quadrangle; see line 2.)

T. 66 N., R. 8 W., near center sec. 23, 110 ft. E. of T-rd. N., on N. end of E. abutment of bridge over creek; chiseled square	590.40
T. 66 N., R. 8 W., near quarter cor. between secs. 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 14-in. white-oak tree; copper nail and washer	692.76
County Route C, 25 ft. S. of, about 300 ft. N. of farmhouse, in root on N. side of 28-in. maple tree; crossed nails	689.75
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	710.84
Peaksville, near crossroad, 40 ft. S. of County Route C, opposite Richey's store, in root on N. side of 14-in. locust tree; copper nail and washer	702.42

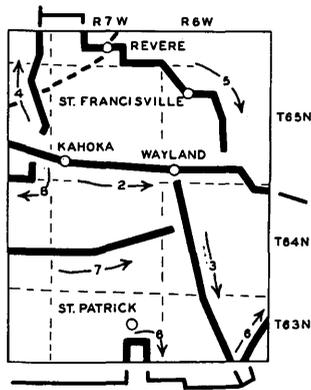
(Continued in Kahoka quadrangle; see line 5.)

For an additional level line along Atchison, Topeka & Santa Fe Ry., refer to United States Coast and Geodetic Survey second-order line, Hurland, 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)
- | | <u>Feet</u> |
|---|------------------|
| T. 63 N., R. 6 W., in W 1/2 sec. 4, in SE. corner of stone foundation of schoolhouse; standard tablet stamped "538 A" | **535.087 |
| T. 64 N., R. 6 W., in NW 1/4 sec. 8, at crossroads, in stone step at W. door of Fox River Church; aluminum tablet stamped "533 A" | **532.532 |
| Antioch, in SW 1/4 sec. 20, T. 64 N., R. 7 W., in NW. corner of store building; standard tablet stamped "698 A" | 697.564 |
| Kahoka, in front of Chicago, Burlington & Quincy R.R. sta., top of rail Kahoka, at SW. corner of courthouse, in window ledge; aluminum tablet stamped "704 A" | 697.1
704.887 |
2. FROM WYACONDA QUADRANGLE EAST ALONG STATE HIGHWAY 4 TO WAYLAND, THENCE EAST ALONG U.S. HIGHWAY 61 INTO KEOKUK QUADRANGLE (by E. A. Barnes in 1936)
(Continued from Wyaconda quadrangle; see line 3.)
- | | |
|--|---------|
| Kahoka, 1 mi. W. of, 15 ft. N. and 33 ft. W. from crossroad, at center on N. head wall of concrete culvert; chiseled square | 687.93 |
| Kahoka, at W. limits of, at crossroad; surface of highway | 702.4 |
| Kahoka, at SE. corner of courthouse yard, in concrete post; standard tablet stamped "695 A" | 697.124 |
| Kahoka, 40 ft. N. and 65 ft. E. from intersection of Main and Washington Streets, in concrete post; standard tablet stamped "1517 E R A 1935" | 703.272 |
| Kahoka, 1.1 mi. E. of, 30 ft. S. and 50 ft. E. from junction of rd. S., in top of right-of-way post; iron pin | 696.98 |
| Junction of rd. S.; surface of highway | 691.2 |
| T. 65 N., R. 7 W., in SW 1/4 sec. 21, 20 ft. S. and 18 ft. E. from crossroad, on center of E. head wall of concrete culvert; chiseled square | 689.69 |
| T. 65 N., R. 7 W., in NE 1/4 sec. 28, 35 ft. S. of E.-W. crossroad, in concrete post; standard tablet stamped "1518 E R A 1935" | 690.513 |
| Crossroad; surface of highway | 687.8 |
| T. 65 N., R. 7 W., in sec. 34, 45 ft. N. and 300 ft. W. from N.-S. crossroad, in top of right-of-way post; iron pin | 682.24 |
| Crossroad; surface of highway | 677.8 |
| T. 65 N., R. 7 W., in S 1/2 sec. 35, 26 ft. S. and 14 ft. E. from N.-S. crossroad, on center of E. head wall of concrete culvert; chiseled square | 676.80 |
| T. 65 N., R. 7 W., near quarter cor. between secs. 35 and 36, 35 ft. S. of highway at fence S., in concrete post; standard tablet stamped "1519 E R A 1935" | 664.827 |
| Wayland, 1.5 mi. W. of, 20 ft. S. and 12 ft. E. from crossroad, on center of E. head wall of concrete culvert; chiseled square | 526.42 |
| Wayland, 1 mi. W. of, at SE. corner of bridge over Fox River, in center of concrete wing wall; standard tablet (set by water-resources branch of U.S. Geol. Survey) | 525.592 |
| Wayland, 50 ft. N. and 65 ft. W. from junction of U.S. Highway 61 and State Highway 4, in concrete post; standard tablet stamped "1520 E R A 1935" | 535.371 |
| Wayland, about 1 mi. E. of, 21 ft. N. and 27 ft. W. from junction of rd. N., on center of W. head wall of concrete culvert; chiseled square | 531.62 |
| Wayland, about 2 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 | 497.69 |
| Crossroad, 15 ft. N. and 21 ft. E. from, on center of N. head wall of concrete culvert; chiseled square | 498.07 |

* 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 "1521 E R A 1935"	<u>Feet</u> 500.908
Concrete culvert near Jenkins School, on W. head wall of; chiseled square	499.07
Crossroad; surface of highway	495.8

(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. 64 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	522.24
T. 64 N., R. 6 W., in SE 1/4 sec. 6, about 280 ft. N. of bridge over Fox River, 12 ft. N. and 33 ft. E. from junction of rd. E., on center of N. head wall of concrete culvert; chiseled square	521.18
T. 64 N., R. 6 W., in NE 1/4 sec. 7, 30 ft. N. and 30 ft. W. from junction of rd. W., on center of N. head wall of concrete culvert; chiseled square	524.82 635.526
Fox River triangulation sta.; U.S.C.E. stone post	
T. 64 N., R. 6 W., in NW 1/4 sec. 17, 20 ft. N. and 35 ft. E. from junction of rd. E., on center of N. head wall of concrete culvert; chiseled square	515.55
Junction of rd. E.; surface of highway	531.3
T. 64 N., R. 6 W., on line between secs. 19 and 20, 95 ft. S. and 12 ft. W. from junction of rd. W., at NW. end of concrete bridge, on inside curb; chiseled square	529.76
T. 64 N., R. 6 W., in center sec. 29, 38 ft. N. and 24 ft. W. from junction of rd. W., on center of W. head wall of concrete culvert; chiseled square	511.88
T. 64 N., R. 6 W., about 0.2 mi. W. of cor. secs. 28, 29, 32, and 33, 75 ft. S. and 45 ft. W. from crossroad, in concrete post; standard tab- let stamped "1523 E R A 1935"	522.628
T. 64 N., R. 6 W., in sec. 32, at SW. corner of bridge over Honey Creek, on center of concrete wing wall; chiseled square	514.43
T. 65 N., R. 6 W., near quarter cor. between secs. 4 and 5, 70 ft. N. and 24 ft. W. from junction of County Route Z, on center of W. head wall of concrete culvert; chiseled square	513.39
T. 65 N., R. 6 W., in sec. 9, at SW. corner of bridge, on center of con- crete wing wall; chiseled square	513.26
T. 65 N., R. 6 W., 640 ft. E. of cor. secs. 9, 10, 15, and 16, 50 ft. W. of highway at fence W., in concrete post; standard tablet stamped "1531 E R A 1935"	525.178
T. 65 N., R. 6 W., 0.1 mi. W. of center sec. 15, 105 ft. N. and 20 ft. W. from crossroad, on center of W. head wall of concrete culvert; chiseled square	505.50

(Continued in Canton quadrangle; see line 5.)

4. FROM ATCHISON, TOPEKA & SANTA FE RAILWAY NORTH ALONG STATE
HIGHWAY 81 INTO DONNELLSON QUADRANGLE (by B. A. Barnes in
1936)

U.S.C. & G.S. standard disk stamped "H 85 1935"	631.383
Kahoka, 3 mi. N. of, 195 ft. N. and 47 ft. W. from Atchison, Topeka & Santa Fe Ry. double-track crossing, 11 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 95 C 1936" (to be reset)	596.205
Kahoka, about 4 mi. N. of, 305 ft. S. and 30 ft. E. from crossroad, in center of E. head wall of concrete culvert; iron pin	589.68
Top of hill, on center of E. head wall of concrete culvert; chiseled square	677.66
T. 66 N., R. 8 W., in SW 1/4 sec. 25, 9 ft. S. and 24 ft. W. from junction of rd. W., on center of S. head wall of concrete culvert; chiseled square	672.35
T. 66 N., R. 8 W., in W 1/2 sec. 25, 15 ft. S. and 21 ft. W. from cross- road, on center of S. head wall of concrete culvert; chiseled square	694.04
T. 66 N., R. 8 W., in NW 1/4 sec. 25, at junction of rd. N.; surface of highway	690.8

(Continued in Donnellson quadrangle; see line 1.)

5. FROM DONNELLSON QUADRANGLE, NEAR REVERE, EAST AND SOUTHEAST
ALONG ROADS TO POINT ABOUT 2.5 MILES EAST OF WAYLAND
(by F. Y. Brown in 1937)

(Continued from Donnellson quadrangle; see line 2.)

Revere, about 0.2 mi. W. of, along County Route C, 100 ft. NW. of junction of rd. S., 20 ft. N. of rd., in root on S. side of 14-in. locust tree; copper nail and washer	702.68
Revere, 185 ft. W. of W. corner of Atchison, Topeka & Santa Fe Ry. sta., 35 ft. E. of rd., 3 ft. N. and 8 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 96 C 1936"	680.034
U.S.C. & G.S. standard disk stamped "L 85 1935"	678.322
T. 66 N., R. 7 W., cor. secs. 27, 28, 33, and 34, 100 ft. E. of cross- roads, 30 ft. N. of rd., in fence line, in root on E. side of 24-in. elm tree; copper nail and washer	702.79

T. 66 N., R. 7 W., in S 1/2 sec. 34, 110 ft. S. and 125 ft. E. from junction of lane N., 700 ft. N. of T-rd. E., 85 ft. E. of rd., in foundation of old barn, in top of W. concrete post; iron strip	Feet 698.19
Revere, 3 mi. SE. of, near W. sixteenth cor. between secs. 2 and 35, Tps. 65 and 66 N., R. 7 W., 52 ft. W. of rd. fork E., 2 ft. S. of fence, in concrete post; standard tablet stamped "T T 97 C 1936"	696.509
Tps. 65 and 66 N., R. 7 W., on line between secs. 2 and 35, on top of E. end of S. head wall of concrete culvert; chiseled square	670.02
Tps. 65 and 66 N., R. 7 W., cor. secs. 1, 2, 35, and 36, 25 ft. N. and 20 ft. W. from T-rd. N., in root on N. side of 14-in. wild-cherry tree; copper nail and washer	688.59
Tps. 65 and 66 N., R. 7 W., on line between secs. 1 and 36, in barnyard of R. D. Bogguss, 75 ft. S. of rd., on NE. corner of concrete windmill platform; chiseled square	689.98
T. 65 N., R. 7 W., near E. sixteenth cor. sec. 1, 35 ft. S. and 25 ft. E. from T-rd. E., in fence corner, in root on N. side of 8-in. cherry tree; copper nail and washer	690.00 691.11
Junction of lane N., 20 ft. S. of, in base of corner fence post; spike	691.11
St. Francisville, 2 mi. NW. of, in NE 1/4 sec. 6, T. 65 N., R. 6 W., 70 ft. S. of T-rd. N., in concrete post; standard tablet stamped "T T 98 C 1936"	669.217
Top of hill, 20 ft. S. of rd., in fence line at field gate, in root on S. side of 16-in. locust tree; crossed nails	650.17
St. Francisville, at N. edge of, about 1,000 ft. S. of bridge over Des Moines River, 25 ft. N. and 40 ft. W. from County Route B at rd. W., 15 ft. SW. of filling sta., in root on N. side of 10-in. walnut tree; copper nail and washer	519.94
St. Francisville, 38 ft. N. and 48 ft. W. from NW. corner of schoolyard, 42 ft. S. of street, 2 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 99 C 1936"	543.312
St. Francisville, about 0.8 mi. E. of, near center sec. 9, T. 65 N., R. 6 W., 40 ft. S. and 115 ft. W. from T-rd. E., in root on N. side of 30-in. locust tree; copper nail and washer	538.44
St. Francisville, 2 mi. SE. of, in N 1/2 sec. 15, T. 65 N., R. 6 W., 540 ft. S. of rd. corner from S.-W. at levee, 400 ft. N. of power line, near creek, 40 ft. E. of rd., in root on E. side of 20-in. elm tree; copper nail and washer	503.20
St. Francisville, 3 mi. SE. of, near quarter cor. between secs. 15 and 22, T. 65 N., R. 6 W., 2 ft. N. and 28 ft. E. from rd. at fences E.-W., 2 ft. N. and 8 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 100 C 1936"	503.258
T. 65 N., R. 6 W., in SW 1/4 sec. 22, 25 ft. S. and 40 ft. E. from rd. forks, in root on W. side of 40-in. ash tree; copper nail and washer	502.68
T. 65 N., R. 6 W., in N 1/2 sec. 27, 55 ft. S. and 15 ft. W. from rd. forks, in root on N. side of large, box-elder tree; copper nail and washer	503.12
Rd. forks, 25 ft. W. of, on concrete base of corner fence post; chiseled square	500.21
6. FROM CANTON QUADRANGLE, NEAR ST. PATRICK, EAST INTO KEOKUK QUADRANGLE AT SEC. 12, T. 63 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. 63 N., R. 7 W., 160 ft. W. of rd. W., 15 ft. N. of rd., in root on N. side of 8-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	484.575
7. FROM WYAONDA 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 Wyaonda quadrangle; see line 6.)	
T. 64 N., R. 8 W., near cor. secs. 23, 24, 25, and 26, 450 ft. W. of T-rd. W., 15 ft. N. of rd., 12 ft. E. of private rd. N., in fence line, in concrete post; standard tablet stamped "16 B 1936"	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 NW. cor. sec. 25, on S. pier at W. end of bridge over Wyaonda River, on top of bolt head; chiseled square	587.71
T. 64 N., R. 8 W., near cor. secs. 19, 24, 25, and 30, 140 ft. W. of County Route T at rd. W., 22 ft. N. of rd., in root on N. side of twin 8-in. elm tree; copper nail and washer	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, 140 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, 28, 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 8-in. hedge tree; crossed nails	689.21

	<u>Feet</u>
T. 64 N., R. 7 W., near cor. secs. 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 secs. 22 and 27, 300 ft. N. of rd. corner from W.-N., 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., in NE 1/4 sec. 27, 20 ft. S. of rd. corner from W.-S., 260 ft. N. of T-rd. E., 12 ft. W. of rd., on center of W. head wall of concrete culvert; chiseled square	664.25
T. 64 N., R. 7 W., near N. sixteenth cor. sec. 26, 17 ft. S. and 26 ft. E. from T-rd. W., 7 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 109 C 1936"	638.906
T. 64 N., R. 7 W., near center sec. 23, 360 ft. S. of crossroads, 40 ft. E. of rd., in root on W. side of 18-in. cedar tree; copper nail and washer	657.48
T. 64 N., R. 7 W., near quarter cor. between secs. 23 and 24, 430 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"	674.884
U.S.C. & G.S. standard reference disk stamped "Dukes No 2"	693.732
T. 64 N., R. 6 W., in N 1/2 sec. 18, 15 ft. N. of rd., 50 ft. E. of N.-S. fence, in root on S. side of 16-in. post-oak tree; copper nail and washer	633.33
T. 64 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
T. 64 N., R. 6 W., near N. sixteenth cor. between secs. 17 and 18, 15 ft. S. and 24 ft. W. from U.S. Highway 61 at rd. W., on center of S. head wall of concrete culvert; chiseled square	527.42

8. FROM POINT 0.6 MILE WEST OF KAHOKA, SOUTH INTO WYACONDA QUADRANGLE AT SEC. 2, T. 64 N., R. 8 W. (by F. Y. Brown in 1937)

Concrete culvert, on N. end of W. head wall; chiseled square Kahoka, 1 mi. W. and 1.5 mi. S. from, cor. secs. 25, 26, 35, and 36, T. 65 N., R. 8 W., 59 ft. S. and 20 ft. W. from crossroads, 2 ft. W. of fence, in concrete post; standard tablet stamped "T T 113 C 1936"	680.99
T. 65 N., R. 8 W., on line between secs. 35 and 36, 40 ft. S. and 45 ft. W. from bridge over Honey Creek, in root on E. side of 30-in. elm tree; crossed nails	697.380
T. 65 N., R. 8 W., S. cor. secs. 35 and 36, 40 ft. S. and 200 ft. W. from T-rd. N., 50 ft. SE. of small bridge, on NE. corner of concrete well top; chiseled square	641.11
	668.49

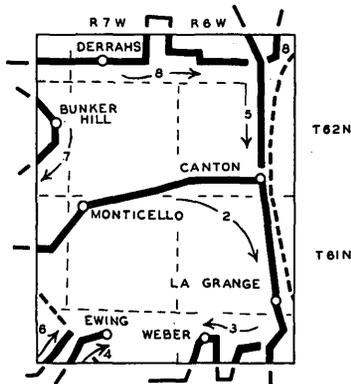
(Continued in Wyaconda quadrangle; see line 5.)

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

SPIRIT LEVELING IN MISSOURI

CANTON QUADRANGLE*
(Latitude 40°00'-40°15'; longitude 91°30'-91°45')

Clark and Lewis Counties



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

	<u>Feet</u>
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"	**613.860
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"	686.081
T. 61 N., R. 6 W., in NE 1/4 SE 1/4 sec. 20, on E. side of large brick dwelling owned by Eliza Glavin, in stone casing over cellar window; standard tablet stamped "640 A"	**637.800
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"	**634.228
T. 62 N., R. 7 W., near center of SE 1/4 sec. 16, 40 ft. W. of lane to dwelling of L. E. Moore, N. of rd., at foot of cherry tree; iron post stamped "671 A"	**668.715
Derrahs, in SW 1/4 sec. 27, T. 63 N., R. 7 W., N. of rd., in fence corner SE. of schoolhouse; iron post stamped "608 A"	606.653
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"	699.504

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 4.2 mi. E. of, on concrete abutment at SW. corner of bridge over Middle Fabius River; chiseled square	572.64
Junction of rd. E., on base of concrete, corner fence post; chiseled square	676.26
Monticello, about 1 mi. S. of, 50 ft. N. and 65 ft. W. from junction of rd. S., on base of concrete gatepost; chiseled square	640.01
Monticello, 40 ft. N. of S. limits of, 40 ft. E. of highway, in concrete post; standard tablet stamped "1429 C W A 1934"	604.240
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	658.32
Monticello, about 1.2 mi. E. of, on S. head wall of concrete culvert; chiseled square	641.36
Monticello, about 2.2 mi. E. of, at N.-S. crossroad, on S. head wall of concrete culvert; chiseled square	669.42
Monticello, 3.2 mi. E. of, 35 ft. N. of highway, 25 ft. E. of driveway, 400 ft. S. of dwelling, in concrete post; standard tablet stamped "1430 C W A 1934"	650.075
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	622.70
Monticello, about 5.4 mi. E. of, on top of masonry at SW. corner of bridge over Sugar Creek; chiseled square	560.40
Junction of rd. S., on top of rock at W. end of culvert; chiseled square	636.09
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 "1431 C W A 1934"	628.556
Monticello, about 7.5 mi. E. of, 12 ft. N. of junction of rd. N., on N. head wall of concrete culvert; chiseled square	610.66
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	544.14
Canton, about 1.5 mi. W. of, 28 ft. S. and 37 ft. E. from junction of rd. S., in base of corner fence post; copper nail and washer	539.77

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

**Accuracy doubtful because of insufficient connections.

	Feet
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 "1432 C W A 1935"	635.042
Canton, at NW. corner of yard of high school, on top of concrete sewer cover; chiseled square	485.94
Concrete bridge, on NE. wing wall; chiseled square	502.43
Canton, 1 mi. S. of, 40 ft. E. of junction of rd. W., 4 ft. W. of corner fence post, in concrete post; standard tablet stamped "1433 C W A 1935"	501.975
Canton, about 2 mi. S. of, at junction of rd. W., on W. head wall of concrete culvert; chiseled square	502.37
Junction of private rd. W., on W. head wall of concrete culvert; chiseled square	499.38
La Grange, 1 mi. N. of, 20 ft. S. and 40 ft. E. from crossroad, in concrete post; standard tablet stamped "1434 C W A 1935"	498.414
La Grange, about 0.5 mi. N. of, on NW. corner of abutment of bridge over Wyaconda River; chiseled square	489.67
La Grange, at N. limits of, at junction of rd. W., in W. concrete head wall of culvert; top of bolt	491.90
La Grange, at SE. corner of junction of County Route C, on top of curb; chiseled square	490.10
La Grange, 0.4 mi. S. of S. limits of, at NW. corner of yard of farmhouse, in root on W. side of 36-in. soft-maple tree; copper nail and washer	495.53
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	495.70
La Grange, 1 mi. S. of, 60 ft. S. of cottage, 60 ft. E. of highway, in concrete post; standard tablet stamped "1435 C W A 1935"	505.258
T. 60 N., R. 6 W., in NW 1/4 sec. 12, at junction of rd. S., in root on W. side of 14-in. walnut tree; crossed nails	514.30
La Grange, about 2.2 mi. S. of, 25 ft. N. and 30 ft. W. from junction of rd. W., on N. head wall of concrete culvert; chiseled square	506.01
Junction of private rd. W., on N. end of iron pipe culvert; painted square	494.83

(Continued in Palmyra quadrangle; see line 3.)

3. FROM POINT ABOUT 2.2 MILES SOUTH OF LA GRANGE, SOUTHWEST ALONG ROADS INTO PALMYRA QUADRANGLE, ABOUT 1 MILE SOUTH OF WEBBER (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	524.03
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(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	604.76
T. 60 N., R. 6 W., in SE 1/4 sec. 8, 65 ft. S. and 20 ft. W. from T-rd. W., 125 ft. N. and 20 ft. W. from T-rd. E., in fence line, in root on S. side of 12-in. hickory tree; copper nail and washer	612.98
T. 60 N., R. 6 W., in W 1/2 sec. 8, 50 ft. S. and 12 ft. E. from T-rd. S., in top of 14-in. stump; copper nail and washer	636.98
T-rd. N., on W. end of concrete culvert; chiseled square	632.55
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 "5 F 1936"	635.648
Reference mark 1, 60 ft. E. of tablet, on N. end of concrete culvert; chiseled square	633.57
Reference mark 2, 60 ft. S. of tablet, on W. end of concrete culvert; chiseled square	629.66

(Continued in Palmyra quadrangle; see line 4.)

4. FROM POINT ABOUT 0.5 MILE WEST OF EWING EAST TO EWING (by A. R. Friend in 1936)

(Continued from Palmyra quadrangle; see line 6.)

Ewing, 0.5 mi. W. of, near W. sixteenth 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	642.20
Ewing, at W. limits of, at junction of State Highway 6 and rd. W., on top of concrete right-of-way marker; chiseled cross	682.26
U.S.C. & G.S. standard disk stamped "H 15 1933"	676.216

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

(by E. A. Barnes in 1936)

(Continued from Kahoka quadrangle; see line 3.)

T. 63 N., R. 6 W., 480 ft. E. of quarter cor. between secs. 15 and 22, 215 ft. N. and 20 ft. W. from junction of rd. W. on Clark-Lewis county line, on center of W. head wall of concrete culvert; chiseled square	513.19
T. 63 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	500.66
Junction of rd. W., 93 ft. S. and 20 ft. W. from, on NW. concrete wing wall of bridge; chiseled square	506.64
T. 63 N., R. 6 W., in N 1/2 sec. 35, 120 ft. S. and 45 ft. W. from junction of rd. W., in concrete post; standard tablet stamped "1532 E R A 1935"	508.945
Junction of rd. NW.; surface of highway	515.9

T. 63 N., R. 6 W., 3/40 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	Feet 517.48 601.868
Cougill triangulation sta.; U.S.C.E. stone post	
T. 62 N., R. 6 W., in E 1/2 sec. 11, about 360 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	517.25
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	505.60
Canton, about 2 mi. N. of, 50 ft. W. of highway, 60 ft. N. and 15 ft. E. from schoolhouse, in concrete post; standard tablet stamped "1533 E R A 1935"	519.071 498.9
Junction of rd. S.; surface of highway	
Canton, about 1 mi. N. of, 18 ft. N. and 21 ft. W. from crossroad, in center of W. head wall of concrete culvert; iron pin in chiseled square (set by highway department)	486.51 486.9
Junction of rd. E.; surface of highway	
Canton, at N. limits of, 18 ft. N. and 54 ft. W. from junction of street W. and rd. E. to Mississippi River Dam 20, on center of N. head wall of concrete culvert; chiseled square	481.32 490.148 493.388
U.S.C.E. B.M. designated "6A"	
U.S.C.E. B.M. designated "9"	
U.S.C.E. B.M. designated "506 R 104"	
Copper bolt	480.703
Top of cap	484.713
6. FROM PALMYRA QUADRANGLE EAST TO POINT ABOUT 0.5 MILE WEST OF EWING (by F. Y. Brown in 1936) (Continued 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., 8 ft. E. of private drive to farmhouse, in root on S. side of 8-in. catalpa tree; copper nail and washer	612.51
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	586.99
7. FROM La BELLE QUADRANGLE, NEAR BUNKER HILL, SOUTH AND WEST ABOUT 2 MELES INTO La BELLE QUADRANGLE (by F. Y. Brown in 1937) (Continued from La Belle quadrangle; see line 5.)	
Mott triangulation sta.; U.S.C. & G.S. standard disk stamped "Mott 1934"	705.371
U.S.C. & G.S. standard reference disk stamped "Mott No 1 1934"	705.988
U.S.C. & G.S. standard reference disk stamped "Mott No 2 1934"	706.099
U.S.C. & G.S. standard reference disk stamped "Mott Azi 1934"	696.641
Rd., 12 ft. N. of, on E. end of N. head wall of concrete culvert; chiseled square	638.97
(Continued in La Belle quadrangle; see line 5.)	
8. FROM La BELLE QUADRANGLE AT SEC. 24, T. 63 N., R. 8 W., EAST INTO KAHOKA QUADRANGLE AT SEC. 24, T. 63 N., R. 6 W. (by F. Y. Brown in 1937)	
T. 63 N., R. 8 W., in SW 1/4 sec. 24, 40 ft. S. of rd., 200 ft. E. of jog in rd., in root on N. side of 22-in. elm tree; copper nail and washer	692.67
T. 63 N., R. 8 W., near quarter cor. between secs. 24 and 25, 25 ft. E. of W. rd. at crossroads, in root on S. side of 14-in. elm tree; nail and washer	681.85
T. 63 N., R. 8 W., on line between secs. 24 and 25, on corner of N. wing of W. abutment of small steel bridge; chiseled square	638.28
Williamstown, 4 mi. E. of, E. sixteenth cor. between secs. 19 and 30, T. 63 N., R. 7 W., 18 ft. N. and 15 ft. E. from T-rd. S., 18 ft. N. and 350 ft. W. from T-rd. N., 1 ft. S. of hedge fence, in concrete post; standard tablet stamped "T T 122 C 1936"	696.672
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	630.91
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 28-in. white-oak tree; nail and washer	661.86 607.96
Small bridge, on N. end of E. abutment; chiseled square	
T. 63 N., R. 7 W., in NW 1/4 sec. 28, 100 ft. N. of creek, 15 ft. N. of rd., 60 ft. SW. of stucco farmhouse, in root on S. side of 30-in. elm tree; nail and washer	593.19
T. 63 N., R. 7 W., near quarter cor. between secs. 27 and 28, 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	595.98
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	640.18
T. 63 N., R. 7 W., near cor. between secs. 26, 27, 34, and 35, 150 ft. S. and 15 ft. E. from T-rd. S., in root on N. side of 18-in. black-oak tree; copper nail and washer	573.06
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	563.18
T. 63 N., R. 7 W., on line between secs. 26 and 35, 210 ft. N. and 25 ft. W. from T-rd. N., in root on W. side of 22-in. linden tree; copper nail and washer	578.39
T. 63 N., R. 7 W., in E 1/2 sec. 26, 440 ft. N. of T-rd. E., 30 ft. W. of rd., in farmyard, in root on E. side of 16-in. cottonwood tree; copper nail and washer	663.25

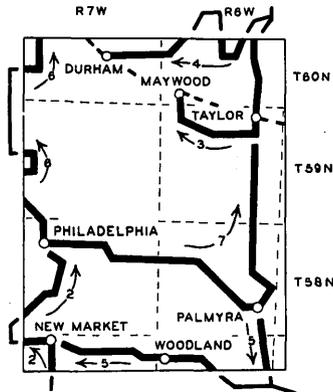
	<u>Feet</u>
T. 63 N., R. 7 W., 0.1 mi. W. of quarter cor. between secs. 24 and 25, at intersection of tangents of rd. N.-W., 11 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 121 C 1936"	665.215
T. 63 N., R. 7 W., near quarter cor. between secs. 23 and 24, about 800 ft. N. of 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. SE. 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"	662.804
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 Rodgers, 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. 27, 25 ft. N. of rd., at SE. corner of farmyard 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	482.98
T. 63 N., R. 6 W., on line between secs. 24 and 25, near Chicago, Burlington & Quincy R.R. at private rd. crossing, 41 ft. W. of track, 8 ft. N. of rd., on base of concrete post; highest point	483.74
T. 63 N., R. 6 W., near E. sixteenth cor. between secs. 13 and 24, 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	483.78

(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.

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

Lewis and Marion Counties



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

	<u>Feet</u>
Hester, 0.3 mi. E. of, in SE 1/4 NW 1/4 sec. 18, T. 59 N., R. 6 W., in sixth tier of stone from top of S. abutment of bridge over South Fabius River; standard tablet stamped "511 Q"	*511.322
Palmyra Junction, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail	652.7
Woodland, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail	681.9
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"	696.048
Philadelphia, in NE. corner of stone foundation of Baptist Church; aluminum tablet stamped "711 Q" (on unchecked single-run spur line)	*711.681
Emerson, in SE. corner of stone foundation of Christian Church; standard tablet stamped "672 Q"	*672.671
Durham, in front of Quincy, Omaha & Kansas City R.R. sta.; top of rail	617.4
Benbow, at post office, on W. end of step; chiseled cross	*694.23

2. FROM MONROE CITY QUADRANGLE, NEAR NEW MARKET, NORTH TO PHILADELPHIA (by J. H. Vinyard in 1934)
(Continued from Monroe City quadrangle; see line 2.)

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	605.42
(For balance in Newark quadrangle, see line 2.)	
T. 58 N., R. 8 W., near quarter cor. between secs. 24 and 25, at gate to barnyard, in root of 24-in. elm tree; copper nail and washer	680.47
T. 58 N., R. 8 W., in SE 1/4 sec. 24, on S. wing wall of E. abutment of bridge over North River; chiseled square	555.87
T. 58 N., R. 7 W., in W 1/2 sec. 19, at top of hill, SE. of T-rd. E., in root of 10-in. oak tree; copper nail and washer	676.40

3. FROM CANTON QUADRANGLE SOUTH ALONG U.S. HIGHWAY 61 TO POINT 1 MILE SOUTH OF TAYLOR, THENCE WEST ALONG STATE HIGHWAY 6 AND COUNTY ROUTE V TO MAYWOOD (by A. R. Friend in 1936)
(Continued from Canton quadrangle; see line 2.)

La Grange, 3 mi. S. of, 30 ft. N. and 48 ft. W. from crossroad, 125 ft. NW. of filling sta., in concrete post; standard tablet stamped "1436 C W A 1935"	500.457
T. 60 N., R. 6 W., in N 1/2 sec. 23, on NW. corner of bridge over Durgen Creek; chiseled square	496.82
T. 60 N., R. 6 W., in NE 1/4 sec. 26, 20 ft. S. and 20 ft. W. from junction of rd. W. to farmhouse, 1,050 ft. N. of rd. E., on W. head wall of concrete culvert; chiseled square	502.79
Junction of rd. E., on SW. corner of porch of Walnut Grove School; chiseled square	488.21
Taylor, 1.5 mi. N. of, 40 ft. N. and 15 ft. W. from junction of rd. E., on top of curb; chiseled square	485.90
Taylor, about 1 mi. N. of, at junction of rd. N., on S. head wall of concrete culvert; chiseled square	493.85
U.S.C. & G.S. standard disk stamped "C 15 1933"	488.910

*Accuracy doubtful because of insufficient connections.

	Feet
Taylor, 1.5 mi. S. of, 100 ft. N. and 100 ft. W. from junction of State Highway 6, in concrete post; standard tablet stamped "1437 C W A 1935"	497.186
Schroeder triangulation sta. reference mark No 2; U.S.C. & G.S. standard reference disk stamped "Schroeder No 2"	613.175
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 16-in. elm tree; copper nail and washer	627.92
T. 59 N., R. 6 W., in S 1/2 sec. 9, near junction of rd. S., on N. head wall of concrete culvert; chiseled square	621.52
T. 59 N., R. 6 W., near quarter cor. between secs. 8 and 9, 25 ft. S. and 15 ft. E. from junction of rd. S., on E. head wall of concrete culvert; chiseled square	627.09
T. 59 N., R. 6 W., near quarter cor. between secs. 5 and 8, 14 ft. N. and 15 ft. E. from crossroad, on E. head wall of concrete culvert; chiseled square	623.48
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 "1444 C W A 1935"	616.208
Maywood, about 1 mi. S. of, 275 ft. E. of junction of County Route V, on N. head wall of concrete culvert; chiseled square	605.20
U.S.C. & G.S. standard disk stamped "E 15 1933"	517.551

4. FROM CANTON QUADRANGLE AT SEC. 15, T. 60 N., R. 6 W., WEST TO DURHAM (by A. R. Friend in 1936)
(Continued from Canton quadrangle; see line 3.)

T. 60 N., R. 6 W., in SW 1/4 sec. 15, 100 ft. E. of steel bridge over Durgen Creek, 655 ft. W. of rd. N., S. of rd., in notch on S. side of 24-in. birch tree; copper nail and washer	507.20
T. 60 N., R. 6 W., quarter cor. between secs. 16 and 21, 27 ft. N. and 22 ft. W. from crossroads, in concrete post; standard tablet stamped "4 F 1936"	607.340
Reference mark 1, 45 ft. S. of tablet, in base of telephone pole; nails	605.73
Reference mark 2, 250 ft. N. of tablet, on W. head wall of concrete culvert; chiseled square	603.38

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

T. 60 N., R. 6 W., in sec. 13, 560 ft. W. of ford across North Fabius River, 20 ft. S. and 20 ft. E. from rd. forks, in notch on S. side of twin 12-in. elm tree; copper nail and washer	517.31
T-rd. S., in base of corner fence post; nails	630.24
T. 60 N., R. 7 W., quarter cor. between secs. 13 and 24, 25 ft. N. and 45 ft. W. from T-rd. W., in concrete post; standard tablet stamped "6 F 1936"	596.725
T-rd. S., in notch in base of 6-in. wild-cherry tree; crossed nails	539.82
T. 60 N., R. 7 W., in NE 1/4 sec. 23, 70 ft. N. and 50 ft. E. from ford across Middle Fabius River, in notch on N. side of 14-in. cottonwood tree; copper nail and washer	514.89
Durham, 1.2 mi. E. of, E. sixteenth cor. between secs. 23 and 26, T. 60 N., R. 7 W., 92 ft. N. and 15 ft. W. from T-rd. N., in NE. corner of farmyard, in top of 16-in. stump; copper nail and washer	620.82
U.S.C. & G.S. standard disk stamped "G 15 1933"	648.102

5. FROM PALMYRA SOUTH INTO MONROE CITY QUADRANGLE AT SEC. 12, T. 57 N., R. 6 W., THENCE WEST THROUGH WOODLAND TO COR. TPS. 57 AND 58 N., RS. 7 AND 8 W. (by A. R. Friend in 1936)

Palmyra, about 0.3 mi. S. of S. limits of, along U.S. Highway 61, 45 ft. W. of junction of rd. E., 45 ft. E. of Chicago, Burlington & Quincy R.R., in concrete post; standard tablet stamped "1440 C W A 1935"	664.734
Palmyra, about 1 mi. S. of, along U.S. Highway 61, 50 ft. W. of junction of rd. S., in notch on W. side of 10-in. wild-cherry tree; copper nail and washer	627.82
Palmyra, about 2.5 mi. S. of, along Chicago, Burlington & Quincy R.R., on NE. corner of concrete abutment of bridge over South River; chiseled square	570.11

(For balance in Monroe City quadrangle; see line 6.)

Woodland, 1 mi. E. of, near center sec. 9, T. 57 N., R. 6 W., N. of rd., in root on S. side of 16-in. elm tree; copper nail and washer	649.37
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	640.62
Woodland, 0.5 mi. W. of, 80 ft. N. and 150 ft. W. from T-rd. S., 45 ft. S. of SE. corner of brick church, in small cemetery, in root on W. side of 12-in. cedar tree; copper nail and washer	690.72
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 "T T 85 C 1936"	560.588
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	620.21
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	655.76

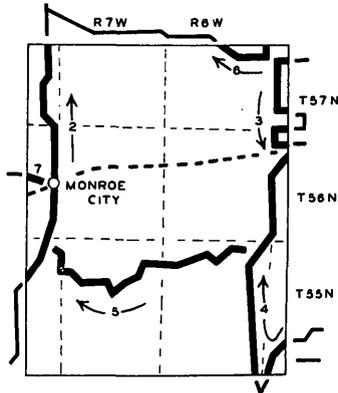
T. 57 N., R. 7 W., near N. sixteenth cor. between secs. 1 and 2, 28 ft. S. and 7 ft. E. from T-rd. S., on concrete head wall of iron pipe culvert; chiseled square	Feet 671.00
T. 57 N., R. 7 W., in S 1/2 sec. 3, 33 ft. S. of rd. at fence S., 17 ft. N. and 2 ft. E. from NW. corner of farmyard of Frank Courtney, in concrete post; standard tablet stamped "T T 86 C 1936"	545.707
T. 57 N., R. 7 W., in S 1/2 sec. 3, on SE. wing wall of bridge over South Fork of North River; chiseled square	534.74
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 NE. corner of concrete foundation of farm scales; chiseled square	642.76
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 8, 13 1/4 ft. N. and 118 ft. W. from T-rd. S., 15 ft. S. of SE. corner of White Franklin School, in concrete post; standard tablet stamped "T T 87 C 1936"	623.898
Tps. 57 and 58 N., Rs. 7 and 8 W., about 0.1 mi. E. of cor. of, 12 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. 24, 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. 24 and 25, 15 ft. N. and 170 ft. E. from County Route N at rd. E., in root on S. side of 14-in. cottonwood tree; copper nail and washer	645.36
(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	674.08
Ewing, 1.5 mi. W. and 0.5 mi. S. from, 315 ft. N. of quarter cor. between secs. 13 and 14, T. 60 N., R. 8 W., 48 ft. N. of T-rd. S., 75 ft. SW. of dwelling, in concrete post; standard tablet designated "7 B 1936"	676.092
(Continued in Canton quadrangle; see line 4.)	
7. FROM NEWARK QUADRANGLE SOUTH ABOUT 1 MILE ALONG COUNTY ROUTE N TO PHILADELPHIA, THENCE SOUTHEAST ALONG STATE HIGHWAY 56 TO PALMYRA, THENCE 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, 140 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. 58 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. 58 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. 58 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. 58 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 stamped "1542 E R A 1935"	675.231
T. 58 N., R. 7 W., about 0.2 mi. W. of quarter cor. between secs. 10 and 15, 18 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 14, 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 junction of rd. S., on N. head wall of concrete culvert; chiseled square	652.26
T. 58 N., Rs. 6 and 7 W., cor. secs. 7, 12, 13, and 18, 35 ft. N. and 65 ft. E. from highway at N.-S. fences, in concrete post; standard tablet stamped "1541 E R A 1935"	673.379
T. 58 N., R. 6 W., on line between secs. 7 and 18, at junction of rd. N., on N. head wall of concrete culvert; chiseled square	679.75
T. 58 N., R. 6 W., near quarter cor. between secs. 7 and 18, 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. 6 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. E., 30 ft. N. of entrance to brick dwelling, on W. head wall of concrete culvert; chiseled square	648.65

	<u>Feet</u>
Palmyra, 3.6 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 38 ft. W. from highway at fence E., in concrete post; standard tablet stamped "1537 E R A 1935"	638.709
Crossroad, on S. head wall of concrete culvert; chiseled square	505.91
Palmyra, about 1.8 mi. NW. of, on top of SW. abutment of bridge over North River; chiseled square	506.11
Junction of private rd. S., on E. end of iron pipe culvert; painted cross	660.71
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	649.04
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	627.38
Palmyra, State Highway 56 at Main Street, on top of concrete curb at SW. corner; chiseled square	641.31
Palmyra, at N. limits of, at junction of U.S. Highway 61, on N. head wall of concrete culvert; chiseled square	571.13
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 "1439 1935"	501.723
Junction of rd. E., on N. head wall of concrete culvert; chiseled square	489.22
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	615.48
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	535.96
Tps. 58 and 59 N., R. 6 W., cor. secs. 1, 2, 35, and 36, 15 ft. N. and 20 ft. E. from E.-W. crossroad, on N. head wall of concrete culvert; chiseled square	596.02
Taylor, 5 mi. S. of, 27 ft. N. and 50 ft. W. from crossroad, in concrete post; standard tablet stamped "1438 1935"	612.478
Junction of private rd. E., on N. end of iron pipe culvert; painted cross	607.01
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	601.89
Junction of private rd. W., on concrete base of gasoline pumps; chiseled square	584.02
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	511.14
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	495.31
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	522.26
Taylor, 0.8 mi. S. of, near private rd. W., on N. end of concrete pipe culvert; chiseled square	490.31
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)	494.029

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.

MONROE CITY QUADRANGLE
(Latitude 39°30'-39°45'; longitude 91°30'-91°45')

Marion, Monroe, and Ralls Counties



1. ISOLATED BENCHMARKS (not shown on diagram; by H. V. Rees in 1901-02) Accuracy of figures of elevation doubtful because of insufficient connections.
- | | <u>Feet</u> |
|--|-------------|
| West Ely, in front of post office (abandoned), on large rock; chiseled cross | 719.18 |
| Rensselaer, in front of Wabash Ry. sta.; top of rail | 734.9 |
| T. 56 N., R. 6 W., in SW 1/4 sec. 8, in NE. corner of stone foundation of porch; standard tablet stamped "727.5 Q" | 728.430 |
| Ely, in front of Chicago, Burlington & Quincy R.R. sta.; top of inside rail | 735.7 |
| T. 56 N., R. 7 W., in NW 1/4 NE 1/4 sec. 2, in N. face of stone foundation of dwelling; standard tablet stamped "729 Q" | 729.640 |
| T. 57 N., R. 7 W., in SW 1/4 SW 1/4 sec. 15, in SW. stone of coping around Mount Vernon Church; standard tablet stamped "664 Q" | 664.384 |
| Monroe City, in N. face of stone coping of First Baptist Church; standard tablet stamped "748 Q" | 748.692 |
| T. 55 N., Rs. 7 and 8 W., about 1.2 mi. N. of S. cor. secs. 1 and 6, 300 ft. from rd., in ledge of rock on creek bank; standard tablet stamped "650 Q" | 651.007 |
| T. 55 N., R. 7 W., in NE 1/4 SW 1/4 sec. 2, in NE. corner of stone school; standard tablet stamped "723 Q" | 723.780 |
| 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" | 527.599 |
2. FROM HUNNEWELL QUADRANGLE AT SEC. 2, T. 55 N., R. 8 W., NORTH THROUGH MONROE CITY INTO PALMYRA QUADRANGLE AT SEC. 12, T. 57 N., R. 8 W. (by J. H. Vinyard in 1934)
(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. Highway 24, in root of 24-in. elm tree; copper nail and washer | 709.12 |
| Monroe City, 3.5 mi. S. of, along U.S. Highway 24, 400 ft. E. of junction of rd. S., on N. head wall of culvert; chiseled square | 708.06 |
| Monroe City, 3 mi. S. of, along U.S. Highway 24, in SE 1/4 sec. 36, T. 56 N., R. 8 W., 50 ft. S. of highway, 47 ft. W. of rd., in concrete post; standard tablet stamped "69 C W A 1934" | 721.799 |
| Reference mark, 250 ft. E. of tablet, in root of 30-in. walnut tree; copper nail and washer | 717.84 |
| Monroe City, 2.6 mi. S. of, along U.S. Highway 24, 0.2 mi. 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 | 661.37 |
| Monroe City, 2.2 mi. S. of, along U.S. Highway 24, 1,000 ft. S. of Nolen School at crossroads, on E. head wall of culvert; chiseled square | 684.10 |
| Monroe City, 1.5 mi. S. of, along U.S. Highway 24, 500 ft. N. of farmhouse, E. of highway, on E. head wall of culvert; chiseled square | 691.85 |
| Monroe City, 1 mi. S. of, along U.S. Highway 24, 400 ft. S. of stone entrance to Elzea farm, W. of highway, in pasture, in root of 24-in. elm tree; copper nail and washer | 731.17 |
| Monroe City, at S. limits of, 126 ft. N. and 39 ft. E. from U.S. Highway 24 at rd. E., in concrete post; standard tablet stamped "70 C W A 1934" | 726.247 |
| Reference mark, 90 ft. S. of tablet, on N. head wall of side rd. culvert; chiseled square | 727.60 |
| Monroe City, 1 mi. N. of, E. cor. secs. 1 and 12, T. 56 N., R. 8 W., SW. of T-rd. W. 2 in root of 24-in. elm tree; copper nail and washer | 702.43 |
| Monroe City, 2 mi. N. of, cor. Tps. 56 and 57 N., Rs. 7 and 8 W., 24 ft. N. of T-rd. S., in concrete post; standard tablet stamped "T T 71 C W A 1934" | 733.288 |

	<u>Feet</u>
Reference mark, 50 ft. E. of tablet, on N. head wall of concrete culvert; chiseled square	731.42
Monroe City, 2 mi. N., thence 0.5 mi. W. from, quarter cor. between secs. 1 and 36, Tps. 56 and 57 N., R. 8 W., at T-rd. N., in root of 20-in. oak tree; copper nail and washer	725.82
Monroe City, 4 mi. N. of, near center sec. 25, T. 57 N., R. 8 W., opposite T-rd. W., on top of E. head wall of culvert; chiseled square	698.34
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-in. elm tree; copper nail and washer	725.22
Monroe City, about 6 mi. N. of, E. sixteenth cor. between secs. 13 and 24, T. 57 N., R. 8 W., 18 ft. N. and 40 ft. W. from corner N.-W., 2 ft. S. and 18 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 72 C W A 1934"	706.776
Reference mark, 400 ft. N. of tablet, in root of 12-in. hickory tree; copper nail and washer	704.76
Monroe City, 6.7 mi. N. of, in NE 1/4 sec. 13, T. 57 N., R. 8 W., NE. of T-rd. E., in 12-in. white-oak tree; copper nail and washer	637.76
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 Pork of North River, on bolt; top of nut	568.87
(Continued in Palmyra quadrangle; see line 2.)	
3. FROM HANNIBAL QUADRANGLE AT SEC. 7, T. 57 N., R. 5 W., SOUTH ALONG HIGHWAY 24 TO SEC. 31, T. 57 N., R. 5 W. (by B. A. Barnes in 1936)	
(Continued from Hannibal quadrangle; see line 2.)	
Culvert, on E. head wall; (mark not described)	631.83
Palmyra, 4.2 mi. S. of, 1.4 mi. S. of junction of U.S. Highway 61, on NE. abutment of concrete bridge K-290 over Bear Creek; chiseled square	622.40
Junction of rd. W., 100 ft. N. of rd. E.; surface of highway	644.7
Palmyra, 5.5 mi. S. of, 1 mi. N. of junction of U.S. Highway 36, at crossroad, on S. head wall of culvert; chiseled square	693.31
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 26-in. elm tree; copper nail and washer	725.18
(For balance in Hannibal quadrangle, see line 3.)	
Missouri-Kansas-Texas R.R. at rd. crossing, in telegraph pole; nail	699.36
(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)	
(Continued from Hannibal quadrangle; see line 3.)	
T. 55 N., R. 5 W., in SW 1/4 sec. 30, on State Highway 19, on N. head wall of concrete culvert; chiseled square	721.35
T. 55 N., Rs. 5 and 6 W., cor. secs. 25, 30, 31, and 36, on State Highway 19, S. of rd. W., N. of rd. E., on E. head wall of concrete culvert; chiseled square	720.34
State Highway 19 at rd. S.; surface of highway	721.2
State Highway 19, on N. head wall of concrete culvert; chiseled circle	713.50
(For balance in Farber quadrangle, see line 3.)	
Crossroads, on S. head wall of concrete culvert; painted square	706.10
Center, at post office, on SE. corner of concrete step; chiseled square	719.03
Junction of rd. W., on concrete sidewalk to dwelling; painted square	720.94
Center, 1.2 mi. N. of, at S. driveway to cemetery, on base of SW. concrete gatepost; chiseled square	726.22
Center, 2.6 mi. N. of, near E. sixteenth cor. between secs. 14 and 23, T. 55 N., R. 6 W., 15 ft. N. of highway at produced corner from W.-S., 3 ft. S. and 25 ft. W. from SE. corner of yard, in concrete post; standard tablet stamped "T T 4 C 1935"	714.006
T. 55 N., R. 6 W., in sec. 14, near junction of rd. W. to farmhouse, at base of corner fence post; surface of ground	712.1
Center, 3.5 mi. N. of, in NE 1/4 sec. 14, T. 55 N., R. 6 W., 125 ft. N. of lane W. to farmhouse, 25 ft. W. of highway, in root of 12-in. hickory tree; copper nail and washer	698.39
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	579.65
County Route H, at S. edge of Salt River Valley, in W. side of concrete culvert; iron pin	531.78
Crossroad; surface of highway	520.6
Center, 5.8 mi. N. of, along County Route H, in NW 1/4 sec. 2, T. 55 N., R. 6 W., 64 ft. S. and 36 ft. E. from crossroad, 46 ft. N. and 4 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 3 C 1935"	520.340
Reference mark, 170 ft. E. of tablet, in root of 30-in. oak tree; copper nail and washer	520.13
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	524.05
T-rd. N., on W. end of concrete culvert; chiseled square	519.53

	Feet
T. 56 N., R. 6 W., in SW 1/4 sec. 36, at driveway to dwelling of Fred Howard, on N. end of concrete culvert; chiseled square	534.36
Rd. at lane W., at base of telephone pole; surface of ground	534.2
Top of hill, E. of rd., in root of 12-in. hickory tree; nail	585.60
Spalding, 170 ft. E. of SE. corner of store, on E. bank of small creek, in root of 36-in. elm tree; copper nail and washer	530.53
Rd. fork S., 110 ft. W. of, in root on W. side of oak tree; nail	568.39
Spalding, 0.7 mi. W. of, 406 ft. S. of quarter cor. between secs. 24 and 25, T. 56 N., R. 6 W., 44 ft. S. and 110 ft. W. from SW. corner of Salt Lick Church, in concrete post; standard tablet stamped "T T 2 C 1935"	647.707
T. 56 N., R. 6 W., in sec. 24, at private rd. W., opposite mail box, on N. end of concrete culvert; painted square	669.07
Spalding, 1.8 mi. N. of, quarter cor. between secs. 13 and 24, T. 56 N., R. 6 W., 120 ft. S. of crossroads, 80 ft. E. of dwelling of A. E. Hogan, in root of 20-in. oak tree; copper nail and washer	629.04
T. 56 N., R. 6 W., near center sec. 13, 35 ft. N. and 30 ft. E. from center of creek opposite abandoned rd. S., in root on W. side of 30-in. elm tree; crossed nails	608.53
T. 56 N., R. 6 W., near quarter cor. between secs. 12 and 13, 50 ft. S. and 80 ft. W. from fence corner, in root on SW. side of 24-in. locust tree; copper nail and washer	702.36
T. 56 N., R. 6 W., E. sixteenth cor. sec. 12, 10 ft. S. of rd. corner from N.-W., 10 ft. S. and 18 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 1 C 1935"	712.519
T.-rd. S., in NE. corner of field, at base of corner fence post; surface of ground	734.1
T. 56 N., R. 5 W., near quarter cor. between secs. 6 and 7, 10 ft. N. and 30 ft. W. from T.-rd. N., on SW. corner of N. head wall of concrete culvert; chiseled square	754.06
Bridge over branch, on E. end of N. concrete abutment; painted square	684.44
5. FROM SEC. 3, T. 55 N., R. 6 W., WEST THROUGH SOUTH PART OF QUADRANGLE TO SEC. 36, T. 56 N., R. 8 W. (by E. A. Barnes in 1935)	
T. 55 N., R. 6 W., in N 1/2 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	545.88
Top of hill, 40 ft. N. of private lane W., in root on SW. side of 14-in. oak tree; crossed nails	680.46
Crossroads, on W. concrete head wall of culvert; chiseled square	680.27
T. 55 N., R. 6 W., in SW 1/4 sec. 4, on NE. wing wall of steel bridge over Salt River; chiseled square	535.38
T. 55 N., R. 6 W., in sec. 4, near T.-rd. N., in root on SE. side of hickory tree; crossed nails	528.22
Center, 5.8 mi. N. and 3 mi. W. from, in NE 1/4 sec. 4, T. 55 N., R. 6 W., 110 ft. S. and 19 ft. E. from T.-rd. W., 2 ft. S. and 4 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 5 C 1935"	527.101
T.-rd. S., 20 ft. W. of, on S. head wall of concrete culvert; painted square	526.65
T. 55 N., R. 6 W., near W. sixteenth cor. sec. 5, 500 ft. S. of T.-rd. E., 50 ft. W. of rd., in root on NE. side of 36-in. elm tree; copper nail and washer	542.11
T. 55 N., R. 6 W., 0.1 mi. W. of center sec. 5, 30 ft. S. of T.-rd. N., in root on NE. side of 14-in. oak tree; crossed nails	609.87
T. 55 N., R. 6 W., near quarter cor. between secs. 5 and 6, in root on SE. side of 12-in. walnut tree; crossed nails	595.95
T. 55 N., R. 6 W., near E. sixteenth cor. sec. 6, 85 ft. W. of rd. corner from W.-N., on S. end of bottom concrete step of Ariel Church; chiseled square	662.11
T.-rd. N., 120 ft. W. of, on SW. concrete wing wall of small bridge over creek; painted square	575.17
T. 55 N., R. 6 and 7 W., 1 mi. N. of cor. secs. 1, 6, 7, and 12, 7 ft. E. of stone, 25 ft. E. of T.-rd. W., 9 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 6 C 1935"	667.365
T. 55 N., R. 7 W., in NE 1/4 sec. 1, 540 ft. W. of rd., 120 ft. N. of T.-rd. W., 60 ft. S. of abandoned farmhouse, in root of 14-in. cedar tree; copper nail and washer	727.74
T. 55 N., R. 7 W., in W 1/2 sec. 2, on NE. corner of concrete step of Rock Lick School; chiseled square	733.78
T. 55 N., R. 7 W., in W 1/2 sec. 2, 1 ft. W. of NE. corner of Rock Lick School, about 1 ft. above ground, set horizontally in front face of school building; standard tablet	733.877
T. 55 N., R. 7 W., 0.1 mi. E. of cor. secs. 2, 3, 10, and 11, 25 ft. S. of T.-rd. N., in concrete post; standard tablet stamped "T T 7 C 1935"	682.253
Crossroads, on concrete base of corner fence post; painted square	717.99
T. 55 N., R. 7 W., near center sec. 10, opposite farmhouse of J. Q. Hagar, 15 ft. E. of rd., in root of 8-in. elm tree; copper nail and washer	728.97
T. 55 N., R. 7 W., near center sec. 15, 120 ft. W. of rd., on E. end of bottom step of Oakland Church; chiseled square	622.16
T.-rd. W., in root of 20-in. oak tree; crossed nails	562.58
T. 55 N., R. 7 W., in NE 1/4 sec. 16, 30 ft. W. of rd. at lane S. to abandoned farmhouse, 20 ft. S. of rd., in root on NE. side of 10-in. oak tree; copper nail and washer	692.02
T.-rd. E., SE. of, in root of 10-in. oak tree; crossed nails	690.91
T. 55 N., R. 7 W., W. sixteenth cor. sec. 9, 15 ft. S. and 15 ft. W. from T.-rd. W., near base, in 10-in. elm tree (used as telephone pole); nail	589.48

	Feet
T. 55 N., R. 7 W., center sec. 8, 9 ft. S. of SE. corner of yard, 19 ft. N. of rd., in concrete post; standard tablet stamped "T 8 C 1955"	673.896
T-rd. E., 30 ft. S. of, on E. head wall of concrete culvert; painted square	619.75
Bridge over creek, on NW. corner of, on T-beam; painted square	629.71
T. 55 N., R. 7 W., about 500 ft. N. of cor. secs. 5, 6, 7, and 8, on Monroe-Ralls county line, on NE. corner of concrete sidewalk to farmhouse of I. P. Jewell; chiseled square	700.74
T-rd. W., near base, in corner fence post; nail	674.81
T. 55 N., R. 7 W., near W. sixteenth cor. sec. 6, 15 ft. S. and 15 ft. E. from T-rd. E., on concrete base of corner fence post; chiseled square	709.50
T. 55 N., R. 7 W., 0.5 mi. N. of W. quarter cor. sec. 6, 25 ft. S. and 25 ft. E. from T-rd. N., in concrete post; standard tablet stamped "T 9 C 1935"	701.963
T. 55 N., R. 8 W., in NE 1/4 sec. 1, on SW. concrete wing wall of bridge over Little Indian Creek; chiseled square	642.43
T-rd. W., on E. head wall of concrete culvert; painted square	665.37

6. FROM PALMYRA QUADRANGLE AT SEC. 12, T. 57 N., R. 6 W., SOUTH ABOUT 1.5 MILES, THENCE WEST INTO PALMYRA QUADRANGLE AT SEC. 9, T. 57 N., R. 6 W. (by A. R. Friend in 1936)
(Continued from Palmyra quadrangle; see line 5.)

Palmyra, 3 mi. S. of, along U.S. Highway 61, 100 ft. S. of junction of U.S. Highway 24, 55 ft. N. and 2 ft. W. from Chicago, Eurlington & Quincy R.R. at rd. crossing, in concrete post; standard tablet stamped "T 8 C 1936"	640.568
T-rd. S., in root on N. side of 12-in. walnut tree; crossed nails	580.94
T. 57 N., R. 6 W., quarter cor. between secs. 11 and 14, 35 ft. S. and 125 ft. E. from crossroads, in root on S. side of twin 14-in. hedge tree; copper nail and washer	605.27
T. 57 N., R. 6 W., quarter cor. between secs. 10 and 15, 6 ft. S. and 20 ft. E. from T-rd. N., on top of SW. wing wall of concrete bridge; chiseled square	594.02
Woodland, 2 mi. SE. of, near cor. secs. 9, 10, 15, and 16, T. 57 N., R. 6 W., 100 (? 20) ft. S. and 22 (? 90) ft. E. from T-rd. S., 36 ft. E. of 30-in. post-oak tree, in concrete post; standard tablet stamped "T 84 C 1938"	642.826

(Continued in Palmyra quadrangle; see line 5.)

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

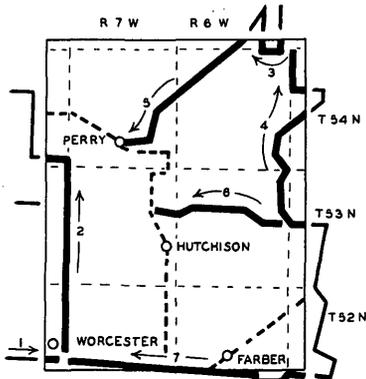
U.S.C. & G.S. standard disk stamped "T 135 1935"	727.643
Monroe City, about 0.2 mi. W. of W. limits of, 25 ft. S. and 10 ft. E. from U.S. Highway 36 at entrance to brick dwelling, in root on N. side of 20-in. elm tree; copper nail and washer	732.43
T-rd. N., 25 ft. S. of, on concrete base of corner fence post; chiseled square	732.38

(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 Salisbury.

FARBER QUADRANGLE
(Latitude 39°15'-39°30'; longitude 91°30'-91°45')

Audrain, Monroe, and Ralls Counties



1. FROM FLORIDA QUADRANGLE, IN 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 "T T Sta No 23 M 1926"	<u>Feet</u> 758.414
Reference mark, 800 ft. S. of tablet, in yard, in root on S. side of 20-in. maple tree; copper nail and washer	773.94

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	777.08
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	771.28
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 35 ft. W. from rd. at fence W., 243 ft. S. and 35 ft. W. from T-rd. E. at W. cor. secs. 7 and 18, T. 52 N., R. 7 W., in concrete post; standard tablet stamped "1931 E R A 1935"	765.235
Reference mark, 400 ft. N. of tablet, in root of 24-in. elm tree; copper nail and washer	764.02
T. 52 N., R. 7 W., in NW. cor. sec. 7, in yard of United Church, in root of 18-in. elm tree; copper nail and washer	764.69
Tps. 52 and 53 N., Rs. 7 and 8 W., cor. of, 400 ft. S. of T-rd. E., in root of 24-in. elm tree; copper nail and washer	755.95
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	741.64
T. 53 N., R. 8 W., near NE. cor. sec. 36; top of S. post of W. rail of steel bridge	740.86
T. 53 N., Rs. 7 and 8 W., quarter cor. between secs. 25 and 30, 36 ft. N. and 48 ft. E. from crossroads, 8 ft. N. of fence, in concrete post; standard tablet stamped "54 C W A 1934"	756.737
Reference mark, 500 ft. W. of tablet, in root of 24-in. elm tree; copper nail and washer	756.91
T. 53 N., R. 8 W., near SE. cor. sec. 24, W. of rd., in root of 18-in. elm tree; copper nail and washer	745.64
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	748.69
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	753.21
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 D at crossroad, 2 ft. N. of fence, in concrete post; standard tablet stamped "53 C W A 1934"	749.000
Reference mark, 75 ft. E. of tablet, on concrete base of fence post; chiseled square	747.68
T. 53 N., R. 7 W., near NW. cor. sec. 7, E. of rd., in root of 15-in. elm tree; copper nail and washer	747.66
Tps. 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	722.42

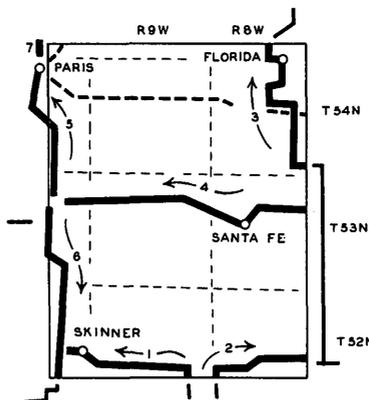
(Continued in Florida quadrangle; see line 3.)

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 0.8 mi. S. of, near S. cor. secs. 35 and 36, T. 55 N., R. 6 W., 63 ft. N. and 37 ft. E. from County Route P at rd. E., 42 ft. N. of Highway 19 W. produced, 30 ft. N. of fence corner, in concrete post; standard tablet stamped "1422 C W A 1934"	<u>Feet</u> 713.463
(Continued in Monroe City quadrangle; see line 4.)	
4. FROM VANDALIA QUADRANGLE AT SEC. 7, T. 53 N., R. 5 W., NORTH INTO MONROE CITY QUADRANGLE AT SEC. 31, T. 55 N., R. 5 W. (by Cornish Beck in 1936) (Continued from Vandalia quadrangle; see line 4.)	
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	753.00
T. 53 N., R. 6 W., quarter cor. between secs. 12 and 13, 6 ft. S. and 27 ft. W. from T-rd. N., on head wall of culvert; chiseled square	747.53
T. 53 N., R. 6 W., quarter cor. between secs. 1 and 12, 55 ft. N. and 28 ft. E. from crossroads, 8 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 14 C 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	731.45
Tps. 53 and 54 N., R. 6 W., 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. 54 N., R. 6 W., W. sixteenth cor. between secs. 25 and 36, 12 ft. S. and 13 ft. W. from crossroads, on head wall of culvert; chiseled square	751.84
Madisonville, 2 mi. SW. of, in NE 1/4 sec. 25, T. 54 N., R. 6 W., 25 ft. N. (? S.) and 64 ft. E. (? W.) from rd. forks, 4 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 13 C 1935"	737.407
T. 54 N., R. 5 W., in SE 1/4 sec. 19, 350 ft. SW. of rd. forks, on N. head wall of concrete bridge; chiseled square	658.57
(For balance in Vandalia quadrangle; see line 4.)	
T. 54 N., R. 5 W., in W 1/2 sec. 18, 135 ft. W. of T-rd. N., on S. head wall of culvert; chiseled square	664.50
Ford across creek, 90 ft. SE. of, 6 ft. E. of rd., in E. side of 36-in. elm tree; nail	606.48
Madisonville, 1.8 mi. NW. of, in NW 1/4 sec. 7, T. 54 N., R. 5 W., 28 ft. S. of rd. corner, 2 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 12 C 1935"	693.185
Ford across creek, 45 ft. NW. of, in root on E. side of 36-in. sycamore tree; nail	619.76
Tps. 54 and 55 N., R. 5 W., on line between secs. 6 and 31, 18 ft. N. and 12 ft. E. from T-rd. S., in W. side of telephone pole; nail	724.93
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 PERRY (by Cornish Beck in 1936)	
Center, about 0.8 mi. S. and 1.3 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 2.6 mi. SW. of, 45 ft. E. of 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 48 ft. W. from crossroads, 48 ft. W. of N.-S. crossroad, 3 ft. E. of transmission-line pole, in concrete post; standard tablet stamped "1421 C W A 1934"	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	733.53
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 400 ft. E. of W. 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., W. sixteenth cor. between secs. 24 and 25, 0.8 mi. N. of junction of State Highway 26, 91 ft. N. and 43 ft. E. from E.-W. crossroad, 2 ft. E. of fence, in concrete post; standard tablet stamped "1420 C W A 1934"	743.554
Perry, 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	746.99
Perry, about 1 mi. E. of, in SE 1/4 sec. 26, T. 54 N., R. 7 W., 20 ft. S. and 40 ft. W. from junction of rd. S., on head wall of culvert; chiseled square	739.81
Perry, near E. limits of, 83 ft. N. and 158 ft. W. from N.-S. crossroad, 3 ft. N. of picket fence around park, in concrete post; standard tab- let stamped "1408 C W A 1934"	701.816
U.S.C. & G.S. standard disk stamped "X 132 1935"	682.456

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., 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"	Feet 757.578
T. 53 N., R. 6 W., cor. secs. 13, 14, 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	738.01
T. 53 N., R. 6 W., cor. secs. 14, 15, 22, and 23, 34 ft. S. and 40 ft. E. from crossroads, 13 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 18 C 1935"	716.0 738.372
T. 53 N., R. 6 W., cor. secs. 15, 16, 21, and 22, 9 ft. S. and 120 ft. W. from rd. at N.-S. fence, on SW. wing wall of culvert; chiseled square	729.59
T. 53 N., R. 6 W., cor. secs. 16, 17, 20, and 21, 365 ft. W. of crossroads, on NE. wing wall of bridge; chiseled square	719.83
T. 53 N., R. 6 W., E. sixteenth cor. between secs. 18 and 19, 23 ft. N. of T-rd. S., 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 17 C 1935"	741.002
T. 53 N., Rs. 6 and 7 W., near cor. secs. 13, 16, 19, and 24, 60 ft. N. and 4 ft. E. from NW. corner of dwelling, in root on N. side of 26-in. maple tree; copper nail and washer	747.21
T. 53 N., R. 7 W., cor. secs. 13, 14, 23, and 24, 16 ft. S. and 35 ft. E. from State Highway 19 at rd. E., on head wall of culvert; chiseled square	748.85 750.776
U.S.C. & G.S. standard disk stamped "T 132 1935"	
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., E. cor. secs. 25 and 36, 20 ft. S. and 20 ft. W. from T-rd. W., inside fence, in concrete post; standard tablet stamped "T T Sta No 4 S 1927"	763.037
T. 52 N., R. 6 W., cor. secs. 25, 26, 35, and 36, 18 ft. N. and 15 ft. W. from T-rd. N., in corner fence post; nail	770.04
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	769.77
T. 52 N., R. 6 W., on line between secs. 26 and 35, 32 ft. N. and 15 ft. E. from T-rd. E., in W. side of 32-in. elm tree; nail	748.70
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	738.40
T. 52 N., R. 6 W., in SE 1/4 sec. 27, 18 ft. S. and 12 ft. W. from T-rd. S., on W. edge of pipe culvert; painted square	742.23
T. 52 N., R. 6 W., on line between secs. 27 and 28, 12 ft. N. and 21 ft. W. from County Route AA at rd. E., on head wall of culvert; chiseled square	747.58
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 3 S 1927"	764.360
T. 52 N., R. 6 W., cor. secs. 28, 29, 32, and 33, 7 ft. N. and 21 ft. E. from crossroads, on head wall of culvert; chiseled square	747.32
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	760.36
Laddonia, 0.5 mi. N., thence 1 mi. E. from, cor. secs. 25, 30, 31, and 36, T. 52 N., Rs. 6 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"	771.128
Laddonia, 0.5 mi. N. of, cor. secs. 25, 26, 35, and 36, T. 52 N., R. 7 W., 12 ft. S. and 30 ft. E. from U.S. Highway 54 at crossroad, on head wall of culvert; chiseled square	769.84 779.710
U.S.C. & G.S. standard disk stamped "B 138 1935"	
Laddonia, 0.5 mi. N., thence 1 mi. W. from, cor. secs. 26, 27, 34, and 35, T. 52 N., R. 7 W., 12 ft. S. and 20 ft. E. from crossroads, on head wall of concrete culvert; chiseled square	771.64
Laddonia, 0.5 mi. N., thence 2 mi. W. from, cor. secs. 27, 28, 33; and 34, T. 52 N., R. 7 W., 24 ft. S. and 30 ft. W. from crossroads, 50 ft. N. of dwelling of John Braden, in concrete post; standard tablet stamped "T T Sta No 1 S 1927"	776.432
Laddonia, 0.5 mi. N., thence 3 mi. W. from, cor. secs. 28, 29, 32, and 33, T. 52 N., R. 7 W., 12 ft. S. and 320 ft. W. from crossroads, on SE. wing wall of bridge; chiseled square	759.07
Laddonia, 0.5 mi. N., thence 4 mi. W. from, cor. secs. 29, 30, 31, and 32, T. 52 N., R. 7 W., 7 ft. S. and 40 ft. W. from County Route B at crossroad, on head wall of culvert; chiseled square	776.50
For additional level lines along Alton R.R. and U.S. Highway 54 and State Highways 19 and 26, refer to United States Coast and Geodetic Survey second-order lines, Louisiana to Mexico and Laddonia to Edina.	

FLORIDA QUADRANGLE
(Latitude 39°15'-39°30'; longitude 91°45'-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)
- | | |
|--|-----------------|
| T. 52 N., R. 9 W., E. cor. secs. 25 and 36, 18 ft. E. of T-rd. W., 83 ft. N. and 20 ft. E. from T-rd. E. at W. cor. secs. 30 and 31, T. 52 N., R. 8 W., in concrete post; standard tablet stamped "T T Sta No 21 M 1926" | Feet
782.547 |
| Reference mark, 480 ft. S. of tablet, on concrete culvert; chiseled square | 775.64 |
| 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 | 712.08 |
| T. 52 N., R. 9 W., in W 1/2 sec. 26, 170 ft. N. and 10 ft. W. from T-rd. E., 15 ft. S. of T-rd. W., on top of SW. corner of head wall of concrete culvert; chiseled square | 722.38 |
| Skinner, 4.5 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 | 763.62 |
| Skinner, 4.2 mi. E. of, on State Highway 15, in top of NW. wing wall of concrete bridge 548 over Fish Branch; standard tablet stamped "No 1 W 1929 Mo" | 749.499 |
| Reference mark, 160 ft. E. of tablet, on top of concrete culvert; chiseled square | 743.86 |
| Skinner, 4.2 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 | 741.547 |
| 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 | 782.39 |
| 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 | 776.06 |
| Skinner, 1 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 | 796.83 |
| Skinner, cor. secs. 23, 24, 25, and 26, T. 52 N., R. 10 W., 24 ft. S. and 18 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 15 M 1926" | 805.264 |
| Reference mark, 210 ft. S. of tablet, on top of E. wall of concrete culvert; chiseled square | 803.73 |
2. FROM MEXICO QUADRANGLE AT SEC. 30, T. 52 N., R. 8 W., EAST INTO FARBEN QUADRANGLE AT POINT ABOUT 1.5 MILES SOUTH OF WORCESTER (by D. W. Weber in 1929)
- | | |
|--|---------|
| Worcester, 1.5 mi. S., thence 3.8 mi. W. from, near cor. secs. 29, 30, 31, and 32, T. 52 N., R. 8 W., 42 ft. N. and 12 ft. E. from T-rd. S., 8 ft. E. of gate, in root on S. side of 15-in. box-elder tree; copper nail and washer | 783.63 |
| Worcester, 1.5 mi. S., thence 2.8 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 | 768.14 |
| 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" | 779.614 |
| Reference mark, 750 ft. E. of tablet, in root of twin wild-cherry tree; copper nail and washer | 776.57 |

Worcester, 1.5 mi. S., thence 0.3 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	Feet 749.07
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	755.94

(Continued in Farber quadrangle; see line 1.)

3. FROM FARBER QUADRANGLE AT SEC. 36, T. 54 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., N. cor. secs. 1 and 2, at T-rd. S., in root of 15-in. hedge tree; copper nail and washer	748.59
Tps. 53 and 54 N., R. 8 W., approximate quarter cor. between secs. 2 and 35, 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 "64 C W A 1934"	749.892
Reference mark, 200 ft. E. of tablet, N. of rd., in root of 18-in. ash tree; copper nail and washer	749.83
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	748.20
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	744.25
T. 54 N., R. 8 W., quarter cor. between secs. 14 and 23, 37 ft. S. and 15 ft. W. from State Highway 26 at crossroad, in top of N. end of W. head wall of concrete culvert; standard tablet stamped "65 C W A 1934"	696.016
Reference mark, 120 ft. E. of tablet, on S. head wall of culvert; chiseled square	697.99
T. 54 N., R. 8 W., 0.2 mi. W. of SE. cor. sec. 15, on State Highway 26, on N. head wall of twin culvert; chiseled square	683.78
T. 54 N., R. 8 W., near cor. secs. 15, 16, 21, and 22, SE. of junction of State Highways 26 and 107 and rd. S., on E. head wall of culvert; chiseled square (elev. determined by U.S.C. & G.S.)	664.792
T. 54 N., R. 8 W., in NE 1/4 sec. 16, 200 ft. S. of farm entrance, W. of State Highway 107, in root of 48-in. elm tree; copper nail and washer	698.17
Florida, 1 mi. S. of, near quarter cor. between secs. 9 and 10, T. 54 N., R. 8 W., W. of State Highway 107, 200 ft. N. of farm entrance, in root of 15-in. oak tree; copper nail and washer	667.34
Florida, 0.5 mi. S. of, along State Highway 107, about 0.1 mi. E. of cor. secs. 3, 4, 9, and 10, T. 54 N., R. 8 W., in top of E. end of S. abutment of bridge over Salt River; standard tablet stamped "66 C W A 1934"	587.825
Reference mark, 600 ft. N. of tablet, 30 ft. N. of N. end of steel span, on W. curb of bridge; chiseled square	588.06
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	639.77

(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. 53 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	748.08
Concrete culvert, on S. head wall; chiseled square	721.33
Corner fence post, on concrete base; painted square	731.33
T. 53 N., R. 8 W., quarter cor. between secs. 10 and 15, 58 ft. N. and 2 ft. E. from County Route D at fence N., in concrete post; standard tablet stamped "1923 E R A 1935"	748.569
T. 53 N., R. 8 W., on line between secs. 10 and 15, at rd. fork E., in root of 16-in. white-oak tree; crossed nails	721.88
Santa Fe, about 1.8 mi. NE. of, in NE 1/4 sec. 16, T. 53 N., R. 8 W., on top at center of N. head wall of concrete culvert over Elm Creek; chiseled square	649.83
Santa Fe, about 1.4 mi. NE. of, in sec. 16, T. 53 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	711.48
Santa Fe, 1.1 mi. NE. of, near center sec. 16, T. 53 N., R. 8 W., on SE. concrete wing wall of steel bridge over South Fork of Salt River; chiseled square	632.43
Santa Fe, 14 ft. N. and 14 ft. W. from NE. corner of schoolhouse, 43 ft. S. of rd., in concrete post; standard tablet stamped "1924 E R A 1935"	717.409
T-rd. S., 40 ft. W. of, in root on N. side of 12-in. hickory tree; crossed nails	718.58
Santa Fe, 1.1 mi. NW. of, in NE 1/4 sec. 18, T. 53 N., R. 8 W., on NW. wing wall of steel bridge over Long Branch Creek; chiseled square	630.99
County Route D at rd. N., in root of 18-in. oak tree; crossed nails	717.29
T. 53 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	734.38
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. N. of fence, in concrete post; standard tablet stamped "1925 E R A 1935"	759.682

	<u>Feet</u>
T. 53 N., R. 9 W., near quarter cor. between secs. 11 and 14, on N. head wall of concrete culvert; painted square	734.23
Phillips triangulation sta.; U.S.C. & G.S. standard disk stamped "Phillips 1934"	763.551
U.S.C. & G.S. standard reference disk stamped "Phillips 2 1934"	763.099
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	760.17
T. 53 N., R. 9 W., on line between secs. 10 and 15, at top of hill, in root of 18-in. maple tree; crossed nails	760.64
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	764.91 766.43
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	745.66
T. 53 N., R. 9 W., W. sixteenth cor. between secs. 8 and 17, 38 ft. S. of County Route D at rd. N., 2 ft. S. of fence corner, in concrete post; standard tablet stamped "1926 E R A 1935"	748.352
T. 53 N., R. 9 W., W. sixteenth cor. between secs. 7 and 18, 20 ft. S. and 25 ft. W. from County Route D at rd. S., in root of 14-in. elm tree; copper nail and washer	770.83
County Route D at crossroad, NE. of, on concrete base of corner fence post; chiseled square	775.35
T. 53 N., R. 10 W., 300 ft. E. of quarter cor. between secs. 12 and 13, on County Route D, on SW. concrete abutment of small bridge over branch; chiseled square	739.39
County Route D at crossroad, NE. of, on concrete base of corner fence post; chiseled square	779.48
T. 53 N., R. 10 W., cor. secs. 10, 11, 14, and 15, 35 ft. S. and 35 ft. W. from junction of State Highway 15 and County Route D, on center of S. head wall of concrete culvert; chiseled square	779.00
T-rd. W., on rock head wall of iron pipe culvert; painted square	788.98
5. 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. N. Davis, on center of W. head wall of concrete culvert; chiseled square	699.95 738.9
Junction of rd. E.; surface of highway	
T. 54 N., R. 10 W., near quarter cor. between secs. 34 and 35, near junction of rd. E., on S. head wall of concrete culvert; chiseled square	747.75
Paris, 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"	757.787 737.51
Crossroad, on SE. head wall of concrete culvert; chiseled square	
Paris, about 2.5 mi. S. of, on top of upstream end of S. pier of S. truss of bridge over Elk Fork of Salt River; standard tablet (set by water-resources branch of U.S.Geol. Survey)	645.998
Paris, 1.5 mi. S. of, center of E. head wall of concrete culvert; chiseled square	675.41
Paris, 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	739.90
U.S.C. & G.S. standard disk stamped "J 133 1935"	695.740
U.S.C. & G.S. standard disk stamped "K 133 1935"	698.445
Paris, 10 ft. S. and 78 ft. W. from W. entrance to courthouse, in concrete sidewalk; standard tablet stamped "T T Sta No 19 M 1926"	681.311
U.S.C. & G.S. standard disk stamped "C 124 1935"	660.855
6. FROM SEC. 11, T. 53 N., R. 10 W., SOUTH TO SKINNER, INCLUDING THAT PART OF THE LINE IN MADISON QUADRANGLE (by B. A. Barnes in 1935)	
T. 53 N., R. 10 W., cor. secs. 22, 23, 26, and 27, 30 ft. N. and 25 ft. W. from State Highway 15 at crossroad, on center of N. head wall of concrete culvert; chiseled square	778.58
Top of hill, 80 ft. S. of filling sta., in root of 20-in. walnut tree; crossed nails	802.49
T. 53 N., R. 10 W., on line between secs. 34 and 35, on State Highway 15, in top of upstream end of S. abutment of bridge; standard tablet (set by water-resources branch of U.S.Geol. Survey)	753.185
Tps. 52 and 53 N., R. 10 W., cor. secs. 2, 3, 34, and 35, 30 ft. N. and 40 ft. E. from State Highway 15 at crossroad, on center of N. head wall of concrete culvert; chiseled square	797.08
Farmhouse, in front yard of, in root of 18-in. ash tree; crossed nails	789.61
U.S.C. & G.S. standard reference disk stamped "T T Sta No 16 M 1926 No 2"	796.715
(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	780.44
T. 52 N., R. 10 W., on line between secs. 11 and 12, on NE. concrete wing wall of steel bridge over Youngs Creek; chiseled square	746.91
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	774.25
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	799.54

Skinner, 0.9 mi. N. of, on S. sixteenth cor. between secs. 23 and 24, T. 52 N., R. 10 W., on SW. concrete wing wall of steel bridge over branch; chiseled square

Feet
791.10

7. FROM PARIS NORTH ALONG U.S. HIGHWAY 24 INTO SHELBYNA 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)

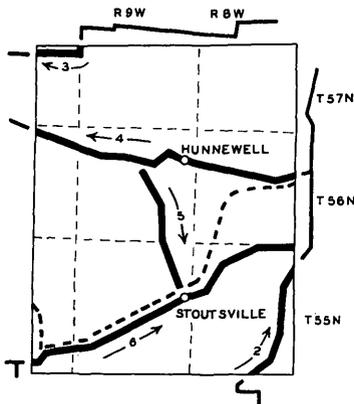
728.09

(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 $39^{\circ}30' - 39^{\circ}45'$; longitude $91^{\circ}45' - 92^{\circ}00'$)

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	758.5
Lakenan, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail	733.0
Lakenan, 0.3 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 N.; iron post stamped "747 Q"	753.266
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)	*745.555
Hunnewell, in SW. corner of stone foundation of drug store of A. C. Spalding; standard tablet stamped "758 Q"	*759.262
T. 57 N., R. 9 W., near S. quarter cor. sec. 35; iron post stamped "754 Q"	*754.740
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 McClintock; standard tablet stamped "754 Q"	*755.027
T. 55 N., R. 10 W., near N. quarter cor. sec. 1; iron post stamped "691.5 Q"	*692.266

2. FROM FLORIDA QUADRANGLE AT SEC. 33, T. 55 N., R. 8 W., NORTHEAST, THENCE NORTH INTO 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	591.01
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	679.19
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	563.15
T. 55 N., R. 8 W., near SW. cor. sec. 26, at angle in rd. NW., in root of 15-in. oak tree; nails	696.11
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	706.05

*Accuracy doubtful because of insufficient connections.

T. 55 N., R. 8 W., quarter cor. between secs. 23 and 26, 19 ft. N. and 28 ft. E. from T-rd. N., 400 ft. W. of schoolhouse, in concrete post; standard tablet stamped "67 C W A 1935"	<u>Feet</u> 705.512
Reference mark, 400 ft. N. of tablet, in notch on W. side of 18-in. hickory tree; copper nail and washer	708.96
T. 55 N., R. 8 W., in NE 1/4 sec. 23, 75 ft. E. of gate to pasture, in root of 18-in. oak tree; copper nail and washer	716.01
T. 55 N., R. 8 W., in SE 1/4 sec. 14, near junction of private rd., W. of rd., in root of 15-in. hickory tree; copper nail and washer	665.10
T. 55 N., R. 8 W., cor. secs. 11, 12, 13, and 14, 23 ft. S. and 18 ft. E. from crossroads, 2 ft. S. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 68 C W A 1934"	707.377
Reference mark, NW. of crossroads, on top of SE. corner of concrete foundation of fence post; (mark not described)	709.51
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	608.37

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

3. FROM NEWARK QUADRANGLE AT SEC. 12, T. 57 N., R. 10 W., SOUTHWEST INTO SHELBYNA 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	734.34
T. 57 N., R. 10 W., near quarter cor. between secs. 11 and 14, at top of hill, N. of rd., 10 ft. inside pasture, in root of 30-in. elm tree; copper nail and washer	738.21

(Continued in Shelbyna quadrangle; see line 2.)

4. FROM MONROE CITY QUADRANGLE WEST ALONG U.S. HIGHWAY 36 INTO SHELBYNA 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, 14, and 15, 18 ft. N. and 18 ft. W. from crossroad on Marion-Monroe county line, on head wall of culvert; chiseled square	717.16
T. 56 N., R. 8 W., cor. secs. 9, 10, 15, and 16, 29 ft. S. and 27 ft. E. from crossroad on Marion-Monroe county line, in concrete post; standard tablet stamped "1534 E R A 1935"	731.203
T. 56 N., R. 8 W., near cor. secs. 8, 9, 16, and 17, 21 ft. S. and 15 ft. W. from junction of rd. S. on Marion-Monroe county line, on head wall of culvert; chiseled square	743.08
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 K, on E. edge of pipe culvert; painted square	754.20
T. 56 N., Rs. 8 and 9 W., on line between secs. 7 and 12, on U.S. Highway 36, on Marion-Shelby county line, 50 ft. S. and 50 ft. W. from highway at fences N. and S., in concrete post; standard tablet stamped "1535 E R A 1935"	748.806
Hunnewell, 30 ft. S. of highway, 18 ft. W. of main cross street, on head wall of culvert; chiseled square	755.02
T. 56 N., R. 9 W., in N 1/2 sec. 11, 20 ft. N. and 45 ft. W. from junction of rd. N., on head wall of culvert; chiseled square	733.30
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	706.77
Junction of rd. S., 40 ft. S. and 35 ft. W. from, in S. side of 12-in. white-oak tree; nail	690.33
T. 56 N., R. 9 W., near line between secs. 9 and 10, in NW. pier of bridge over North Fork of Salt River; standard tablet (set by water-resources branch of U.S. Geol. Survey)	637.964
T. 56 N., R. 9 W., in NE 1/4 sec. 9, 400 ft. W. of bridge over North Fork of Salt River, 30 ft. N. and 25 ft. W. from highway at fences N. and S., in concrete post; standard tablet stamped "1536 E R A 1935"	649.431
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	679.34
Lakenan, 18 ft. N. and 42 ft. W. from junction of County Route T, on concrete pipe culvert; chiseled square	743.25
Lakenan, 0.8 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 "747 Q"	753.266
Reference mark, 30 ft. S. and 9 ft. W. from highway at fence N.; top of right-of-way post	753.08
Junction of rd. S., 18 ft. S. and 15 ft. W. from, on concrete pipe culvert; chiseled square	753.95
T. 56 N., R. 10 W., in E 1/2 sec. 2, 18 ft. S. and 25 ft. W. from SW. corner of dwelling owned by Ed Bush, 30 ft. N. of highway, top of right-of-way post	757.14
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	760.43

(Continued in Shelbyna quadrangle; see line 3.)

5. FROM POINT ABOUT 2 MILES WEST OF HUNNEWELL SOUTH TO STOUTSVILLE
(by Cornish Beck in 1936)

	<u>Feet</u>
T. 56 N., R. 9 W., on line between secs. 10 and 15, 35 ft. W. of N.-S. rd., 21 ft. N. of E.-W. rd. on Monroe-Shelby county line, in root on SE. side of 26-in. black-oak tree; copper nail and washer	663.57
T. 56 N., R. 9 W., near quarter cor. between secs. 15 and 22, 18 ft. S. and 40 ft. W. from T-rd. N., in root on NW. side of 16-in. white-oak tree; copper nail and washer	711.60
T. 56 N., R. 9 W., 0.1 mi. W. of center sec. 22, 29 ft. N. and 32 ft. 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 T 19 C 1935"	710.404
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	623.04
T. 56 N., R. 9 W., in NW 1/4 sec. 34, at rd. forks, 30 ft. N. and 60 ft. W. from SW. corner of cemetery fence, in root on E. side of 14-in. hickory tree; copper nail and washer	669.84
T. 56 N., R. 9 W., in sec. 34, 15 ft. N. of rd. forks, in corner fence post; nail	642.22
T. 56 N., R. 9 W., S. quarter cor. sec. 34, 17 ft. S. and 5 ft. W. from T-rd. N., 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 20 C 1935"	718.136
T-rd. S., 21 ft. S. and 21 ft. W. from, in root on E. side of 24-in. elm tree; copper nail and washer	733.53
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	694.21
T. 55 N., R. 9 W., S. sixteenth cor. sec. 2, 25 ft. N. and 21 ft. W. from T-rd. N., 8 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 21 C 1935"	720.793
T. 55 N., R. 9 W., in NE 1/4 sec. 11, 15 ft. N. and 140 ft. W. from rd. corner S.-W., in root on N. side of 10-in. walnut tree; copper nail and washer	679.73 732.73
T-rd. W., 15 ft. S. and 15 ft. W. from, in corner post; nail	706.83
Stoutsville, 0.8 mi. NW. of, 85 ft. S. and 105 ft. W. from U.S. Highway 24 at crossroad; top of right-of-way post	604.779
U.S.C. & G.S. standard disk stamped "A 136 1935"	

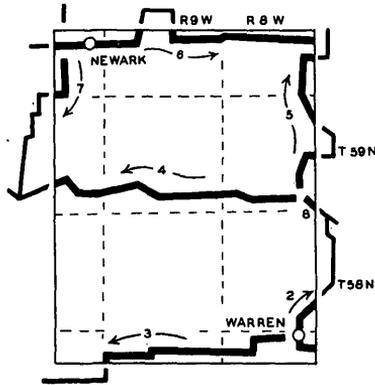
6. FROM SHELBYNA QUADRANGLE NORTHEAST ALONG U.S. HIGHWAY 24 INTO
MONROE CITY QUADRANGLE (by Cornish Beck in 1936)

(Continued from Florida quadrangle; see line 7.)

T. 55 N., R. 10 W., quarter cor. between secs. 34 and 35, 40 ft. N. and 33 ft. W. from junction of rd. W., in E. side of telephone pole; nail	760.45 709.464
U.S.C. & G.S. standard disk stamped "M 133 1935"	
Goss, 2.4 mi. W. of, 0.5 mi. E. of junction of State Highway 15, 48 ft. N. of highway, 23 ft. S. and 111 ft. W. from SW. corner of farmhouse of C. Scobee, 2 ft. inside fence, in concrete post; standard tablet stamped "1415 C W A 1934"	756.722
Goss, 1.2 mi. W. of, 18 ft. S. and 14 ft. W. from crossroad, on head wall of culvert; chiseled square	745.38
Goss, at NW. limits of, 18 ft. S. and 12 ft. E. from junction of rd. S., on head wall of culvert; chiseled square	747.31
Goss, 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 "1416 C W A 1934"	727.917
Goss, about 1.9 mi. NE. of, 45 ft. E. of junction of rd. S., on head wall of culvert; chiseled square	668.86 626.65
Bridge over Otter Creek, on NE. wing wall; chiseled square	
Goss, about 3.1 mi. NE. of, 75 ft. S. and 90 ft. W. from N.-S. crossroad, on N. corner of head wall of culvert; chiseled square	659.70
Crossroad, 25 ft. N. and 11 ft. W. from, on head wall of culvert; chiseled square	693.83
T. 55 N., R. 9 W., in sec. 14, at bridge over Salt River, on SW. bolt of guardrail on NW. wing wall; chiseled cross	603.77
Stoutsville, 1 mi. SW. of, 1,000 ft. NE. of bridge over Salt River, 64 ft. N. of E.-W. crossroad, 2 ft. inside fence, in concrete post; standard tablet stamped "1417 C W A 1934"	664.731 639.067
U.S.C. & G.S. standard disk stamped "Z 135 1935"	
T. 55 N., R. 8 W., near cor. secs. 5, 6, 7, and 8, 69 ft. N. 24° W. of NE. corner of junction of State Highway 107, 42 ft. E. of Highway 107 at curve, 4 ft. inside fence, in concrete post; standard tablet stamped "1418 C W A 1934"	708.216
T. 55 N., R. 8 W., on line between secs. 4 and 5, 25 ft. S. and 15 ft. E. from N.-S. crossroad, on head wall of culvert; chiseled square	741.45
T. 55 N., R. 8 W., on line between secs. 3 and 4, 130 ft. E. of junction of private rd. N., on S. head wall of culvert; chiseled square	719.79
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 "1419 C W A 1934"	696.847
T. 56 N., R. 8 W., 300 ft. S. of S. cor. secs. 35 and 36, 40 ft. S. of junction of rd. N., in fence post; nail	734.84

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.

NEWARK QUADRANGLE
(Latitude 39°45'-40°00'; longitude 91°45'-92°00')
Knox, Lewis, Marion, and Shelby Counties



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

	<u>Feet</u>
Argola, in front of post office, about 6 ft. from SW. corner, on large stones; cross	*704.52
Nelsonville, in front of post office, on NE. corner of step; cross	*716.83
Cherrydell, approximate cor. secs. 19, 24, 25, and 30, T. 59 N., Rs. 8 and 9 W., 8 ft. N. of SW. corner of post office, in stone foundation; standard tablet stamped "695 Q"	695.832
Emden, 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 "743 Q"	*743.821
Sigsbee, 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"	*740.054
T. 59 N., R. 10 W., in NW 1/4 sec. 12, at dwelling of T. G. Moore, in SW. corner of stone foundation; standard tablet stamped "756 Q"	*756.208
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 "749 Q"	*750.068

2. FROM PALMYRA QUADRANGLE, AT WARREN, NORTH 1 MILE INTO PALMYRA QUADRANGLE (by J. H. Vinyard in 1934)

(Continued from Palmyra quadrangle; see line 2.)

Warren, 32 ft. NW. of Main Street at rd. S., 70 ft. NW. of post office, in yard of dwelling of Dr. R. A. Terrell, in concrete post; standard tablet stamped "73 C W A 1934"	726.849
Reference mark, 300 ft. E. of tablet, in root of 24-in. maple tree; copper nail and washer	726.57
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	674.23
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	718.98

(Continued in Palmyra quadrangle; see line 2.)

3. FROM WARREN WEST INTO HUNNEWELL 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 34, Tps. 57 and 58 N., R. 8 W., 350 ft. E. of T-rd. S., N. of rd., in root of 24-in. elm tree; (mark not described)	712.98
Warren, 2 mi. W. of, in sec. 4, T. 57 N., R. 8 W., 160 ft. SE. of SE. corner of church, 30 ft. S. of rd., near entrance to cemetery, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "80 C W A 1934"	729.967
Reference mark, on NW. corner of concrete entrance to church; chiseled square	727.40
T. 58 N., R. 8 W., near SW. cor. sec. 33, E. of store, on SE. corner of well top; chiseled square	685.68
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	740.56
T. 57 N., R. 8 W., W. sixteenth cor. between secs. 5 and 8, about 0.5 mi. W. of County Route K, 25 ft. S. of rd., in concrete post; standard tablet stamped "81 C W A 1934"	739.214

*Accuracy doubtful because of insufficient connections.

	<u>Feet</u>
Reference mark, about 450 ft. E. of tablet, in root of 20-in. elm tree; copper nail and washer	734.63
T. 57 N., R. 8 W., near quarter cor. between secs. 6 and 7, about 750 ft. E. of farmhouse, 10 ft. inside pasture, in root of 27-in. black-oak tree; copper nail and washer	734.48
T. 57 N., R. 9 W., near quarter cor. between secs. 1 and 12, in front of farmhouse of E. H. Couch, in root of 20-in. elm tree; copper nail and washer	748.11
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	745.38
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 "82 C W A 1934"	769.193
Reference mark, E. of tablet, SE. of crossroads, in root of 15-in. tree; copper nail and washer	768.80
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 48-in. oak tree; copper nail and washer	755.13
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	716.38
T. 57 N., R. 9 W., near quarter cor. between secs. 8 and 9, E. of County Route T at rd. W., in concrete post; standard tablet stamped "83 C W A 1934"	753.346
Reference mark, 600 ft. W. of tablet, in root of 18-in. white-oak tree; copper nail and washer	728.51
T. 57 N., R. 9 W., near quarter cor. between secs. 7 and 8, 70 ft. S. of T-rd. W., of rd., in root of 24-in. oak tree; copper nail and washer	744.45
T. 57 N., R. 9 W., in sec. 7, in anchor at W. end of N. truss of bridge over Elack Creek; top of outer lag screw	659.47
T. 57 N., R. 10 W., E. sixteenth cor. sec. 12, 100 ft. NW. of T-rd. N., in root of 15-in. white-oak tree; copper nail and washer	696.45

(Continued in Hunnewell quadrangle; see line 3.)

4. FROM SEC. 36, T. 59 N., R. 8 W., WEST THROUGH CENTER OF QUADRANGLE INTO SHELBYVILLE QUADRANGLE AT SEC. 26, T. 59 N., R. 10 W. (by A. R. Friend in 1936)

T. 59 N., R. 8 W., quarter cor. between secs. 35 and 36, 55 ft. N. and 35 ft. E. from County Route N at crossroad, in concrete post; standard tablet stamped "75 C W A 1934"	649.161
T. 59 N., R. 8 W., center sec. 35, 145 ft. N. and 70 ft. E. from, on SW. corner of concrete porch of Ewing School; chiseled square	706.73
T. 59 N., R. 8 W., W. sixteenth cor. sec. 34, 15 ft. S. and 65 ft. E. from T-rd. E., 735 ft. N. and 65 ft. E. from T-rd. W., in top of 12-in. stump; copper nail and washer	715.68
T. 59 N., R. 8 W., quarter cor. between secs. 32 and 33, 32 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "90 C W A 1934"	719.489
T-rd. N., in base of 8-in. walnut tree; nail	720.51
T. 59 N., R. 8 W., near cor. secs. 29, 30, 31, and 32, 65 ft. N. and 20 ft. W. from T-rd. W., in root on S. side of 12-in. black-oak tree; copper nail and washer	695.27
Junction of private rd. S., 70 ft. E. of, S. of rd., in root on N. side of 16-in. black-oak tree; crossed nails	709.81
T. 59 N., R. 9 W., near quarter cor. between secs. 25 and 36, 25 ft. S. and 10 ft. E. from T-rd. N., in front of dwelling, 3 ft. N. of yard fence, in concrete post; standard tablet stamped "89 C W A 1934"	731.620
T-rd. S., in base of corner fence post; nail	735.77
T. 59 N., R. 9 W., W. sixteenth cor. between secs. 27 and 34, 28 ft. S. and 10 ft. W. from T-rd. N., at edge of timber, in root on N. side of 10-in. hickory tree; copper nail and washer	724.89
T-rd. S., 70 ft. E. of, N. of rd., in root of 5-in. pin-oak tree; crossed nails	711.66
T-rd. N., on SE. wing wall of concrete bridge; chiseled square	628.59
T. 59 N., R. 9 W., 0.1 mi. W. of quarter cor. between secs. 33 and 34, 0.5 mi. S. and 6.5 mi. E. from Bethel, 42 ft. S. and 103 ft. E. from T-rd. S., in concrete post; standard tablet stamped "88 C W A 1934"	726.939
T. 59 N., R. 9 W., in NW 1/4 sec. 33, 15 ft. N. and 66 ft. E. from T-rd. E., in top of stump; copper nail and washer	730.90
T. 59 N., R. 9 W., near cor. secs. 28, 29, 32, and 33, 40 ft. S. and 40 ft. W. from T-rd. W., in root on S. side of 12-in. white-oak tree; copper nail and washer	735.39
T. 59 N., R. 9 W., near quarter cor. between secs. 29 and 32, 18 ft. S. of junction of abandoned rd. N., in root on N. side of 12-in. elm tree; copper nail and washer	736.80
T. 59 N., R. 9 W., cor. secs. 29, 30, 31, and 32, 0.5 mi. S. and 4.5 mi. E. from Bethel, 40 ft. S. and 36 ft. E. from crossroads, in concrete post; standard tablet stamped "87 C W A 1934"	712.794
Junction of private rd. N., in base of corner fence post; nails	750.76
T. 59 N., Rs. 9 and 10 W., approximate cor. secs. 25, 30, 31, and 36, 10 ft. S. and 225 ft. W. from T-rd. S., on S. head wall of concrete culvert; chiseled square	724.87
T-rd. N., on N. head wall of concrete culvert; chiseled square	750.46
T. 59 N., R. 10 W., near W. sixteenth cor. between secs. 25 and 36, 30 ft. S. and 25 ft. W. from T-rd. S., in root on SW. side of 16-in. elm tree; copper nail and washer	758.62

	<u>Feet</u>
T. 59 N., R. 10 W., near E. sixteenth cor. sec. 26, 26 ft. S. and 10 ft. E. from T-rd. S., on E. end of concrete culvert; chiseled square	762.84
T. 59 N., R. 10 W., near center sec. 26, 2 mi. E. of Bethel, 78 ft. S. and 74 ft. E. from SE. corner of Haman School, 58 ft. N. and 65 ft. W. from T-rd. N., in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "86 C W A 1934"	765.148
T. 59 N., R. 10 W., near quarter cor. between secs. 26 and 27, 10 ft. S. and 15 ft. W. from crossroads, on S. head wall of concrete culvert; chiseled square	766.73

(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. corner of bridge over South Fabius River, on top of concrete abutment; chiseled square	587.27
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(For balance in Palmyra quadrangle, see line 6.)

T. 59 N., R. 8 W., in NW 1/4 sec. 24, 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	692.02
County Route N at crossroad, in corner fence post; nail	702.78
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. N. and 37 ft. E. from County Route N at crossroad, in concrete post; standard tablet	684.312
T. 59 N., R. 8 W., near quarter cor. between secs. 11 and 14, 100 ft. N. and 150 ft. E. from County Route D at rd. E., on concrete step of New Providence Presbyterian Church; chiseled square	700.59
T. 59 N., R. 8 W., near cor. secs. 11, 12, 13, and 14, 30 ft. S. and 20 ft. W. from crossroads, in top of 10-in. stump; copper nail and washer	704.24
T. 59 N., R. 8 W., in NW 1/4 sec. 2, 300 ft. N. of dwelling on top of hill, N. of rd., in root on S. side of 18-in. elm tree; copper nail and washer	606.88
T. 60 N., R. 8 W., in SE 1/4 sec. 35, 3.5 mi. S. and 2 mi. W. from Ewing, 400 ft. S. of entrance to farm, 15 ft. W. of rd., in concrete post; standard tablet	685.465
T. 60 N., R. 8 W., cor. secs. 22, 23, 26, and 27, 40 ft. S. and 135 ft. W. from crossroads, in field, in root on N. side of 12-in. water-oak tree; copper nail and washer	687.42

(Continued in Palmyra quadrangle; see line 6.)

6. FROM SHELBYVILLE QUADRANGLE AT SEC. 22, T. 60 N., R. 10 W.,
EAST TO SEC. 14, 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 Strook farmhouse; iron post stamped "Prim Trav Sta No 5 1905"	745.132
Reference mark, 200 ft. W. of post, 50 ft. S. of SW. corner of farmhouse, in root on E. side of 30-in. maple tree; copper nail and washer	747.04
Bridge S-952 over South Fabius River, on N. end of E. abutment; chiseled square	660.64
Newark, 0.8 mi. W. of, along County Route B, 40 ft. N. and 45 ft. W. from junction of rd. N., in root on E. side of 20-in. black-oak tree; copper nail and washer	737.52
Junction of rd. N., 330 ft. N. of, 25 ft. S. and 10 ft. W. from SW. corner of dwelling of Jim Husted, in root on E. side of 16-in. hickory tree; copper nail and washer	737.64
Newark, at SE. corner 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	691.49
Steel bridge over Myers Branch, on N. corner of W. abutment; chiseled square	650.50
Newark, 0.6 mi. E. of, along County Route B, 300 ft. W. of junction of rd. S., 40 ft. N. of highway, in fence line, in root on S. side of 30-in. locust tree; copper nail and washer	676.50
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	668.66
Newark, 1.5 mi. E. of, along County Route B, 30 ft. S. of junction of rd. N., in concrete post; standard tablet stamped "4 B 1936"	664.613
Bridge, on W. end of S. catwalk; chiseled square	618.91
County Route B at crossroad, 800 ft. W. of, 15 ft. N. of highway, on W. end of N. catwalk of bridge; chiseled square	618.96
T. 60 N., R. 9 W., cor. secs. 16, 17, 20, and 21, 100 ft. N. and 150 ft. W. from junction of County Routes B and D, at SW. corner of yard of Brushy School, in root on N. side of 14-in. hickory tree; copper nail and washer	671.85
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	694.45

(For balance in La Belle quadrangle; see line 3.)

	<u>Feet</u>
T. 60 N., R. 9 W., near center sec. 15, 20 ft. N. of entrance to farmyard of Wick Zupann, 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	734.69
T. 60 N., R. 9 W., near quarter cor. between secs. 15 and 22, 350 ft. N. of crossroads, 30 ft. W. of rd., in root on W. side of 16-in. elm tree; copper nail and washer	725.24
T. 60 N., R. 9 W., cor. secs. 14, 15, 22, and 23, 80 ft. E. of T-rd. S., 25 ft. N. of rd., in farmyard, in root on S. side of 20-in. elm tree; copper nail and washer	736.69
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	732.92
T. 60 N., R. 9 W., cor. secs. 13, 14, 23, and 24, 240 ft. W. of T-rd. S., 75 ft. SE. of dwelling of Stanley Turner, 30 ft. N. of rd., in concrete post; standard tablet stamped "5 B 1936"	714.539
T. 60 N., R. 9 W., near center of SE 1/4 sec. 13, 540 ft. NE. of T-rd. E., 20 ft. W. of rd., in farmyard of Frank Gutchfield, in root on S. side of 36-in. white-oak tree; copper nail and washer	713.68
T. 60 N., R. 9 W., E. sixteenth cor. sec. 13, 50 ft. N. of rd. corner S.-E. and woods rd. W., in root on E. side of 20-in. white-oak tree; copper nail and washer	619.55
T. 60 N., R. 8 W., W. quarter cor. sec. 18, 610 ft. E. of T-rd. S., 40 ft. W. of NW. corner of dwelling of A. E. Phillip, 50 ft. S. of rd., in root on N. side of 16-in. hickory tree; copper nail and washer	671.87
Top of hill, 30 ft. S. of rd., about 400 ft. W. of large barn, in root on N. side of 16-in. wild-cherry tree; iron nail and washer	700.75
T. 60 N., R. 8 W., quarter cor. between secs. 17 and 18, 785 ft. W. of crossroads, 75 ft. NE. of NE. corner of farmhouse of Mrs. C. R. Huebner, 30 ft. S. of rd., in root on W. side of 20-in. elm tree; copper nail and washer	700.76
Farmhouse of R. R. Brown, 55 ft. SW. of SW. corner of, 40 ft. N. of rd., in root on S. side of 8-in. maple tree; crossed nails	724.40
T. 60 N., R. 8 W., quarter cor. between secs. 16 and 17, 77 ft. NW. of NW. corner of Oyster Prairie Grange and Community House, 50 ft. S. and 195 ft. W. from crossroads, 167 ft. SW. of schoolhouse, in concrete post; standard tablet	720.155
Dwelling of Fred Schrader, 45 ft. E. of private drive, 60 ft. N. of rd., in root on S. side of 18-in. elm tree; nail and washer	720.49
Farmhouse of Milton Smith, 100 ft. S. of SE. corner of, 35 ft. N. of rd., in root on S. side of 26-in. black-locust tree; nail and washer	715.54
T. 60 N., R. 8 W., quarter cor. between secs. 15 and 16, 140 ft. W. of crossroads, in root on N. side of 30-in. maple tree; copper nail and washer	706.12
Small wooden bridge, 90 ft. S. of, in root on N. side of 24-in. elm tree; nail and washer	655.05
T. 60 N., R. 8 W., quarter cor. between secs. 14 and 15, 450 ft. N. of T-rd. E., 65 ft. N. of T-rd. W., 90 ft. E. of SE. corner of farmhouse of E. W. Doshier, in root on W. side of 12-in. cedar tree; copper nail and washer	704.09
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	686.92

(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 F. Y. Brown in 1936)

Top of hill, at N. edge of field, in root on W. side of 10-in. elm tree; crossed nails	738.62
T. 60 N., R. 10 W., 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	666.75
T. 60 N., R. 10 W., quarter cor. between secs. 26 and 27, 440 ft. N. of T-rd. W., 15 ft. E. of rd., in fence line, in root on W. side of 14-in. cedar tree; copper nail and washer	725.62
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. box-elder tree; copper nail and washer	745.52 708.0
Bridge, at SE. corner of; surface of floor	
Rd. corner from N.-W., 75 ft. W. of, 15 ft. N. of rd., in root on W. side of 10-in. elm tree; crossed nails	753.28
Tps. 59 and 60 N., R. 10 W., E. sixteenth cor. between secs. 3 and 34, 4.8 mi. N. and 1.2 mi. E. from Bethel, 27 ft. S. and 31 ft. W. from T-rd. S. on Knox-Shelby county line, in corner of field, in concrete post; standard tablet stamped "T 2 1935"	726.300
T. 59 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	755.86 723.22
Bridge, on E. corner of S. head wall; chiseled square	

(Continued in Shelbyville quadrangle; see line 5.)

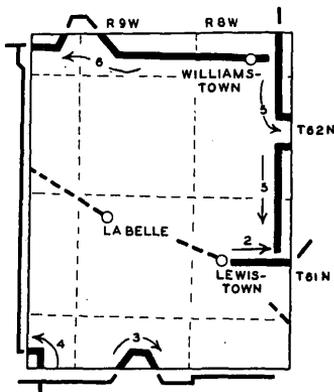
8. FROM SEC. 2, T. 58 N., R. 8 W., EAST ALONG COUNTY ROUTE N INTO PALMYRA QUADRANGLE (by W. V. Kennedy in 1937)

County Route N at rd. W., on S. head wall of concrete culvert; chiseled square	681.70
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(Continued in Palmyra quadrangle; see line 7.)

La BELLE QUADRANGLE
(Latitude 40°00'-40°15'; longitude 91°45'-92°00')

Knox and Lewis Counties



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

	Feet
T. 60 N., R. 8 W., in SE 1/4 NE 1/4 sec. 10, on property of William Jusfram; iron post stamped "681 A"	*682.005
T. 60 N., R. 9 W., on line between secs. 8 and 9, on property of W. E. 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.&G.S. recovery gives post office and 724 A)	724.690
La Belle, in NW. corner of stone foundation of bank; aluminum tablet stamped "738 A"	*736.013
T. 62 N., R. 9 W., in NE 1/4 sec. 20, in SE. corner of yard of H. P. Gregory; iron post stamped "674 A"	*673.817
Williamstown, in W. side of stone foundation of Southern Methodist Church; standard tablet stamped "721 A"	721.080
T. 63 N., R. 9 W., quarter cor. between secs. 28 and 29, 21 ft. N. and 23 ft. W. from crossroads; 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, 30 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	719.67
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 N.-S. crossroad, 48 ft. S. of highway, in concrete post; standard tablet stamped "1428 C W A 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.)

Junction of rd. E., 50 ft. S. of, 30 ft. E. of NE. corner of farmhouse of F. W. Mitchell, in root on W. side of 26-in. maple tree; crossed nails	732.61
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.

4. FROM SEC. 14, 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 1936)	
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	Feet 750.14
T. 60 N., R. 10 W., cor. secs. 10, 11, 14, and 15, 300 ft. S. and 55 ft. E. from crossroads, 30 ft. S. and 3 ft. W. from Sw. corner of Fruithill School, in root on W. side of 14-in. hickory tree; copper nail and washer	732.35
(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	656.38
Williamstown, 1.5 mi. E. of, cor. secs. 22, 23, 26, and 27, T. 63 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"	705.498
Reference mark, 0.2 mi. S. of tablet, on W. head wall of concrete culvert, 4 ft. S. of N. end; chiseled square	692.11
T. 63 N., R. 8 W., cor. secs. 26, 27, 34, and 35, 15 ft. S. and 20 ft. W. from T-rd. E., in root on N. side of 26-in. walnut tree; copper nail and washer	708.09
T. 63 N., R. 8 W., in SW 1/4 sec. 35, 800 ft. N. of T-rd. E., 25 ft. W. of rd., in fork of twin 16-in. black-locust tree; copper nail and washer	695.89
T. 62 N., R. 8 W., near N. sixteenth cor. between secs. 2 and 3, about 450 ft. S. of County Route A at rd. NE., about 700 ft. N. of rd. NW., 15 ft. E. of highway, on center of E. head wall of concrete culvert; chiseled square	681.69
County Route A, 45 ft. E. of, in farmyard of E. C. Tompkins, in root on W. side of 16-in. maple tree; crossed nails	696.16
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	639.18
Rd. corner from S.-E., 40 ft. N. of, 60 ft. S. of old Price farmhouse, in root on S. side of 30-in. maple tree; crossed nails	610.37
(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	581.92
North Fabius River, 20 ft. N. of, 15 ft. E. of rd., in S. side of willow tree; nail	581.92
T. 62 N., R. 8 W., in NE 1/4 sec. 22, 15 ft. S. and 45 ft. W. from T-rd. at S. edge of North Fabius River valley, in fence line, in root on N. side of 26-in. white-oak tree; copper nail and washer	608.19
T. 62 N., R. 8 W., in sec. 22, 110 ft. S. of rd. corner from S.-E., 15 ft. W. of rd., in root on E. side of 24-in. elm tree; crossed nails	651.38
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 18-in. hickory tree; copper nail and washer	626.71
Top of hill, 55 ft. W. of rd., 115 ft. S. of old dwelling, in root on E. side of 36-in. elm tree; crossed nails	680.19
T. 62 N., R. 8 W., in SE 1/4 sec. 27, 50 ft. S. and 15 ft. E. from SE. corner of Reynolds School, 60 ft. E. of rd., in root on S. side of 10-in. post-oak tree; copper nail and washer	693.94
T. 62 N., R. 8 W., in NE 1/4 sec. 34, 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	705.11
T. 62 N., R. 8 W., S. sixteenth cor. sec. 35, 260 ft. N. and 15 ft. W. from T-rd. E., 2 ft. N. and 10 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 118 C 1936"	697.416
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	606.37
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	625.45
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 mi. E. of, near quarter cor. between secs. 22 and 27, T. 63 N., R. 8 W., 8 ft. S. of rd., on corner of E. head wall of concrete culvert; chiseled square	671.60
Farmhouse, 55 ft. NW. of, in root on N. side of 16-in. elm tree; crossed nails	723.14
Williamstown, about 1 mi. W. of, near W. sixteenth cor. between secs. 20 and 29, T. 63 N., R. 8 W., about 800 ft. E. of crossroads, 15 ft. N. of rd., on NW. corner of N. head wall of small bridge; chiseled square	650.07
Williamstown, about 1.2 mi. W. of, cor. secs. 19, 20, 29, and 30, T. 63 N., R. 8 W., 535 ft. W. of T-rd. S., 15 ft. S. of rd., in S. side of 22-in. elm tree; copper nail and washer	697.65

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	Feet 628.61
T. 63 N., R. 9 W., in NW 1/4 sec. 25, on top of pier at NE. corner of bridge over North Fabius River, on top of bolt head; chiseled square	602.90
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"	604.519
T. 63 N., R. 9 W., in S 1/2 sec. 26, 65 ft. S. and 25 ft. W. from rd. corner S.-E., in SE. corner of farmyard of W. H. Miller, in root on E. side of 10-in. cedar tree; crossed nails	704.63
T. 63 N., R. 9 W., near W. sixteenth cor. between secs. 26 and 35, 15 ft. S. and 12 ft. E. from T-rd. N., in root on N. side of 8-in. walnut tree; copper nail and washer	725.31
T. 63 N., R. 9 W., in S 1/2 sec. 27, at rd. corner S.-W., 700 ft. N. of T-rd. E., 700 ft. E. of rd. corner N.-E., 200 ft. E. of T-rd. N., at corner of farmyard, in root on S. side of 22-in. mulberry tree; copper nail and washer	725.55
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	688.01
T. 63 N., R. 9 W., in sec. 28, 25 ft. N. and 45 ft. W. from T-rd. S., in SE. corner of barnyard, in root on N. side of 14-in. elm tree; copper nail and washer	718.48
Barn, at SW. corner of, 52 ft. N. of rd., on top of NE. corner of concrete cistern top; painted square	736.98
T. 63 N., R. 9 W., near quarter cor. between secs. 29 and 30, 210 ft. E. of crossroads, 20 ft. S. of rd., in root on S. side of 18-in. elm tree; copper nail and washer	713.21 683.62
Concrete culvert, on S. end of W. head wall; chiseled square	

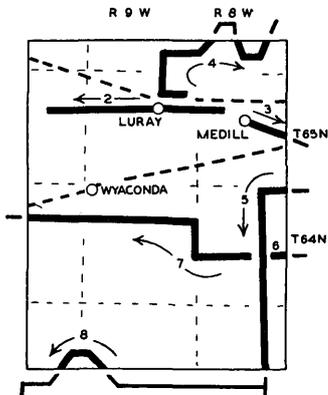
(For balance in Wyaconda quadrangle, see line 8.)

T. 63 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	638.89
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(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°45'-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. 23, T. 63 N., R. 10 W., in N. foundation of dwelling of H. S. Coleman; standard tablet stamped "745 A"	745.801
Neepier, in SE. corner of churchyard; iron post stamped "730 A"	719.394
Fairmont, in SW 1/4 sec. 21, T. 64 N., R. 9 W., in NE. corner of public square; iron post stamped "780 A"	780.307
Medill, in front of R.R. sta.; top of rail	703.7
Medill, 10 ft. S. and 468 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 "703 A"	704.389

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 "713 A"	<u>Feet</u> *714.156
T. 66 N., R. 9 W., quarter cor. between secs. 28 and 29, on property of J. S. Snyder; iron post stamped "733 A"	*734.431
Granger, in SW. corner of foundation of Granger Exchange Bank; standard tablet stamped "761 A"	761.897
2. FROM SEC. 8, T. 65 N., R. 8 W., WEST ALONG STATE HIGHWAY 4 TO SEC. 11, T. 65 N., R. 10 W. (by B. A. Barnes in 1936)	
T. 65 N., R. 8 W., in SW 1/4 sec. 8, 45 ft. S. and 45 ft. E. from cross-road, in concrete post; standard tablet stamped "1515 E R A 1935"	718.346
T. 65 N., R. 9 W., quarter cor. between secs. 11 and 14, 46 ft. S. and 21 ft. E. from junction of rd. N., in concrete post; standard tablet stamped "1514 E R A 1935"	738.083
T. 65 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"	729.315
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"	723.551
3. FROM MEDILL EAST ALONG STATE HIGHWAY 4 INTO KAHOKA QUADRANGLE (by E. A. Barnes in 1936)	
U.S.C. & G.S. standard disk stamped "U 85 1935"	721.554
U.S.C. & G.S. standard disk stamped "G 85 1935"	708.847
T. 65 N., R. 8 W., center sec. 22, 160 ft. N. and 140 ft. W. from rd. corner N.-W., 130 ft. SW. of highway at curve, in concrete post; standard tablet stamped "1516 E R A 1935"	696.237
Junction of rd. S.; surface of highway	703.1
(Continued in Kahoka quadrangle; see line 2.)	
4. FROM POINT ABOUT 2 MILES EAST OF LURAY WEST TO LURAY, THENCE NORTH, THENCE EAST INTO KEOSAUQUA QUADRANGLE AT SEC. 35, T. 66 N., R. 8 W. (by F. Y. Brown in 1936)	
U.S.C. & G.S. standard disk stamped "V 85 1935"	718.017
Gate to airplane landing field, 10 ft. N. of, 35 ft. S. of rd., in center of W. head wall of concrete culvert; copper washer	729.82
U.S.C. & G.S. standard disk stamped "W 85 1935"	736.833
Luray, 0.5 mi. N. of, on line between secs. 3 and 10, T. 65 N., R. 9 W., 700 ft. N. of T-rd. E., 25 ft. E. of rd., on W. bank of small pond, in root on N. side of 14-in. maple tree; copper nail and washer	736.63
Luray, 1.4 mi. NE. of, near center sec. 3, T. 65 N., R. 9 W., 28 ft. S. and 60 ft. W. from rd. fork W., 5 ft. E. of hedge fence, in concrete post; standard tablet stamped "T T 112 C 1936"	744.532
Tps. 65 and 66 N., R. 9 W., E. sixteenth cor. between secs. 3 and 34, 20 ft. S. and 410 ft. E. from T-rd. N., in fence line, in root on S. side of 18-in. elm tree; copper nail and washer	730.64
Tps. 65 and 66 N., R. 9 W., near W. sixteenth cor. between secs. 2 and 35, 600 ft. N. and 35 ft. E. from T-rd. N., 50 ft. W. of farmhouse, in root on S. side of 12-in. maple tree; copper nail and washer	730.84
T. 66 N., R. 9 W., in W 1/2 sec. 35, 15 ft. N. and 30 ft. E. from T-rd. E., in fence line, in root on S. side of 10-in. hedge tree; copper nail and washer	733.26
Top of ridge, 35 ft. N. of rd., in root on S. side of 26-in. white-oak tree; crossed nails	719.96
Bridge, 15 ft. E. of rd., on center of E. wing wall of N. abutment; chiseled square	640.61
T. 66 N., R. 9 W., in SW 1/4 sec. 25, 0.1 mi. N. of bridge over creek, 12 ft. N. and 30 ft. W. from rd. corner E.-S., 4 ft. S. of fence, in concrete post; standard tablet stamped "T T 111 C 1936"	629.413
T. 66 N., R. 9 W., on line between secs. 25 and 36, 15 ft. S. and 125 ft. W. from T-rd. N., on S. wing wall of E. abutment of small bridge; chiseled square	640.01
Top of ridge, 25 ft. N. of rd., 300 ft. E. of double curve, in fence line, in telephone pole at surface of ground; spike	715.20
T. 66 N., R. 8 W., W. (? E.) sixteenth cor. between secs. 30 and 31, 35 ft. N. and 30 ft. W. from T-rd. W., in root on W. side of 16-in. white-oak tree; copper nail and washer	645.76
(For balance in Keosauqua quadrangle, see line 2.)	
T. 66 N., R. 8 W., cor. secs. 27, 28, 33, and 34, 100 ft. E. of T-rd. S., in root on N. side of 20-in. white-oak tree; copper nail and washer	710.52
Top of ridge, 25 ft. S. of rd., at head of draw NE., in root on S. side of 12-in. hickory tree; crossed nails	699.73
Medill, 3.5 mi. N. of, in NW 1/4 sec. 35, T. 66 N., R. 8 W., at top of hill, 38 ft. W. of rd. forks, 2 ft. W. of fence, in concrete post; standard tablet stamped "T T 101 C 1936"	666.791
(Continued in Keosauqua quadrangle; see line 2.)	

*Accuracy doubtful because of insufficient connections.

5. FROM KAHOKA QUADRANGLE AT SEC. 2, T. 64 N., R. 8 W., SOUTH
INTO LA BELLE QUADRANGLE AT SEC. 14, T. 63 N., R. 8 W.
(by F. Y. Brown in 1936)
(Continued from Kahoka quadrangle; see line 8.)

	<u>Feet</u>
Tps. 64 and 65 N., R. 8 W., near W. sixteenth cor. between secs. 2 and 35, 15 ft. S. and 25 ft. E. from T-rd. S., on center of S. head wall of concrete culvert; chiseled square	691.73
T. 64 N., R. 8 W., in SW 1/4 sec. 2, 380 ft. S. of rd. corner S.-E., 15 ft. E. of rd., on E. wing wall of N. abutment of concrete bridge; chiseled square	663.19
T. 64 N., R. 8 W., W. sixteenth cor. between secs. 2 and 11, 277 ft. N. and 25 ft. W. from crossroads, 2 ft. N. and 5 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 114 C 1936"	687.436
T. 64 N., R. 8 W., in W 1/2 sec. 11, 240 ft. SW. of Union School, 30 ft. E. of rd., on NW. corner of concrete well top; chiseled square	674.69
T. 64 N., R. 8 W., W. sixteenth cor. between secs. 11 and 14, 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	670.72
T. 64 N., R. 8 W., on line between secs. 10 and 15, 15 ft. S. of rd. corner E.-S., on concrete block; chiseled square	602.05
T. 64 N., R. 8 W., in SW 1/4 sec. 15, on top of S. pier at NW. end of bridge over Wyaconda River; top of joint bolt	598.64
T. 64 N., R. 8 W., in SE 1/4 sec. 15, 75 ft. E. of T-rd. W., in root on S. side of 22-in. hickory tree; copper nail and washer	594.70
T. 64 N., R. 8 W., in SW 1/4 sec. 15, 650 ft. S. of T-rd. E., 40 ft. SE. of small iron bridge, 25 ft. E. of rd., in root on W. side of 30-in. maple tree; copper nail and washer	609.72
Farmhouse of Fred Miller, 30 ft. E. of rd., in fence line, in root on W. side of 30-in. white-oak tree; crossed nails	713.38
T. 64 N., R. 8 W., W. sixteenth cor. between secs. 22 and 27, 30 ft. S. and 200 ft. W. from crossroads, 75 ft. N. of NE. corner of farmhouse of Joseph M. Wells, in root on N. side of 8-in. cedar tree; copper nail and washer	711.24
T. 64 N., R. 8 W., W. sixteenth cor. between secs. 22 and 27, 105 ft. S. and 200 ft. W. from crossroads, on NE. corner of foundation of farmhouse of Joseph M. Wells; painted square	712.27
Farmhouse, 260 ft. NW. of, 15 ft. W. of rd., in hedge fence, in root on W. side of 10-in. hedge tree; crossed nails	702.69
T. 64 N., R. 8 W., near center sec. 34, 700 ft. S. of crossroads, 310 ft. NE. of farmhouse, 30 ft. E. of rd., in root on W. side of twin 14-in. oak tree; copper nail and washer	689.63
Steel bridge over small creek, on top of bolt head at top of N. pier at W. end; chiseled square	611.89
T. 63 N., R. 8 W., in N 1/2 sec. 3, 400 ft. N. and 15 ft. W. from T-rd. N., in root on E. side of 20-in. black-oak tree; copper nail and washer	618.32
T. 63 N., R. 8 W., near N. sixteenth cor. between secs. 2 and 3, 185 ft. N. and 40 ft. E. from rd. corner S.-W. produced and dim rd. N., at corner of hedge fence, in root on N. side of 10-in. hedge tree; copper nail and washer	680.71
T. 63 N., R. 8 W., cor. secs. 2, 3, 10, and 11, 78 ft. N. and 23 ft. W. from T-rd. W., in concrete post; standard tablet stamped "T T 115 C 1936"	688.166
T. 63 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 12-in. black-oak tree; copper nail and washer	695.91
T. 63 N., R. 8 W., cor. secs. 10, 11, 14, and 15, 25 ft. N. and 30 ft. E. from T-rd. E., in root on W. side of 14-in. hedge tree; copper nail and washer	707.59
T. 63 N., R. 8 W., quarter cor. between secs. 14 and 15, 40 ft. E. of T-rd. W., in root on W. side of 16-in. hedge tree; copper nail and washer	712.33
T. 63 N., R. 8 W., cor. secs. 14, 15, 22, and 23, 540 ft. N. and 40 ft. E. from T-rd. E., 100 ft. SW. of large barn, on base on W. side of concrete watering tank; chiseled square	708.54

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

6. FROM SEC. 22, T. 64 N., R. 8 W., EAST INTO KAHOKA QUADRANGLE
AT SEC. 23, T. 64 N., R. 8 W. (by F. Y. Brown in 1937)

T. 64 N., R. 8 W., in N 1/2 sec. 27, 40 ft. N. and 20 ft. E. from T-rd. S., in root on S. side of 14-in. hickory tree; copper nail and washer	693.24
T. 64 N., R. 8 W., near N. sixteenth cor. between secs. 26 and 27, 30 ft. S. and 10 ft. E. from T-rd. N., in root on W. side of 18-in. white-oak tree; copper nail and washer	699.50
T. 64 N., R. 8 W., in N 1/2 sec. 26, 160 ft. N. and 310 ft. E. from T-rd. S., 210 ft. E. of farmhouse, 55 ft. S. of rd., in root on S. side of 14-in. white-oak tree; copper nail and washer	687.67

(Continued in Kahoka quadrangle; see line 7.)

7. FROM SEC. 22, T. 64 N., R. 8 W., WEST INTO MEMPHIS QUADRANGLE AT SEC. 14, T. 64 N., R. 10 W. (by F. Y. Brown in 1937)

	<u>Feet</u>
T. 64 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	701.40
Kinkade triangulation sta.; U.S.C. & G.S. standard disk stamped "Kinkade 1934"	726.017
U.S.C. & G.S. standard reference disk stamped "Kinkade No 1 1934"	728.146
U.S.C. & G.S. standard reference disk stamped "Kinkade No 2 1934"	727.276
U.S.C. & G.S. standard reference disk stamped "Kinkade Azi 1934"	719.226
T. 64 N., R. 8 W., near quarter cor. between secs. 20 and 21, 20 ft. N. and 250 ft. E. from crossroads, in farmyard, in root on N. side of 14-in. maple tree; copper nail and washer	724.78
T. 64 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 14-in. post-oak tree; copper nail and washer	734.58
T. 64 N., R. 8 W., in NE 1/4 sec. 19, 155 ft. N. and 25 ft. W. from T-rd. N., in root on S. side of 30-in. mulberry tree; copper nail and washer	735.03
T. 64 N., R. 8 W., in sec. 19, 15 ft. N. of rd., in SE. corner of farmyard, in root on S. side of 14-in. elm tree; crossed nails	736.19
T. 64 N., Rs. 8 and 9 W., near quarter cor. between secs. 19 and 24, 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	734.09
T. 64 N., R. 9 W., near center of NW 1/4 sec. 24, 100 ft. N. of rd., in farmyard, on concrete cistern top; chiseled square	729.94
T. 64 N., R. 9 W., cor. secs. 13, 14, 23, and 24, 21 ft. N. and 42 ft. W. from T-rd. W., 3 ft. N. and 25 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 107 C 1936"	674.973
T. 64 N., R. 9 W., in W 1/2 sec. 13, 40 ft. S. and 15 ft. W. from T-rd. E., on center of W. head wall of concrete culvert; chiseled square	718.61
T. 64 N., R. 9 W., near cor. secs. 11, 12, 13, and 14, 25 ft. E. of T-rd. W., 10 ft. E. of N.-S. fence, in root on N. side of 8-in. hedge tree; copper nail and washer	737.29
Grain shed, at SE. end of, 15 ft. N. of rd., in root on S. side of 10-in. elm tree; crossed nails	725.73
T. 64 N., R. 9 W., E. sixteenth cor. between secs. 10 and 15, 15 ft. S. and 290 ft. E. from crossroads, in root on W. side of 16-in. hedge tree; copper nail and washer	739.78
T. 64 N., R. 9 W., cor. secs. 9, 10, 15, and 16, 31 ft. S. and 2 ft. W. from rd. at fences N. and S., 9 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 106 C 1936"	730.703
T. 64 N., R. 9 W., quarter cor. between secs. 9 and 16, 10 ft. S. and 15 ft. E. from crossroads, on center of S. head wall of concrete culvert; chiseled square	703.23
Top of hill, 25 ft. S. of rd., in farmyard, in root on N. side of 20-in. maple tree; crossed nails	748.35
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	731.67
T. 64 N., R. 9 W., cor. secs. 17, 18, 19, and 20, 15 ft. S. and 34 ft. E. 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"	758.391
T. 64 N., Rs. 9 and 10 W., S. sixteenth cor. between secs. 13 and 18, 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	753.16
T. 64 N., Rs. 9 and 10 W., cor. secs. 7, 12, 13, and 18, 30 ft. S. and 15 ft. W. from T-rd. W., on center of W. wing wall of concrete culvert; chiseled square	724.88
T. 64 N., R. 10 W., cor. secs. 11, 12, 13, and 14, 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"	750.707
Rd., 10 ft. S. of, on head wall of large concrete culvert; chiseled square	712.09
T. 64 N., R. 10 W., in NW 1/4 sec. 14, 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	733.79
Farmhouse, 210 ft. S. of, 15 ft. E. of rd., in root on W. side of 16-in. post-oak tree; crossed nails	733.73

(Continued in Memphis quadrangle; see line 7.)

8. FROM La 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. 63 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	644.57
T. 63 N., R. 9 W., quarter cor. between secs. 18 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 124 C 1936"	672.468
T. 63 N., Rs. 9 and 10 W., cor. secs. 13, 18, 19, and 24, at center of T-rd. S. at W. corner of Clark and Lewis Counties, in root on N. side of 36-in. elm tree; copper nail and washer	663.82
T. 63 N., R. 10 W., E. sixteenth cor. sec. 23, 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	736.17

	<u>Feet</u>
T. 67 N., R. 9 W., near center sec. 24, 12 ft. S. and 60 ft. E. from T-rd. S., on center of S. head wall of concrete culvert; chiseled square	695.20
T. 67 N., R. 9 W., near quarter cor. between secs. 23 and 24, 35 ft. E. of Upp School, 160 ft. S. and 60 ft. E. from T-rd. N., on NE. corner of concrete well top; chiseled square	729.97
T. 67 N., R. 9 W., in W 1/2 sec. 23, 40 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	729.62
T. 67 N., R. 9 W., in NE 1/4 sec. 22, 25 ft. N. and 60 ft. W. from T-rd. S., in fence line, in root on S. side of 16-in. box-elder tree; copper nail and washer	730.28
T. 67 N., R. 9 W., E. sixteenth cor. between secs. 22 and 27, 22 ft. S. of T-rd. N., in concrete post; standard tablet stamped "T T 88 C 1936"	646.983
Bridge, at NE. corner of, in S. pier; top of bolt head	625.6
T. 67 N., R. 9 W., on line between secs. 21 and 28, opposite farmhouse of R. M. Kennel, 60 ft. E. of rd. corner from S.-W., in root on N. side of 14-in. hickory tree; copper nail and washer	715.09
Dwelling on Low Todd farm, 40 ft. SE. of, in root on W. side of 30-in. elm tree; crossed nails	728.57
T. 67 N., R. 9 W., in SE 1/4 sec. 20, near top of hill, about 700 ft. W. of dwelling, 265 ft. N. and 55 ft. W. from rd. corner N.-E., in root on N. side of 26-in. white-oak tree; copper nail and washer	726.06
T. 67 N., R. 9 W., in NW. cor. sec. 19, 20 ft. N. and 30 ft. E. from T-rd. S., in root on W. side of 14-in. white-oak tree; copper nail and washer	735.02
T-rd. N. on Iowa-Mo. State line, 20 ft. N. and 50 ft. E. from, in root on S. side of 12-in. elm tree; crossed nails	674.58
T. 67 N., Rs. 9 and 10 W., N. cor. secs. 19 and 24, 36 ft. S. and 22 ft. W. from rd. corner E.-S., in concrete post; standard tablet stamped "T T 27 G 1935"	735.401
Rd. corner from N.-W. on Iowa-Mo. State line, 30 ft. S. and 40 ft. E. from, in root on N. side of 14-in. elm tree; crossed nails	668.44
T. 67 N., R. 10 W., in NE 1/4 sec. 24, 30 ft. N. and 40 ft. W. from T-rd. S. on Iowa-Mo. State line, in root on W. side of 24-in. mulberry tree; copper nail and washer	743.44
T. 67 N., R. 10 W., in NE. cor. sec. 23, 240 ft. S. and 20 ft. E. from T-rd. N. on Iowa-Mo. State line, in root on N. side of 30-in. elm tree; copper nail and washer	714.22
T. 67 N., R. 10 W., about 0.1 mi. S. of W. sixteenth cor. between secs. 11 and 14, 0.2 mi. S. of small iron bridge, 300 ft. S. of creek junction, on W. bank of E. creek, 130 ft. W. of well platform, in root on S. side of 26-in. elm tree; copper nail and washer	690.73

(Continued in Cantril quadrangle; see line 2.)

2. FROM WYACONDA QUADRANGLE AT SEC. 35, T. 66 N., R. 8 W., EAST INTO DONNELLSON QUADRANGLE AT SEC. 22, T. 66 N., R. 8 W. (by F. Y. Brown in 1936)

(Continued from Wyaconda quadrangle; see line 4.)

T. 66 N., R. 8 W., in NE 1/4 sec. 30, 26 ft. N. and 15 ft. W. from T-rd. S., 15 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 110 C 1936"	611.034
Dwelling on Kaylor farm, about 200 ft. SW. of, 20 ft. W. of rd., in fence line, in root on E. side of 14-in. maple tree; crossed nails	710.38
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 well platform; chiseled square	718.17
T. 66 N., R. 8 W., cor. secs. 20, 21, 28; and 29, 0.1 mi. E. of school-house, 200 ft. W. of rd. corner from S.-W., 25 ft. N. of rd., in S. side of 20-in. locust tree; copper nail and washer	721.30

(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	601.15
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	599.50

(Continued in Donnellson quadrangle; see line 2.)

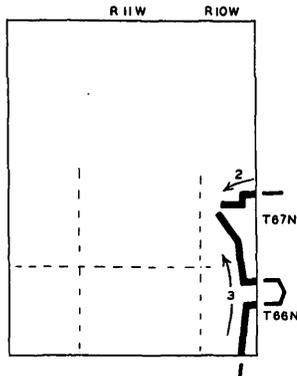
3. FROM CANTRIL QUADRANGLE AT SEC. 15, T. 66 N., R. 10 W., INTO CANTRIL QUADRANGLE (by W. V. Kennedy in 1937)

(Continued from Cantril quadrangle; see line 3.)

T. 66 N., R. 10 W., in W 1/2 sec. 15, 21 ft. S. and 14 ft. E. from T-rd. N., 29 ft. E. of NE. corner of farmhouse of Roy Smith, 4 ft. N. of fence, in concrete post; standard tablet stamped "T T 24 G 1935"	768.633
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(Continued in Cantril quadrangle; see line 3.)

CANTRIL QUADRANGLE*
 (Latitude 40°30'-40°45'; longitude 92°00'-92°15')
 Scotland County



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, in fence corner on property of Joseph Miller; iron post stamped "745 A" | Feet
**746.450 |
|--|-------------------|
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., in NE 1/4 sec. 21, 25 ft. S. and 30 ft. E. from T-rd. N., about 400 ft. E. of small farmhouse, 5 ft. N. of fence, in concrete post; standard tablet stamped "T T 26 G 1935" | 757.770 |
| T. 67 N., R. 10 W., near N. quarter cor. sec. 21, 22 ft. S. and 27 ft. W. from T-rd. S., on concrete base of corner fence post; chiseled square large barn, about 500 ft. SE. of, 15 ft. S. of rd., on center of S. end of concrete culvert; chiseled square | 754.37 |
| T. 67 N., R. 10 W., in NW 1/4 sec. 20, 60 ft. NE. of NE. corner of South Upton School, 30 ft. S. of rd., in root on N. side of large, twin elm tree; copper nail and washer | 735.16 |
| T. 67 N., R. 10 W., near E. sixteenth cor. on N. line sec. 19, 0.5 mi. W. of South Upton School, 21 ft. S. and 148 ft. W. from rd. at hedge fence S., 2 ft. S. of fence, in concrete post; standard tablet stamped "T T 22 G 1935" | 706.10 |
| | 753.883 |
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.
 (by W. V. Kennedy in 1937)
 (Continued from Memphis quadrangle; see line 9.)
- | | |
|---|--------|
| T. 66 N., R. 10 W., cor. secs. 21, 22, 27, and 28, 145 ft. S. and 18 ft. E. from T-rd. E. and private rd. W., in root on SW. side of 24-in. elm tree; copper nail and washer | 672.26 |
| 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 | 670.38 |
| T. 66 N., R. 10 W., S. sixteenth cor. between secs. 15 and 16, 15 ft. S. and 145 ft. E. from T-rd. W., in farmyard of John W. Miller, on concrete foundation; chiseled square | 771.03 |
- (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 | 750.35 |
| 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 | 699.28 |
| 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 | 715.51 |
| 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 | 740.43 |

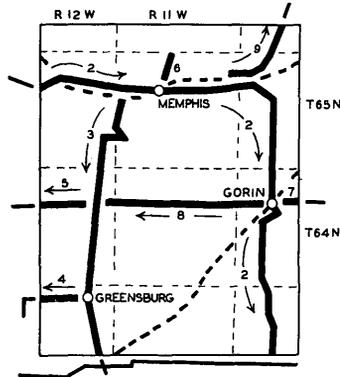
*The greater part of this quadrangle lies in Iowa.

**Accuracy doubtful because of insufficient connections.

T. 67 N., R. 10 W., S. quarter cor. sec. 33, 24 ft. N. and 57 ft. E. from T-rd. H., 1 ft. S. of fence, in concrete post; standard tablet stamped "T 25 G 1935"	Feet 753.599
T. 67 N., R. 10 W., 750 ft. N. of quarter cor. between secs. 28 and 33, on SW. pier of steel bridge over Little Fox Creek; painted bolt head	669.45
T. 67 N., R. 10 W., 425 ft. N. of quarter cor. between secs. 21 and 28, 21 ft. S. and 25 ft. W. from T-rd. W., at dim crossroads, in root on E. side of 12-in. elm tree; copper nail and washer	750.90

MEMPHIS QUADRANGLE
(Latitude 40°15'-40°30'; longitude 92°00'-92°15')

Knox and Scotland Counties



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 Boyer; iron post stamped "652 A"	652.943
Sand Hill, center sec. 33, T. 64 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, in front of Chicago, Burlington & Quincy R.R. sta.; top of rail	755.0
Memphis, in N. part of, in schoolyard, in top of meridian post; standard tablet stamped "786 A"	*786.469
T. 65 N., R. 12 W., in NW 1/4 sec. 25, in NW. corner of yard of Miller School; iron post stamped "796 A"	*795.916

2. FROM DOWNING QUADRANGLE EAST ALONG STATE HIGHWAY 4 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, 3.8 mi. W. of, 20 ft. S. and 20 ft. W. from N.-S. crossroad, on W. end of N. concrete head wall of culvert; chiseled square	804.47
Memphis, 2.7 mi. W. of, 40 ft. N. and 25 ft. W. from junction of rd. S., on top of concrete base of corner fence post; chiseled square	810.81
Memphis, 1 mi. W. of, 55 ft. N. and 10 ft. W. from junction of State Highway 15, in concrete post; standard tablet stamped "1505 C W A 1935"	694.402
Reference mark, 440 ft. S. 70° W. of tablet, on W. end of S. head wall of culvert; chiseled square	697.48
Memphis, at W. limits of, 27 ft. N. and 15 ft. W. from junction of rd. NE., on S. end of W. concrete head wall of culvert; chiseled square	694.35
U.S.C. & G.S. standard disk stamped "Memphis 1934"	800.661
Memphis, at E. limits of, 22 ft. S. and 15 ft. E. from highway at street W., on W. end of S. concrete head wall of culvert; chiseled square	730.52
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"	794.426
Memphis, 1.5 mi. E. of, 27 ft. S. and 17 ft. W. from N.-S. crossroad, in root on E. side of 12-in. maple tree; copper nail and washer	782.91
Memphis, 2 mi. E. of, 35 ft. N. and 12 ft. E. from junction of rd. S., in root on S. side of 24-in. elm tree; copper nail and washer	784.32
Memphis, about 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	785.85
T. 65 N., R. 11 W., approximate center sec. 11, 40 ft. N. of highway on curve at fence S., in concrete post; standard tablet stamped "1510 E R A 1935"	780.713

*Accuracy doubtful because of insufficient connections.

	<u>Feet</u>
T. 65 N., R. 11 W., quarter cor. between secs. 11 and 12, 48 ft. S. and 12 ft. W. from N.-S. crossroad, on S. end of W. concrete head wall of culvert; (mark not described)	754.86
T. 65 N., Rs. 10 and 11 W., quarter cor. between secs. 7 and 12, 40 ft. S. and 15 ft. W. from N.-S. crossroad, on S. end of W. concrete head wall of culvert; chiseled square	749.33
T. 65 N., R. 10 W., near E. sixteenth 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	738.34
Culvert, on W. end of S. concrete head wall; chiseled cross	759.78
T. 65 N., R. 10 W., quarter cor. between secs. 8 and 9, 40 ft. N. and 115 ft. W. from junction of County Route A and rd. N. to Arbela, in concrete post; standard tablet stamped "1511 E R A 1935"	763.347
Bridge, on N. end of E. concrete curbing at N. end of; chiseled square	685.53
T. 65 N., R. 10 W., S. sixteenth cor. between secs. 16 and 17, 18 ft. N. and 72 ft. E. from junction of rd. E., in root on S. side of 30-in. elm tree; nail and washers	735.50
T. 65 N., R. 10 W., N. sixteenth cor. between secs. 20 and 21, 225 ft. N. and 35 ft. E. from junction of rd. W., in root on E. side of triple mulberry tree; copper nail and washer	749.87
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	755.66
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 4 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 102 C 1936"	765.685
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	760.28
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	727.63
U.S.C. & G.S. standard disk stamped "X 84 1935"	720.576
T. 64 N., R. 10 W., near cor. secs. 19, 20, 29, and 30, at SE. corner of steel bridge over drainage canal, on SE. corner of steel header plate; painted square	648.18
T. 64 N., R. 10 W., near E. sixteenth cor. between secs. 29 and 32, on top of NW. corner of NW. concrete pier of steel bridge over drainage canal; chiseled square	645.98
T. 64 N., R. 10 W., 0.2 mi. W. of S. cor. secs. 32 and 33, 25 ft. N. and 25 ft. E. from T-rd. N., in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "T T 126 C 1936"	675.057
T. 63 N., R. 10 W., near E. sixteenth 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	651.23
T. 63 N., R. 10 W., near center sec. 8, 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	737.52
Small steel bridge, at SW. corner of, in wooden beam; crossed nails	743.72
T. 63 N., R. 10 W., approximate cor. secs. 8, 9, 16, and 17, 90 ft. S. and 45 ft. W. from T-rd. W., in root on S. side of 30-in. maple tree; copper nail and washer	763.19
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 14-in. walnut tree; copper nail and washer	758.65
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 Fabius River; top of N. bolt	648.38
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	729.67
Junction of lane to farmhouse, 12 ft. S. and 30 ft. E. from, on S. end of iron pipe culvert; chiseled square	779.06
T. 65 N., R. 12 W., near W. sixteenth cor. sec. 25, 300 ft. N. and 30 ft. E. from junction of rd. S., 250 ft. N. of Miller School, in root on N. side of 8-in. elm tree; copper nail and washer	803.25
T. 65 N., R. 12 W., center sec. 26, 45 ft. S. of rd. W., 5 ft. E. of fence, at curve in highway from E.-S., in concrete post; standard tablet stamped "1506 C W A 1935"	795.769
T. 65 N., R. 12 W., 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	804.89
Tps. 64 and 65 N., R. 12 W., quarter cor. between secs. 2 and 35, 30 ft. N. and 17 ft. W. from junction of rd. W., on S. end of W. concrete head wall of culvert; chiseled square	752.20
T. 64 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	803.40
T. 64 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	728.74
T. 64 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	806.77
T. 64 N., R. 12 W., near W. sixteenth cor. sec. 14, 31 ft. W. of highway, 40 ft. S. of County Route T, in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "T T 12 G 1935"	764.405
Reference mark, 70 ft. N. 80° W. of tablet, on W. end of S. concrete head wall of culvert; chiseled square	759.59

T. 64 N., R. 12 W., near W. sixteenth cor. between secs. 14 and 23, 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	Feet 815.27
T. 64 N., R. 12 W., near W. sixteenth cor. sec. 23, 20 ft. N. and 33 ft. E. from junction of rd. E., in root on S. side of 30-in. maple tree; copper nail and washer	765.60
T. 64 N., R. 12 W., near W. sixteenth cor. between secs. 23 and 26, 24.5 ft. SW. of junction of County Route W, on E. end of NE. wing wall of bridge over Middle Fabius River; chiseled square	713.71
T. 64 N., R. 12 W., cor. secs. 26, 27, 34, and 35, 25 ft. S. and 35 ft. W. from junction of rd. W., on W. end of S. concrete head wall of culvert; chiseled square	762.23
Tps. 63 and 64 N., R. 12 W., cor. secs. 2, 3, 34, and 35, 32 ft. N. and 42 ft. W. from crossroad on Knox-Scotland county line, in concrete post; standard tablet stamped "1507 C W A 1935"	811.960
Greensburg, 30 ft. S. and 45 ft. E. from E.-W. crossroad, on NW. corner of concrete base of gasoline pumps; chiseled square	794.39
T. 63 N., R. 12 W., S. sixteenth cor. between secs. 10 and 11, 12 ft. S. and 22 ft. W. from E.-W. crossroad, on S. end of concrete pipe culvert; chiseled square	814.43
T. 63 N., R. 12 W., quarter cor. between secs. 14 and 15, 60 ft. S. and 20 ft. W. from junction of rd. W., on S. end of W. concrete head wall of culvert; chiseled square	792.24
Culvert, on S. end of W. concrete head wall; chiseled square	765.17

(Continued in Edina quadrangle; see line 2.)

4. FROM GREENSBURG WEST INTO DOWNING QUADRANGLE AT SEC. 9, T. 63 N., R. 12 W. (by G. R. Hamlin in 1936)

T. 63 N., 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
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(Continued in Downing quadrangle; see line 3.)

5. FROM SEC. 14, T. 64 N., R. 12 W., WEST ALONG COUNTY ROUTE T INTO DOWNING QUADRANGLE (by G. R. Hamlin in 1936)

T. 64 N., 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
T. 64 N., R. 12 W., in W 1/2 sec. 16, on N. end of W. concrete curbing of bridge; chiseled square	720.22

(Continued in Downing quadrangle; see line 5.)

6. FROM POINT 1.5 MILES EAST OF MEMPHIS NORTHEAST TO POINT NEAR CENTER OF SEC. 5, T. 65 N., R. 11 W. (by G. R. Hamlin in 1936)

U.S.C. & G.S. standard disk stamped "D 86 1935"	777.774
Crossroads, at NW. corner of, on N. end of iron pipe culvert; painted square	781.83
Memphis triangulation sta.; U.S.C. & G.S. standard disk designated "Memphis 1934"	799.064
U.S.C. & G.S. standard reference disk designated "Memphis No 2 1934"	799.138

7. FROM WYACONDA QUADRANGLE AT SEC. 10, T. 64 N., R. 10 W., WEST TO GORIN (by F. Y. Brown in 1937)

(Continued from Wyaconda quadrangle; see line 7.)

T. 64 N., R. 10 W., in SW 1/4 sec. 10, 700 ft. E. of T-rd. W., 25 ft. N. of rd., in root on S. side of 16-in. oak tree; copper nail and washer	743.18
T. 64 N., 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 162 ft. E. from crossroad at cor. secs. 8, 9, 16, and 17, T. 64 N., R. 10 W., 35 ft. N. and 100 ft. E. from center line of Atchison, Topeka and Santa Fe R.R., in concrete post; standard tablet stamped "T T 103 C 1936"	708.734

8. FROM GORIN WEST TO SEC. 12, T. 64 N., R. 12 W. (by W. V. Kennedy in 1937)

Gorin, about 0.2 mi. SW. of Atchison, Topeka & Santa Fe Ry. sta., 45 ft. S. and 80 ft. W. from rd. crossing, 45 ft. S. and 30 ft. W. from crossroads, 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. 64 N., R. 10 W., 100 ft. N. of farmhouse of N. P. W. Miller, 45 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. 64 N., 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. 64 N., R. 11 W., 150 ft. E. of rd. fork S., on concrete pier at SW. corner of steel bridge over drainage canal; chiseled square	663.14
Gorin, 3.2 mi. W. of, approximate E. sixteenth cor. between secs. 11 and 14, T. 64 N., R. 11 W., 48 ft. N. and 25 ft. W. from T-rd. N., in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "K 10 1937"	689.847

	<u>Feet</u>
Reference mark, 600 ft. E. of tablet, on S. head wall of concrete culvert; chiseled square	665.50
T. 64 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	662.50
T. 64 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	744.29
T. 64 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	675.16
T. 64 N., R. 11 W., near cor. secs. 2, 3, 10, and 11, about 0.2 mi. S. of South Liberty School, 25 ft. N. and 30 ft. W. from T-rd. W. and abandoned lane E., in root on SE. side of 12-in. white-oak tree; copper nail and washer	741.50
T-rd. S., 90 ft. N. and 15 ft. W. from, in root on W. side of forked wild-cherry tree; crossed nails	773.37
T. 64 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	749.74
T. 64 N., R. 11 W., W. sixteenth cor. between secs. 9 and 16, 25 ft. S. and 37 ft. W. from T-rd. S., on land owned by Ben Mickel, in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "71 C W A 1934"	793.048
T. 64 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	796.55
T. 64 N., R. 11 W., E. sixteenth cor. between secs. 7 and 18, 45 ft. N. and 60 ft. W. from crossroads, in root on E. side of 20-in. elm tree; copper nail and washer	749.91
T. 64 N., Rs. 11 and 12 W., cor. secs. 7, 12, 13, and 18, 10 ft. N. and 120 ft. E. from T-rd. S., on N. head wall of concrete culvert; chiseled square	773.88
T. 64 N., R. 12 W., approximate E. sixteenth cor. between secs. 12 and 13, 25 ft. N. and 25 ft. W. from rd. forks, 150 ft. N. of dwelling, in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "K 11 1937"	804.338
T. 64 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	815.12
T. 64 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	717.05

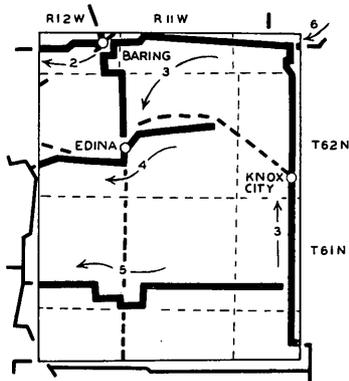
9. FROM POINT ABOUT 2 MILES WEST OF ARBELA EAST TO ARBELA, THENCE NORTHEAST INTO CANTRIL QUADRANGLE AT SEC. 28, T. 66 N., R. 10 W. (by W. V. Kennedy in 1937)

U.S.C. & G.S. standard disk stamped "B 86 1935"	774.920
U.S.C. & G.S. standard disk stamped "A 86 1935"	871.065
Arbela, 0.4 mi. N. of, on NE. pier of steel bridge over creek, on bolt head; painted square	667.38
Arbela, 1 mi. N. and 0.5 mi. E. of, E. sixteenth cor. between secs. 4 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 48-in. black-oak tree; copper nail and washer	752.76
T. 66 N., R. 10 W., E. sixteenth cor. between secs. 28 and 33, 50 ft. S. and 21 ft. W. from T-rd. W., 2 ft. W. of fence, in concrete post; standard tablet stamped "T T 25 G 1935"	743.795
T. 66 N., R. 10 W., in NW 1/4 sec. 28, 12 ft. N. and 7 ft. W. from rd. corner S.-E., on concrete base of corner fence post; chiseled square	733.74

(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 Jet. and Hurland to Fort Madison, Iowa.

EDINA QUADRANGLE
 (Latitude $40^{\circ}00' - 40^{\circ}15'$; longitude $92^{\circ}00' - 92^{\circ}15'$)
 Knox County



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

	Feet
T. 61 N., R. 10 W., quarter cor. between secs. 8 and 9, NE. of crossroads; iron post stamped "696 A"	695.538
T. 61 N., R. 11 W., in SE 1/4 sec. 9, in corner of dooryard of Robert Hysell; iron post stamped "735 A"	735.234
Edina, in front of Quincy, Omaha & Kansas City R.R. sta.; top of rail	734.0
T. 62 N., R. 12 W., in NE 1/4 sec. 21, about 90 ft. S. of Quincy, Omaha & Kansas City R.R. at rd. corner; iron post stamped "842 A"	842.080

2. FROM MEMPHIS QUADRANGLE NEAR BARING, WEST ALONG STATE HIGHWAY 11 INTO La PLATA QUADRANGLE (by G. R. Hamlin in 1936)
 (Continued from Memphis quadrangle; see line 3.)

U.S.C. & G.S. standard disk stamped "Q 84 1935"	811.193
Baring, 0.8 mi. W. of Atchison, Topeka & Santa Fe Ry. sta., 43 ft. S. and 230 ft. W. from junction of State Highways 11 and 15, in concrete post; standard tablet stamped "3 G 1935"	826.524
T. 63 N., R. 12 W., in NW 1/4 sec. 27, 15 ft. S. and 370 ft. E. from N.-S. crossroad, on W. end of S. concrete head wall of culvert; chiseled square	815.15
T. 63 N., R. 12 W., N. sixteenth cor. sec. 28, 15 ft. N. and 480 ft. E. from junction of rd. S., on W. end of N. concrete curbing of bridge; chiseled square	773.67

(Continued in La Plata quadrangle; see line 7.)

3. FROM La BELLE 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)
 (Continued from La Belle quadrangle; see line 4.)

T. 60 N., R. 10 W., E. sixteenth cor. sec. 10, 20 ft. S. of T-rd. N., in field, 3 ft. S. of fence corner, in concrete post; U.S.C. & G.S. and State Survey standard disk	748.963
T. 60 N., R. 10 W., near quarter cor. between secs. 3 and 4, 500 ft. N. of T-rd. N., 30 ft. W. of rd., in root on E. side of 22-in. elm tree; copper nail and washer	764.23
Rd., 70 ft. W. of, in farmyard, in root on E. side of 20-in. maple tree; crossed nails	759.07
Small wooden bridge, 12 ft. W. of, on center of W. head wall of concrete culvert; chiseled square	724.73
T. 61 N., R. 10 W., cor. secs. 27, 28, 33, and 34, 25 ft. N. and 60 ft. W. from T-rd. W., in root on E. side of 18-in. hickory tree; copper nail and washer	726.51
T. 61 N., R. 10 W., on line between secs. 27 and 28, 20 ft. E. of rd., in root on W. side of 14-in. wild-cherry tree; crossed nails	769.17
Knox City, 5.5 mi. S. of, cor. secs. 21, 22, 27, and 28, 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 "T T 1 C 1937"	739.028
T. 61 N., R. 10 W., on line between secs. 21 and 22, on N. end of W. head wall of concrete pipe culvert; chiseled square	703.19
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	718.35
Dwelling, 25 ft. N. and 60 ft. E. from NE. corner of, 30 ft. W. of rd., in root on S. side of 14-in. maple tree; crossed nails	736.19

	<u>Feet</u>
Knox City, about 3.8 mi. S. of, near N. sixteenth cor. between secs. 15 and 16, T. 61 N., R. 10 W., 40 ft. N. and 20 ft. E. from iron bridge, in fence line, in root on W. side of 20-in. elm tree; copper nail and washer	684.91
Knox City, 3 mi. S. of, quarter cor. between secs. 9 and 10, T. 61 N., R. 10 W., 33 ft. S. and 42 ft. E. from crossroads, in concrete post; U.S.C. & G.S. and State Survey standard disk	755.277
T. 61 N., R. 10 W., in sec. 9, 20 ft. S. of rd., in root on N. side of 40-in. burr-oak tree; crossed nails	742.69
Knox City, 1.7 mi. S. of, near S. sixteenth cor. between secs. 3 and 4, T. 61 N., R. 10 W., 30 ft. E. of dwelling of E. E. Benatine, 40 ft. W. of rd., in root on E. side of 14-in. cedar tree; copper nail and washer	751.02
Knox City, 1 mi. S. of, near cor. secs. 3, 4, 33, and 34, Tps. 61 and 62 N., R. 10 W., 15 ft. N. and 90 ft. W. from T-rd. W., in root on N. side of 10-in. locust tree; copper nail and washer	753.38
T. 62 N., R. 10 W., on line between secs. 33 and 34, 250 ft. N. of steel bridge, 35 ft. E. of rd., in root on N. side of 16-in. elm tree; crossed nails	709.82
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 26-in. elm tree; copper nail and washer	744.16
Knox City, 3 blocks E. of business district, 1 block S. of high school, 25 ft. S. and 50 ft. E. from State Highway 6 at N.-S. cross street, in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "T T 9 G 1935"	760.116
Reference mark, 60 ft. W. of tablet, on corner of concrete curbing; chiseled square	760.01
U.S.C. & G.S. standard disk stamped "X 15 1933"	763.827
Knox City, 0.8 mi. N. of, near cor. secs. 21, 22, 27, and 28, T. 62 N., R. 10 W., 60 ft. S. and 40 ft. W. from crossroads, 50 ft. E. of farmhouse of W. A. Miller, in root on W. side of 14-in. black-locust tree; copper nail and washer	760.32
Small wooden bridge, 200 ft. S. of, 40 ft. W. of rd., in root on S. side of 12-in. white-oak tree; crossed nails	713.78
Knox City, about 2 mi. N. of, near S. sixteenth cor. between secs. 15 and 16, T. 62 N., R. 10 W., 1 ft. S. and 45 ft. E. from T-rd. NE., 10 ft. S. of fence line, in root on N. side of 24-in. locust tree; copper nail and washer	691.35
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	654.98
Knox City, about 2.5 mi. N. 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 40-in. elm tree; copper nail and washer	647.59
Knox City, 3 mi. N. of, quarter cor. between secs. 9 and 10, T. 62 N., R. 10 W., 225 ft. N. and 43 ft. W. from T-rd. E., SW. of rd. fork NW., in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "T T 8 G 1935"	744.824
Knox City, about 3.6 mi. N. of, about 800 ft. N. of cor. secs. 3, 4, 9, and 10, T. 62 N., R. 10 W., 225 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 30-in. cottonwood tree; copper nail and washer	643.46
Knox City, about 4.3 mi. N. of, on line between secs. 3 and 4, T. 62 N., R. 10 W., 25 ft. W. and 70 ft. E. from rd. forks, in fence line, in root on S. side of 14-in. white-oak tree; copper nail and washer	751.26
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 dim crossroads, 25 ft. W. of rd., in root on N. side of 22-in. white-oak tree; copper nail and washer	754.95
Knox City, about 5.1 mi. N. of, in S 1/2 sec. 33, T. 63 N., R. 10 W., 40 ft. S. of T-rd. N., in root on N. side of 16-in. black-oak tree; copper nail and washer	742.57
Knox City, 6 mi. N. of, near E. sixteenth cor. between secs. 28 and 33, T. 63 N., R. 10 W., 137 ft. W. of SW. corner of Brushy School, 23 ft. N. and 19 ft. W. from crossroads, in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "T T 7 G 1935"	740.626
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	654.74
T. 63 N., R. 10 W., near E. sixteenth cor. between secs. 21 and 28, 60 ft. N. of rd., in field, in root on E. side of 30-in. water-oak tree (southernmost one of 2 large oaks); copper nail and washer	642.49
T. 63 N., R. 10 W., cor. secs. 20, 21, 28, and 29, 16 ft. N. and 29 ft. E. from crossroads, in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "T T 6 G 1935"	643.886
Top of hill, 35 ft. S. of rd., in front yard of farmhouse of D. L. Sharp, in root on S. side of 16-in. elm tree; crossed nails	722.44
T-rd. S., 45 ft. S. and 25 ft. W. from, in fence post at surface of ground; spike	746.48
T. 63 N., R. 10 W., near E. sixteenth cor. between secs. 19 and 30, 350 ft. W. of T-rd. N., 40 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	704.32
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; crossed nails	688.28
T. 63 N., Rs. 10 and 11 W., 32 ft. N. and 18 ft. W. from cor. secs. 19, 24, 25, and 30, 56 ft. N. and 16 ft. W. from T-rd. S., 25 ft. S. and 60 ft. E. from SE. corner of farmhouse of L. A. Schauf, 2 ft. E. of fence line, in concrete post; standard tablet stamped "10 B 1956"	758.784

	<u>Feet</u>
T. 63 N., R. 11 W., near quarter cor. between secs. 24 and 25, 40 ft. 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. 24 and 25, 20 ft. N. and 70 ft. E. from T-rd. N., 40 ft. S. of farmhouse of Ross Saulsbury, in root on N. side of 14-in. elm tree; copper nail and washer	774.13
T. 63 N., R. 11 W., near cor. secs. 23, 24, 25, and 26, 125 ft. S. and 25 ft. E. from T-rd. S., in fence line, in root on N. side of 16-in. elm tree; copper nail and washer	751.29
T. 63 N., R. 11 W., near W. sixteenth cor. between secs. 23 and 26, 40 ft. S. and 250 ft. W. from crossroads, in root on N. side of 28-in. elm 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 5 G 1935"	763.958
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 28, 25 ft. N. and 10 ft. E. from dim crossroads, about 900 ft. E. of iron bridge, in root on N. side of twin 8-in. oak tree; copper nail and washer	775.95
T. 63 N., R. 11 W., on line between secs. 24 and 28, at SW. corner of steel bridge; surface of floor	708.8
T. 63 N., R. 11 W., near cor. secs. 20, 21, 28, and 29, 20 ft. N. and 75 ft. E. from crossroads, in root on N. side of 18-in. elm tree; copper nail and washer	740.19
T. 63 N., R. 11 W., on line between secs. 20 and 29, 45 ft. N. of rd., in SW. corner of yard of J. Bruegenhemke, in root on E. side of 10-in. hickory tree; nail and washers	780.86
T. 63 N., R. 11 W., on line between secs. 20 and 29, 45 ft. N. of rd., in barnyard, on top of SW. corner of concrete scale foundation; chiseled square	788.59
Baring, 2.5 mi. E. of, cor. secs. 19, 20, 29, and 30, T. 63 N., R. 11 W., 16 ft. N. and 25 ft. E. from E-W rd. at rd. S., 19 ft. E. of rd. N., in concrete post; standard tablet stamped "T 4 G 1935"	802.423
T. 63 N., R. 11 W., on line between secs. 19 and 30, 130 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., Rs. 11 and 12 W., near N. sixteenth cor. between secs. 25 and 30, 40 ft. N. and 100 ft. W. from crossroads, in root on W. side of 14-in. white-oak tree; copper nail and washer	746.99
Baring, 0.4 mi. E. of, near N. sixteenth cor. between secs. 25 and 26, T. 63 N., R. 12 W., 60 ft. N. and 25 ft. W. from old State Highway 15 at crossroad, in root on W. side of 15-in. elm tree; copper nail and washer	808.52
U.S.C. & G.S. standard disk stamped "Q 8L 1935"	811.193
U.S.C. & G.S. standard disk stamped "QQ 8L 1935"	812.548
Baring, 0.8 mi. S. and 0.4 mi. E. from, near cor. secs. 25, 26, 35, and 36, T. 63 N., R. 12 W., 22 ft. W. of old State Highway 15, on N. end of W. head wall of concrete culvert; chiseled square	768.93
Tps. 62 and 63 N., R. 12 W., cor. secs. 1, 2, 35, and 36, 200 ft. N. and 125 ft. E. from, 25 ft. SW. of old State Highway 15 at curve, on NW. corner of SW. head wall of concrete culvert; chiseled square	784.56
Tps. 62 and 63 N., Rs. 11 and 12 W., cor. of, 28 ft. S. and 143 ft. W. from T-rd. S.; 135 ft. NE. of highway at curve, in concrete post; standard tablet stamped "T 1508 E R A 1935"	805.188
T. 62 N., R. 12 W., in SE 1/4 sec. 1, 110 ft. W. of State Highway 15, about 800 ft. NW. of dwelling, in E. side of twin wild-cherry tree; copper nail and washer	806.46
Edina, 1.8 mi. N. of, along State Highway 15, 25 ft. S. and 140 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 "X 154 1935"	732.758
U.S.C. & G.S. standard disk stamped "Z 15 1935"	734.123
T. 61 N., R. 10 W., quarter cor. between secs. 8 and 9, NE. of crossroads; iron post stamped "696 A"	695.538

4. FROM POINT 4.4 MILES EAST OF EDINA WEST ALONG STATE HIGHWAY 6 INTO LA PLATA QUADRANGLE (by F. Y. Brown in 1936)

U.S.C. & G.S. standard disk stamped "U 15 1933"	774.828
Edina, 3 mi. E. of, 45 ft. N. and 30 ft. E. from junction of rd. N., in concrete post; standard tablet stamped "1427 C W A 1934"	754.619
Reference mark, 15 ft. N. of highway, 12 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-549 1933; chiseled square	742.27
T. 62 N., R. 11 W., on line between secs. 16 and 21, 60 ft. E. of front yard gate to dwelling of L. Haffarman, 20 ft. N. of highway, on center of N. head wall of small concrete culvert; chiseled square	770.78
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	777.93
Edina, 0.6 mi. E. of, 575 ft. W. of junction of rd. S., 14 ft. S. of highway, on S. end of E. abutment of bridge J-550 over North Fork of South Fabius River; chiseled square	729.71
Edina, near E. limits of, 60 ft. N. of junction of rd. SE., in root on N. side of 18-in. white-oak tree; crossed nails	792.76

	<u>Feet</u>
Edina, 40 ft. S. of SE. corner of courthouse, in concrete post; aluminum tablet stamped "814 A" (as reset in 1936; old elev. 814.916)	814.079
Reference mark, 15 ft. N. and 15 ft. E. from tablet, in root on N. side of 18-in. elm tree; copper nail and washer	814.15
U.S.C. & G.S. standard disk stamped "Y 134 1935"	816.337
Edina, 0.5 mi. S. of, 0.2 mi. N. of junction of State Highway 15, 20 ft. E. of highway, on E. end of S. abutment of bridge H-770 1933 over South Fork of South Fabius River; chiseled square	735.95
Edina, 1.3 mi. S. and W. from, 640 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 (center one of group of 4 trees); copper nail and washer	764.68
Edina, 1.7 mi. S. and W. from, 45 ft. S. and 40 ft. E. from junction of rd. S., in concrete post; standard tablet stamped "1426 C W A 1934"	813.520
Junction of rd. N., 30 ft. S. and 115 ft. E. from, on center of S. head wall of concrete culvert; chiseled square	779.32
Edina, 3 mi. W. of, 30 ft. N. and 40 ft. E. from crossroad, on W. end of N. head wall of large concrete culvert; chiseled square	768.31
T. 62 N., R. 12 W., W. sixteenth cor. between secs. 22 and 27, 50 ft. E. of private drive to farm of Roy A. Lang, on center of E. head wall of concrete culvert; chiseled square	803.86
T. 62 N., R. 12 W., near E. sixteenth cor. between secs. 21 and 28, 40 ft. N. of highway, 12 ft. E. of rd. N., on center of E. head wall of small concrete culvert; chiseled square	845.32
T. 62 N., R. 12 W., near quarter cor. between secs. 21 and 28, at curve in highway, 35 ft. S. and 18 ft. W. from junction of rds. S. and W., on center of S. head wall of concrete culvert; chiseled square	849.32

(Continued in La Plata quadrangle; see line 8.)

5. FROM SEC. 28, T. 61 N., R. 10 W.; WEST INTO La PLATA QUADRANGLE AT SEC. 28, T. 61 N., R. 12 W. (by F. Y. Brown in 1936)

T. 61 N., R. 10 W., on line between secs. 28 and 33, 225 ft. W. of entrance to farm, 30 ft. S. of rd., in root on N. side of 22-in. elm tree; crossed nails	732.58
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	763.24
T. 61 N., R. 10 W., near quarter cor. between secs. 29 and 32, 90 ft. S. and 45 ft. W. from T-rd. S., in NE. corner of base of windmill; top of painted bolt head	774.60
T. 61 N., R. 10 W., near cor. secs. 29, 30, 31, and 32, 50 ft. S. and 55 ft. E. from T-rd. N., in root on N. side of 16-in. black-oak tree; copper nail and washer	743.24
T. 61 N., R. 10 and 11 W., 800 ft. E. of cor. secs. 25, 30, 31, and 36, 30 ft. N. and 45 ft. W. from crossroads, in concrete post; standard tablet stamped "11 B 1936"	707.640
Steel bridge, 20 ft. S. of W. end of, in root on N. side of 16-in. elm tree; crossed nails	682.39
T. 61 N., R. 11 W., near cor. secs. 25, 26, 35, and 36, 25 ft. S. and 45 ft. E. from T-rd. S., 6 ft. S. of fence line, in root on W. side of 14-in. white-oak tree; copper nail and washer	764.55
T. 61 N., R. 11 W., near quarter cor. between secs. 26 and 35, 155 ft. W. of T-rd. N., 25 ft. S. of rd., 45 ft. N. of NE. corner of barn, 15 ft. W. of driveway, in root on N. side of 18-in. black-oak tree; copper nail and washer	783.71
T. 61 N., R. 11 W., on line between secs. 26 and 35, 160 ft. W. of small steel bridge, 15 ft. S. of rd., in fence line, in root on E. side of 20-in. elm tree; crossed nails	702.88
T. 61 N., R. 11 W., cor. secs. 26, 27, 34, and 35, 110 ft. W. of T-rd. S., 20 ft. N. of rd., in root on N. side of 16-in. hickory tree; copper nail and washer	748.08
T. 61 N., R. 11 W., near quarter cor. between secs. 27 and 34, 15 ft. N. and 60 ft. E. from T-rd. N., in root on E. side of 20-in. elm tree; copper nail and washer	772.07
Marquess triangulation sta.; U.S.C. & G.S. standard disk stamped "Marquess 1934"	806.705
U.S.C. & G.S. standard reference disk stamped "Marquess No 2 1934"	797.749
T. 61 N., R. 11 W., near E. sixteenth cor. between secs. 28 and 33, 315 ft. NE. of farmhouse, 50 ft. S. of rd., in root on N. side of 12-in. cedar tree; copper nail and washer	798.72
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	796.39
T. 61 N., R. 11 W., cor. secs. 28, 29, 32, and 33, 55 ft. N. and 130 ft. E. from crossroads, 25 ft. S. of SW. corner of Methodist Church, in root on S. side of 18-in. hickory tree; copper nail and washer	786.68
T. 61 N., R. 11 W., quarter cor. between secs. 29 and 32, 30 ft. N. and 50 ft. E. from T-rd. N., in concrete post; standard tablet stamped "12 B 1936"	790.639
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 36-in. elm tree; copper nail and washer	743.84
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	806.67
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 W. side of twin 14-in. elm tree; copper nail and washer	785.19
T. 60 N., R. 11 W., in N 1/2 sec. 6, about 25 ft. S. of farmhouse of J. M. Meyer, 50 ft. N. of rd., 40 ft. E. of driveway, in root on W. side of 30-in. maple tree; crossed nails	786.11

T. 60 N., Rs. 11 and 12 W., near N. sixteenth cor. between secs. 1 and 6, 20 ft. E. of State Highway 15, 16 ft. N. of rd. E., on center of E. head wall of concrete culvert; chiseled square	<u>Feet</u> 801.43 781.731
U.S.C. & G.S. standard disk stamped "S 134 1935"	
Small steel bridge, 20 ft. W. of, 15 ft. S. of rd., in fence line, in root on W. side of 40-in. elm tree; crossed nails	774.79
Tps. 60 and 61 N., R. 12 W., on line between secs. 2 and 35, 25 ft. N. and 350 ft. E. from T-rd. S., 25 ft. N. and 300 ft. E. from T-rd. N., about 65 ft. SE. of barn, in fence line, in root on W. side of 14-in. ash tree; copper nail and washer	816.11
T. 61 N., R. 12 W., quarter cor. between secs. 26 and 35, 250 ft. S. and 42 ft. W. from crossroads, 10 ft. S. and 40 ft. E. from SE. corner of Pleasant Run School, in concrete post; standard tablet stamped "13 B 1936"	811.431
T. 61 N., R. 12 W., near E. sixteenth cor. between secs. 27 and 34, 25 ft. N. and 60 ft. W. from T-rd. N., in root on S. side of 20-in. black-oak tree; copper nail and washer	796.35
T. 61 N., R. 12 W., near W. sixteenth cor. between secs. 27 and 34, 200 ft. S. and 20 ft. E. from T-rd. S., 10 ft. E. of fence line, in root on N. side of 22-in. elm tree; copper nail and washer	836.25
T. 61 N., R. 12 W., near E. sixteenth cor. between secs. 28 and 33, SE. of rd. corner from E.-S., in root on W. side of 8-in. hedge tree; crossed nails	856.13
T. 61 N., R. 12 W., near W. sixteenth cor. between secs. 28 and 33, 45 ft. S. and 20 ft. E. from T-rd. W., in fence line, in root on S. side of 12-in. water-oak tree; copper nail and washer	827.89

(Continued in La Plata quadrangle; see line 10.)

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
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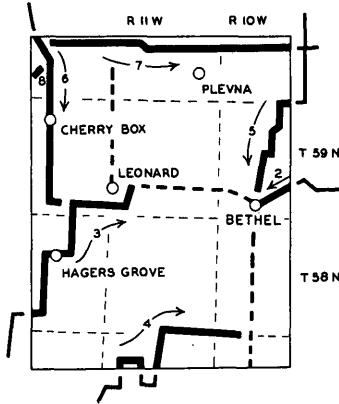
TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY FIRST-ORDER
LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE
ABOUT 3 MILES WEST OF EDINA (by F. Y. Brown in 1936)

T. 62 N., R. 12 W., near E. sixteenth cor. between secs. 21 and 28, 40 ft. N. of highway, 12 ft. E. of rd. N., on center of E. head wall of small concrete culvert; chiseled square	844.32 842.567
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.

SHELBYVILLE QUADRANGLE
(Latitude 39°45'-40°00'; longitude 92°00'-92°15')

Knox and Shelby Counties



1. ISOLATED BENCHMARKS (not shown on diagram; by D. V. Vandiver in 1905)

	<u>Feet</u>
Pleasant View School, 4 mi. N. of Cherry Box, 60 ft. W. of school, at rd. forks, opposite mail boxes; iron post stamped "1905 849 Adj"	848.836
Plevna, 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 791 Adj"	791.627
T. 58 N., R. 11 W., near cor. secs. 1, 2, 11, and 12, 5 mi. NW. of Shelbyville, 300 ft. E. of O'Brien Chapel, in NE. cornerstone of O'Brien School; aluminum tablet stamped "1905 788 Adj"	788.552
T. 58 N., R. 10 W., near cor. secs. 5, 6, 7, and 8, 3 mi. NW. of Shelbyville, in SW. corner of dwelling of William Werter; aluminum tablet stamped "1905 785 Adj"	784.830
Shelbyville, 2 ft. E. of S. entrance to courthouse, in foundation stone; aluminum tablet stamped "1905 774 Adj"	774.290
Shelbyville, 4 mi. S. of, near T-rd. E., in NW. corner of field of C. J. Anderson, 2 ft. SE. of corner fence post; iron post stamped "Prim Trav Sta No 7 1905 762 Adj"	762.769
Cherry Box, 3 mi. S. of, cor. secs. 27, 38, 33, and 34, T. 59 N., R. 12 W., 35 ft. N. and 20 ft. E. from crossroads, in fence corner; iron post stamped "Prim Trav Sta No 14 1905 835 Adj"	834.974
Hagers Grove, 0.5 mi. S. and 0.5 mi. W. (? 1.5 mi. SW.) from, at top of hill, in orchard; iron post stamped "Prim Trav Sta No 16 1905 Adj"	769.285
Tps. 57 and 58 N., R. 12 W., quarter cor. between secs. 4 and 33, 16 ft. N. and 14 ft. W. from rd. corner W.-N., 2 ft. SE. of fence; iron post stamped "Prim Trav Sta No 17 1905 803 Adj"	802.688
T. 60 N., R. 12 W., in S 1/2 sec. 28, 765 ft. W. of Pleasant View School, 20 ft. N. of T-rd. S.; iron post stamped "1905 849 Adj" (same as "849" above)	848.836

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)

(Continued from Newark quadrangle; see line 4.)

Bethel, one-half block S. of post office, 42 ft. N. and 32 ft. E. from State Highway 15 at cross street, in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "85 C W A 1934"	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)	708.163

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)

(Continued from Atlanta quadrangle; see line 5.)

T. 58 N., R. 12 W., in E 1/2 sec. 33, 210 ft. N. and 45 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; nail	715.84
T. 58 N., R. 12 W., near cor. secs. 21, 22, 27, and 28, 218 ft. S. of rd. forks, 15 ft. W. of rd., in root on SE. side of 26-in. hickory tree; copper nail and washer	733.63
T. 58 N., R. 12 W., S. sixteenth cor. between secs. 15 and 16, 20 ft. S. and 43 ft. W. from T-rd. W., 2 ft. S. of fence, in concrete post; standard tablet stamped "4 B 1936"	725.541

	Feet
Bridge over Salt River, on SW. rivet of SW. pier; chiseled cross	722.52
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	753.02
Hagers Grove, 1 mi. N. of, E. sixteenth cor. sec. 10, T. 58 N., R. 12 W., 60 ft. N. and 60 ft. E. from T-rd. S., 3 ft. N. and 1 ft. W. from SW. corner of schoolhouse, in concrete post; standard tablet stamped "6 B 1936"	798.329
T. 58 N., R. 12 W., quarter cor. between secs. 3 and 10, 35 ft. E. of rd. at E.-W. fences, in root on NW. side of 22-in. post-oak tree; copper nail and washer	786.51
T. 58 N., R. 12 W., W. sixteenth cor. on N. line sec. 3, 25 ft. S. and 25 ft. E. from T-rd. S., in corner fence post; nail	816.71
T-rd. W., 27 ft. N. and 30 ft. W. from, in corner fence post; nail	819.69
T. 59 N., R. 12 W., cor. secs. 26, 27, 34, and 35, 18 ft. S. and 80 ft. W. from rd. at N.-S. fence, in root on NW. side of 44-in. elm tree; copper nail and washer	816.84
T. 59 N., R. 12 W., cor. secs. 25, 26, 35, and 36, 55 ft. N. and 25 ft. E. from T-rd. W., in SW. side of 26-in. elm tree; nail	765.08
Leonard, 1 mi. S. of, cor. secs. 25, 30, 31, and 36, T. 59 N., Rs. 11 and 12 W., 60 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "7 B 1936"	798.501
Leonard, 1 mi. S., thence 0.5 mi. E. from, near quarter cor. between secs. 30 and 31, T. 59 N., R. 11 W., 20 ft. S. and 25 ft. E. from T-rd. S., in gatepost; nail	771.32
Leonard, 1 mi. S., thence 0.8 mi. E. from, E. sixteenth cor. between secs. 30 and 31, T. 59 N., R. 11 W., 18 ft. N. and 33 ft. E. from T-rd. N., in root on N. side of 24-in. hickory tree; copper nail and washer	749.83
Leonard, 1 mi. S., thence 2 mi. E. from, cor. secs. 28, 29, 32, and 33, T. 59 N., R. 11 W., 21 ft. N. and 25 ft. W. from crossroads, in W. side of fence post; copper nail and washer	797.41
Leonard, about 2 mi. E. of, along County Route M, cor. secs. 20, 21, 28, and 29, T. 59 N., R. 11 W., 40 ft. S. and 20 ft. W. from crossroad, in S. side of corner fence post; copper nail and washer	789.84
U.S.C. & G.S. standard disk stamped "K 134 1935"	805.199
4. FROM SHELBYNA QUADRANGLE AT SEC. 12, T. 57 N., R. 12 W., NORTHEAST TO STATE HIGHWAY 15 AT POINT ABOUT 3 MILES SOUTH OF SHELEYVILLE (by Cornish Beck in 1936)	
(Continued from Shelbyna 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	780.84
T. 57 N., R. 11 W., cor. secs. 7, 8, 17, and 18, 20 ft. S. and 150 ft. E. from T-rd. S., in root on S. side of 20-in. elm tree; copper nail and washer	796.16
T. 57 N., R. 11 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	783.00
T. 57 N., R. 11 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"	778.957
(For balance in Shelbyna 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	716.40
Bridge over Salt River, on W. rivet of SW. pier; chiseled cross	696.62
T. 58 N., R. 11 W., S. cor. secs. 33 and 34, 5 ft. S. and 73 ft. W. from T-rd. N., in concrete post; standard tablet stamped "2 B 1936"	700.689
T. 58 N., R. 11 W., S. cor. secs. 34 and 35, 10 ft. N. and 35 ft. W. from T-rd. N., on head wall of culvert; chiseled square	698.45
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	704.08
T. 57 N., R. 11 W., N. cor. secs. 1 and 2, 6 ft. N. and 300 ft. E. from T-rd. S., on concrete head wall of bridge; chiseled square	737.76
Tps. 57 and 58 N., Rs. 10 and 11 W., cor. of, 31 ft. S. and 21 ft. E. from crossroads, in concrete post; standard tablet stamped "3 B 1936"	770.009
T. 57 N., R. 10 W., near N. quarter cor. sec. 6, 20 ft. N. and 65 ft. E. from T-rd. S., on concrete base of gatepost; chiseled square	769.80
T. 57 N., R. 10 W., N. cor. secs. 5 and 6, 18 ft. S. and 15 ft. W. from rd. at hedge fence S., in S. side of gatepost; nail	769.40
T. 57 N., R. 10 W., near N. quarter cor. sec. 5, 16 ft. S. and 25 ft. W. from State Highway 15 at crossroad, on iron pipe culvert; chiseled square	766.62
U.S.C. & G.S. standard disk stamped "Z 133 1935"	764.838
5. FROM NEWARK QUADRANGLE AT POINT 4 MILES NORTH OF BETHEL, WEST TO STATE HIGHWAY 15, THENCE SOUTH ALONG HIGHWAY TO BETHEL (by F. Y. Brown in 1936)	
(Continued from Newark quadrangle; see line 7.)	
T. 59 N., R. 10 W., near center sec. 10, 40 ft. N. and 20 ft. E. from T-rd. E., 400 ft. W. of Shiloh Church, in root on S. side of 16-in. white-oak tree; copper nail and washer	754.06
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	765.61
Concrete culvert, on W. end of N. head wall; chiseled square	756.60
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 "T T 1 G 1935"	779.664

	Feet
Bethel, 1.5 mi. N. of, 25 ft. N. and 40 ft. W. from crossroad, on center of N. head wall of concrete culvert; chiseled square	773.72
Crossroad, 15 ft. N. and 55 ft. W. from, in fence line, in root on W. side of 20-in. elm tree; crossed nails	775.32
Bethel, 0.5 mi. N. of, 160 ft. S. and 40 ft. W. from junction of rd. W., in root on E. side of 24-in. elm tree; copper nail and washer	773.21
Bethel, at N. limits of, 15 ft. N. and 20 ft. W. from junction of rd. E., on S. end of W. head wall of concrete culvert; chiseled square	738.88

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 1936)
(Continued from La Plata quadrangle; see line 9.)

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 "1 B 1936" (2 ft. S. and 100 ft. W. from "Prim Trav Sta 3 1905", rusted off at ground level)	822.272
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	822.96
T. 60 N., R. 12 W., near E. sixteenth cor. between secs. 16 and 21, 45 ft. N. and 140 ft. W. from T-rd. S., 3 ft. N. and 3 ft. E. from entrance to yard of Jess Craggs, in root on S. side of 30-in. maple tree; copper nail and washer	846.87
T. 60 N., R. 12 W., near E. sixteenth cor. between secs. 16 and 21, 115 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	847.18
Dwelling of Ace Browning, 15 ft. W. of, 55 ft. E. of rd., in root on E. side of 16-in. cedar tree; crossed nails	836.36
Dwelling of Grover Easley, 50 ft. E. of SE. corner of, 40 ft. W. of rd., in root on E. side of 14-in. elm tree; crossed nails	828.35
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	821.82
T. 60 N., R. 12 W., on line between secs. 27 and 28, 140 ft. S. and 30 ft. E. from T-rd. W., in farmyard of O. C. Stockham, in root on N. side of 20-in. elm tree; copper nail and washer	810.09
Farmhouse of L. J. Turner, 500 ft. S. of, 25 ft. W. of rd., in fence corner, in root on E. side of 24-in. elm tree; crossed nails	843.95
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 Gary Wallace, 60 ft. E. of rd., in root on W. side of 36-in. maple tree; copper nail and washer	838.22
T. 59 N., R. 12 W., N. cor. secs. 3 and 4, 50 ft. S. and 210 ft. E. from T-rd. W., in root on S. side of 24-in. elm tree; crossed nails	810.59
T. 59 N., R. 12 W., near quarter cor. between secs. 3 and 4, 150 ft. S. and 110 ft. E. from crossroads, in root on S. side of 10-in. elm tree; copper nail and washer	823.73
Cherry Box, 1 mi. N. of, in front of farmhouse of Melvin Dutton, 20 ft. E. of rd., on center of concrete step; chiseled square	843.24
Cherry Box, 0.5 mi. N. of, 100 ft. W. of rd., in schoolyard, on NW. corner of concrete cistern top; chiseled square	838.86
Cherry Box, 60 ft. N. and 50 ft. E. from NE. corner of Christian Church, 45 ft. W. of rd., in concrete post; standard tablet stamped "2 B 1936"	832.254
Cherry Box, 0.5 mi. S. of, 60 ft. W. of rd., in farmyard, in root on E. side of 40-in. elm tree; crossed nails	836.67
Cherry Box, 1 mi. S. of, cor. secs. 15, 16, 21, and 22, T. 59 N., R. 12 W., 60 ft. N. and 35 ft. W. from crossroads, in yard, in root on W. side of dead, twin 16-in. maple tree; nail and washer	841.20
T. 59 N., R. 12 W., on line between secs. 21 and 22, in front of Church of The Brethern, 15 ft. W. of rd., on center of W. head wall of concrete culvert; chiseled square	810.13
Cherry Box, 2 mi. S. of, cor. secs. 21, 22, 27, and 28, T. 59 N., R. 12 W., 130 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 20-in. elm tree; copper nail and washer	835.29
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	830.90
T. 59 N., R. 12 W., on line between secs. 27 and 28, 45 ft. E. of Fairview School, 40 ft. W. of rd., on center of concrete step; chiseled square	821.90

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 1936)

Shelby County Northwestern R.R. (now abandoned) at rd. crossing, 20 ft. N. and 300 ft. W. from, opposite barn of C. V. Norris, in root on E. side of 12-in. elm tree; copper nail and washer	841.04
Novelty, 1 mi. S. 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	829.15
T-rd. N., 30 ft. N. and 75 ft. E. from, in root on W. side of 10-in. hickory tree; crossed nails	815.93
T. 60 N., R. 12 W., on line between secs. 14 and 23, 15 ft. N. and 90 ft. W. from T-rd. N., in root on E. side of 14-in. hickory tree; copper nail and washer	810.06

	<u>Feet</u>
Farmhouse of James Ross, in front yard, 25 ft. S. of rd., in root on N. side of 18-in. catalpa tree; crossed nails	826.32
T. 60 N., Rs. 11 and 12 W., approximate cor. secs. 13, 18, 19, and 24, 10 ft. S. and 50 ft. E. from County Route H at crossroad, in farmyard of B. F. Hunsaker, in root on W. side of 40-in. elm tree; copper nail and washer	819.20
U.S.C. & G.S. standard disk stamped "Q 134 1935"	820.550
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	767.34
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	769.83
T. 60 N., R. 11 W., W. sixteenth cor. sec. 21, 63 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	810.63
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	789.90
T. 60 N., R. 11 W., W. sixteenth cor. sec. 22, 70 ft. N. and 115 ft. E. from State Highway 15 at rd. S., in yard of farmhouse of R. E. Allen, in root on S. side of 30-in. maple tree; copper nail and washer	809.89
Plevna, 1 mi. N. and 1 mi. W. from, near center sec. 22, T. 60 N., R. 11 W., 50 ft. N. of State Highway 15, 2 ft. E. of fence, in concrete post; standard tablet (set to replace "Prim Trav Sta No 4")	802.147
Plevna, 1 mi. N. and 0.5 mi. W. from, quarter cor. between secs. 22 and 23, T. 60 N., R. 11 W., 15 ft. S. of State Highway 15, 180 ft. W. of junction of rd. N., in root on S. side of 14-in. wild-cherry tree; copper nail and washer	798.62
Plevna, 1 mi. N. of, center sec. 23, 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 24-in. locust tree; copper nail and washer	786.55
Plevna, 1 mi. N. and 0.5 mi. E. from, quarter cor. between secs. 23 and 24, T. 60 N., R. 11 W., 35 ft. S. and 15 ft. W. from junction of rd. S., in root on E. side of 22-in. elm tree; copper nail and washer	708.11
T. 60 N., R. 11 W., in W 1/2 sec. 24, 20 ft. N. of highway, 200 ft. W. of rd. S., 60 ft. SW. of large barn, in root on S. side of 30-in. black-oak tree; crossed nails	702.57
T. 60 N., R. 11 W., near center sec. 24, 21 ft. W. of SW. corner of steel bridge over Little Fabius River, 25 ft. S. of highway, 100 ft. W. of rd. N., in fence corner, in root on E. side of 40-in. maple tree; copper nail and washer	694.84
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	769.30
T. 60 N., R. 10 W., quarter cor. between secs. 19 and 20, 35 ft. N. and 24 ft. E. from junction of rd. N., 3 ft. NE. of corner fence post, in concrete post; standard tablet stamped "3 B 1936"	748.156
T. 60 N., R. 10 W., center sec. 20, 40 ft. N. and 35 ft. E. from junction of rd. S., 6 ft. N. of fence line, in root on S. side of 25-in. sycamore tree; copper nail and washer	736.39
T. 60 N., R. 10 W., quarter cor. between secs. 20 and 21, 355 ft. W. of junction of rd. N., 20 ft. N. of highway, in root on N. side of 16-in. elm tree; copper nail and washer	743.69
T. 60 N., R. 10 W., in W 1/2 sec. 21, 300 ft. E. of junction of rd. S., 60 ft. N. of NW. corner of farmhouse of E. F. Janey, 45 ft. S. of highway, in root on W. side of 24-in. maple tree; nail and washer	757.40
T. 60 N., R. 10 W., in SE 1/4 sec. 21, 50 ft. S. and 45 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	749.04
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	740.98

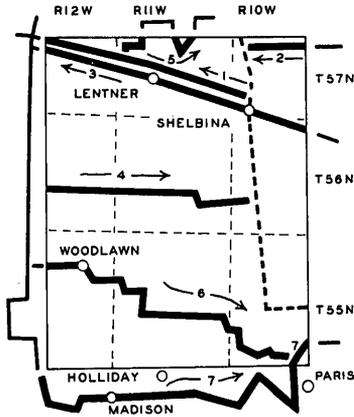
(Continued in Newark quadrangle; see line 6.)

8. IN SEC. 28, T. 60 N., R. 12 W. (by F. Y. Brown in 1936)	
T. 60 N., R. 12 W., in S 1/2 sec. 28, 14 ft. N. of rd., on center of N. head wall of concrete culvert; chiseled square	818.41
T. 60 N., R. 12 W., in S 1/2 sec. 28, 765 ft. W. of Pleasant View School, 20 ft. N. of T-rd. S.; iron post stamped "1905 849 Adj"	848.836

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.

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

Monroe and Shelby Counties



1. FROM SHELBYNA WEST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO MACON QUADRANGLE (by D. V. Vandiver in 1905)

	<u>Feet</u>
Shelbyna, opposite W. end of sta. across from Waverly Hotel; iron post stamped "1905 780 Adj"	779.923
Lentner, 1.2 mi. E. of, 4.5 mi. W. of Shelbyna, 70 ft. S. of track, in E. corner of field on property of Mr. Coopwriter; iron post stamped "1905 789 Adj"	789.404
T. 57 N., R. 11 W., on N.-S. line through center sec. 19, 30 ft. S. and 13 ft. E. from U.S. Highway 36 at fence N.; iron post stamped "791 Q"	791.717
Clarence, 2.8 mi. E. of, in sec. 23, T. 57 N., R. 12 W., 110 ft. S. of track, 2 ft. S. of rd.; iron post stamped "1905 790 Adj"	790.299

(Continued in Macon quadrangle; see line 2.)

2. FROM HUNNEWELL 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 1934)

(Continued from Hunnewell quadrangle; see line 3.)

Shelbyna, 4 mi. N. and 2 mi. E. from, E. sixteenth cor. between secs. 10 and 15, T. 57 N., R. 10 W., opposite T-rd. E., in concrete post; standard tablet stamped "84 C W A 1934"	713.824
Reference mark, 6 ft. NE. of tablet, in root of twin hickory tree; copper nail and washer	714.73
T. 57 N., R. 10 W., near quarter cor. between secs. 15 and 16, at NE. corner of T-rd., on concrete base of fence post; chiseled square	729.33
T. 57 N., R. 10 W., 500 ft. W. of cor. secs. 15, 16, 21, and 22, N. of rd., in root of 18-in. elm tree; copper nail and washer	733.23

3. FROM HUNNEWELL QUADRANGLE NORTHWEST ALONG U.S. HIGHWAY 36 INTO MACON QUADRANGLE (by Cornish Beck in 1936)

(Continued from Hunnewell quadrangle; see line 4.)

Shelbyna, at E. limits of, 110 ft. S. and 380 ft. E. from junction of rd. E., 15 ft. S. of highway at curve, on head wall of culvert; chiseled square	745.35
Shelbyna triangulation sta.; U.S.C. & G.S. standard disk stamped "Shelbyna 1934"	778.945
Shelbyna, at W. limits of, 40 ft. N. and 8 ft. W. from crossroad, 12 ft. N. of rd. E., on head wall of culvert; chiseled square	760.50
T. 57 N., Rs. 10 and 11 W., on line between secs. 31 and 36, 20 ft. S. and 175 ft. W. from junction of rd. N., on NW. corner of base of R.R. semaphore; chiseled square	781.62
Junction of rd. N., 27 ft. N. and 12 ft. E. from, on head wall of culvert; chiseled square	780.69
T. 57 N., R. 11 W., in SE 1/4 sec. 26, 40 ft. S. and 2 ft. E. from highway at fence N., in concrete post; standard tablet stamped "1538 E R A 1935"	784.578
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	786.34
T. 57 N., R. 11 W., on line between secs. 26 and 27, 20 ft. S. of highway, 345 ft. W. of fence N., on S. head wall of culvert; chiseled square	774.38
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	788.01

Lentner, on line between secs. 28 and 29, T. 57 N., R. 11 W., 40 ft. S. and 110 ft. W. from N.-S. crossroad, in concrete post; standard tablet stamped "1539 E R A 1935"	Feet 791.345
Lentner, about 1 mi. W. of, on SE. wing wall of bridge over Crooked Creek; chiseled square	760.47
T. 57 N., Rs. 11 and 12 W., on line between secs. 19 and 24, 30 ft. S. and 30 ft. W. from N.-S. crossroad; top of right-of-way post	800.08
T. 57 N., R. 12 W., on line between secs. 23 and 24, 35 ft. N. and 60 ft. E. from N.-S. crossroad, in concrete post; standard tablet stamped "1540 E R A 1935"	782.628
T. 57 N., R. 12 W., in NW 1/4 sec. 23, 30 ft. S. and 120 ft. E. from crossroad, on head wall of culvert; chiseled square	802.85
T. 57 N., R. 12 W., on line between secs. 15 and 16, 30 ft. S. and 65 ft. E. from highway at fence N., on head wall of culvert; chiseled square	807.75

(Continued in Macon quadrangle; see line 7.)

4. 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	804.66
T-rd. N., 9 ft. S. and 565 ft. W. from, on head wall of culvert; chiseled square	791.93
T. 56 N., R. 12 W., cor. secs. 22, 23, 26, and 27, 14 ft. S. and 15 ft. E. from T-rd. S., on head wall of culvert; chiseled square	772.22
T. 56 N., R. 12 W., cor. secs. 23, 24, 25, and 26, 25 ft. N. and 130 ft. E. from rd. at fence N., 2 ft. N. and 18 ft. E. from lone elm tree, in concrete post; standard tablet stamped "8 B 1936"	787.352
T. 56 N., R. 12 W., on line between secs. 24 and 25, near crossroads, on pump foundation; chiseled square	775.90
T. 56 N., R. 11 W., W. cor. secs. 19 and 30, 12 ft. S. and 12 ft. E. from T-rd. E. at crossroads, on Monroe-Shelby county line, on head wall of culvert; chiseled square	762.47
T. 56 N., R. 11 W., cor. secs. 19, 20, 29, and 30, 18 ft. N. and 15 ft. E. from crossroads, on E. edge of iron pipe culvert; painted square	780.64
T. 56 N., R. 11 W., on line between secs. 20 and 29, 25 ft. N. of T-rd. S., in S. side of telephone pole; nail	785.51
T. 56 N., R. 11 W., cor. secs. 20, 21, 28, and 29, 30 ft. N. and 13 ft. W. from T-rd. N., in concrete post; standard tablet stamped "9 B 1936"	775.421
T. 56 N., R. 11 W., cor. secs. 21, 22, 27, and 28, 10 ft. N. and 20 ft. W. from crossroads, on head wall of culvert; chiseled square	755.36
T. 56 N., R. 11 W., E. sixteenth cor. 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	754.83
T. 56 N., R. 11 W., in SW 1/4 sec. 26, 2 ft. S. and 7 ft. E. from NE. corner of church, 35 ft. S. of rd., in concrete post; standard tablet stamped "10 B 1936"	747.216
T-rd. S., 16 ft. S. and 30 ft. E. from, in corner fence post; nail	770.01
T-rd. N., 18 ft. N. and 18 ft. E. from, in corner fence post; nail	767.42
T. 56 N., R. 11 W., near W. sixteenth cor. between secs. 25 and 36, 12 ft. N. and 50 ft. W. from rd. corner N.-W., in SW. side of 14-in. elm tree; copper nail and washer	770.99
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	696.46
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	698.21
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"	699.438
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	694.26
State Highway 15 at crossroad, 395 ft. S. and 30 ft. W. from, on base of concrete gatepost; chiseled square	727.80
U.S.C. & G.S. standard disk stamped "S 133 1935"	690.566

5. 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	771.80
(For balance in Shelbyville quadrangle, see line 4.)	
T. 57 N., R. 11 W., on line between secs. 9 and 16, 10 ft. N. and 30 ft. E. from T-rd. N., on head wall of culvert; chiseled square	767.07
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	780.34

(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 8.)

	<u>Feet</u>
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	796.14
Woodlawn, 25 ft. S. and 100 ft. W. from junction of rd. N., on concrete floor of porch; chiseled square	785.50
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	787.98
Woodlawn, 0.5 mi. E., thence 1 mi. S. from, 77 ft. N. 39° E. of NE. corner of Oak Grove Church; iron post stamped "Prim Trav Sta No 11 1905"	785.957
T. 55 N., R. 12 W., on line between secs. 12 and 13, 20 ft. S. and 245 ft. E. from T-rd. S., in root on NE. side of 26-in. elm tree; copper nail and washer	732.54
T-rd. N., 15 ft. N. and 135 ft. W. from, in N. side of 7-in. elm tree; nail	777.40
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	768.44
T. 55 N., R. 11 W., near cor. secs. 8, 9, 16, and 17 (? 0.2 mi. N. of), 18 ft. N. and 25 ft. E. from T-rd. S., in concrete post; standard tablet stamped "15 B 1936"	777.287
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	728.45
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	775.25
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 W. J. Williams; iron post stamped "Prim Trav Sta No 10 1905"	708.639
T-rd. S., 24 ft. S. and 10 ft. E. from, in root on N. side of 3/4-in. elm tree; nail	745.01
T. 55 N., R. 11 W., near center sec. 23, 23 ft. S. and 15 ft. W. from T-rd. S., in root on N. side of 17-in. elm tree; copper nail and washer	776.56
T. 55 N., R. 11 W., in SW 1/4 sec. 24, 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	771.65
T. 55 N., R. 11 W., near E. sixteenth cor. between secs. 24 and 25, 23 ft. N. and 22 ft. E. from T-rd. N., in concrete post; standard tablet stamped "14 B 1936"	763.525
T. 55 N., R. 10 W., cor. secs. 19, 20, 29, and 30, 15 ft. N. and 15 ft. W. from T-rd. W., in S. side of corner fence post; nails	756.89
T. 55 N., R. 10 W., near center sec. 29, in yard of Smiser School, on carriage block; chiseled square	761.16
T. 55 N., R. 10 W., near E. sixteenth cor. between secs. 29 and 32, 13 ft. N. and 100 ft. E. from T-rd. N., on head wall of culvert; chiseled square	730.96
T. 55 N., R. 10 W., near cor. secs. 27, 28, 33, and 34, 24 ft. N. and 21 ft. W. from T-rd. W.; iron post stamped "Prim Trav Sta No 9 1905"	763.883
Noel triangulation sta.; U.S.C. & G.S. standard disk stamped "Noel 1934"	761.560
T-rd. N., 25 ft. S. and 8 ft. W. from, in root on NE. side of 24-in. oak tree; nail	741.26
T. 55 N., R. 10 W., near center sec. 34, 10 ft. S. and 150 ft. W. from T-rd. S., on head wall of culvert; chiseled square	729.40

7. FROM MOPERLY QUADRANGLE EAST ALONG U.S. HIGHWAY 24 TO PARIS (by Cornish Beck in 1936) *
(Continued from Macon quadrangle; see line 7.)

T. 54 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	805.44
T. 54 N., R. 12 W., near quarter cor. between secs. 15 and 16, 50 ft. N. and 35 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "464 C W A 1934"	791.368
T. 54 N., R. 12 W., near center sec. 15, 25 ft. S. and 18 ft. W. from junction of rd. S., on head wall of culvert; chiseled square	776.72
T. 54 N., R. 12 W., near quarter cor. between secs. 14 and 15, 25 ft. S. and 15 ft. E. from crossroad, on head wall of culvert; chiseled square	807.71
Madison, 0.6 mi. W. of, 22 ft. N. and 60 ft. E. from junction of rd. E., on head wall of culvert; chiseled square	777.05
U.S.C. & G.S. standard disk stamped "V 123 1935"	796.088
Madison, at E. limits of, 25 ft. S. and 20 ft. W. from junction of County Route T, on end of curb; chiseled square	786.98
Madison, 1 mi. E. of, 48 ft. S. and 44 ft. W. from junction of rd. S., 3 ft. N. and 30 ft. W. from corner fence post, in concrete post; standard tablet stamped "11112 C W A 1934"	803.462
T. 54 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	778.36
T. 54 N., R. 11 W., on line between secs. 7 and 8, 25 ft. S. and 15 ft. E. from junction of rd. S., on head wall of culvert; chiseled square	795.48
Holliday triangulation sta.; U.S.C. & G.S. standard disk stamped "Holliday 1934"	793.981
U.S.C. & G.S. standard reference disk stamped "Holliday Azi 1934"	789.523
U.S.C. & G.S. standard disk stamped "X 123 1935"	793.607
T. 54 N., R. 11 W., in sec. 9, 25 ft. S. and 75 ft. E. from junction of rd. S., on head wall of culvert; chiseled square	783.02
Holliday, 0.9 mi. S. of, 11 ft. N. and 90 ft. E. from junction of County Route A, on NW. wing wall of bridge; chiseled square	737.91

* Published also as line 5 of the Madison quadrangle (see Bull. 898-G, pp. 873-874).

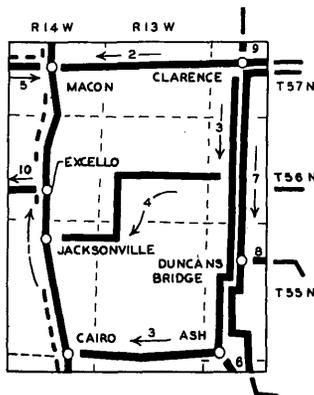
	Feet
Holliday, 0.9 mi. S. and about 0.2 mi. E. from, 20 ft. S. and 16 ft. E. from junction of rd. S., on head wall of culvert; chiseled square	756.00
U.S.C. & G.S. standard disk stamped "Y 123 1935"	787.866
Holliday, 1 mi. S. and 1.5 mi. E. from, in NE 1/4 sec. 11, T. 54 N., R. 11 W., 4/4 ft. S. and 56 ft. W. from crossroad, 14 3/4 ft. NE. of NE. corner of farmhouse of E. H. Williams, 2 ft. inside fence, in concrete post; standard tablet stamped "1113 C W A 1934"	772.232
U.S.C. & G.S. standard disk stamped "Z 123 1935"	784.241
T. 54 N., R. 11 W., 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	768.95
T. 54 N., R. 10 W., near E. sixteenth cor. between secs. 7 and 18, 24 ft. S. and 16 ft. E. from crossroad, on head wall of culvert; chiseled square	729.39
U.S.C. & G.S. standard disk stamped "A 124 1935"	760.369
T. 54 N., R. 10 W., near quarter cor. between secs. 8 and 17, 235 ft. E. of junction of rd. W., 55 ft. S. and 24 ft. E. from junction of private rd. S., 131 ft. N. and 32 ft. W. from NW. corner of farmhouse of R. L. Clem, in concrete post; standard tablet stamped "1414 C W A 1934"	770.350
T. 54 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	768.05
U.S.C. & G.S. standard disk stamped "B 124 1935"	761.852
T. 54 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	766.96

For an additional level line along State Highway 15, refer to United States Coast and Geodetic Survey second-order line, Laddonla 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 4 ft. above concrete sidewalk; aluminum tablet stamped "1905 864 Adj"	863.628
Jacksonville, on N. side of Randolph Street, 300 ft. W. of tracks, 6 ft. W. of SE. corner of bank; aluminum tablet stamped "1905 868 Adj"	867.156
Excello, 360 ft. SW. of sta., 200 ft. W. of tracks, in wall of Powell's drug store; aluminum tablet stamped "1905 871 Adj"	870.204
Macon, 3.5 mi. S. of, in small cemetery on Grant farm, 600 ft. E. of track, 150 ft. E. of rd., in base of Grant's monument; aluminum tablet stamped "1905 849 Adj"	848.510
Macon, 20 ft. W. of S. entrance to courthouse, in limestone foundation; aluminum tablet stamped "1905 875 Adj"	873.949
Macon, 100 ft. SW. of S. entrance to courthouse, in granite post; standard tablet stamped "1905 873 Adj"	872.558

(Continued in Atlanta quadrangle; see line 1.)

2. FROM SHELBYNA QUADRANGLE NEAR CLARENCE WEST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO MACON (by D. V. Vandiver in 1905)

(Continued from Shelbina quadrangle; see line 1.)

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
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	<u>Feet</u>
Anabel, 70 ft. S. of E. end of Chicago, Burlington & Quincy R.R. sta.,	837.941
40 ft. N. of store of E. I. Hogen; iron post stamped "1905 638 Adj"	836.734
Anabel, 3 mi. W. of, NW. of rd. crossing; iron post stamped "1905 837 Adj"	
Macon, 3 mi. E. of, 0.2 mi. E. of rd. crossing, on NE. corner of stone	
abutment of bridge 67.67 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, 4 ft. N. and 3 ft. W. from	
telephone pole; 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, 48 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
Enterprise, 3 mi. S. of, on Monroe-Shelby county line, NW. of T-rd. N.;	
iron post stamped "1905 808 Adj"	808.070
Duncans Bridge, in SE. corner of yard of Ferd Wedd (? F. Wedding); iron	
post stamped "Prim Trav Sta No 21 1905 717 Adj"	716.987
T. 55 N., R. 12 W., E. sixteenth cor. between secs. 19 and 30, 120 ft. S.	
and 15 ft. W. from T-rd. E., 23 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, 5 ft. SW. of 36-in. oak tree; iron post	
stamped "1905 812 Adj"	810.787
Cairo, 5.2 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. E. of 12-in. persimmon tree, 12 ft. SE. of corner fence post;	
iron post stamped "1905 821 Adj"	820.170
Cairo, 3 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 C. E. 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. 13, 14, 23, and 24, T. 56 N.,	
R. 13 W., in SW. corner of yard of W. N. Trussell; iron post stamped	
"1905 781 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 "853"	832.873
Jacksonville, 3.8 mi. E. and 0.2 mi. N. from, in SW 1/4 sec. 5, T. 55 N.,	
R. 13 W., NE. of T-rd. E., in SW. corner of yard of D. R. Haliburton;	
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 0.3 mi. W. of, near E. sixteenth cor. between secs. 17 and	
20, T. 57 N., R. 14 W., 35 ft. N. and 10 ft. E. 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	830.34
Macon, at Wabash Ry. bridge 1940 over R.R. tracks, at W. side of N.	
abutment, on top step of W. end of sixth layer 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 MOBERLY 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 48-in. locust tree; copper nail and	
washer	811.62

7. FROM SHELBYNA QUADRANGLE NEAR CLARENCE SOUTH BY WAY OF
ENTERPRISE, DUNCANS BRIDGE, AND ASH, INTO MOBERLY QUADRANGLE
AT SEC. 6, T. 54 N., R. 12 W. (by Cornish Beck in 1936)
(Continued from Shelbyna quadrangle; see line 3.)

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 cul-	
vert; 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 E. edge of iron pipe cul-	
vert; painted square	806.79
T. 56 N., R. 12 W., on line between secs. 8 and 9, 12 ft. N. and 15 ft.	
E. from T-rd. E., on head wall of culvert; chiseled square	773.49

	<u>Feet</u>
Clarence, 5.5 mi. S. of, cor. secs. 8, 9, 16, and 17, T. 56 N., R. 12 W., 15 ft. S. and 18 ft. W. from T-rd. W., on head wall of culvert; chiseled square	776.00
Enterprise, 1 mi. S. of, cor. secs. 20, 21, 28, 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	810.56
Enterprise, 2 mi. S. of, cor. secs. 28, 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	792.17
Enterprise, 3 mi. S. of, S. cor. secs. 32 and 33, T. 56 N., R. 12 W., 24 ft. N. and 24 ft. W. from E.-W. rd. and abandoned rd. N.; iron pipe stamped "12 B 1936"	808.117
Duncans Bridge, about 1.3 mi. N. of, in E 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 22-in. oak tree; copper nail and washer	764.21
Duncans Bridge, about 0.4 mi. N. of, 12 ft. S. and 130 ft. E. from T-rd. E., on head wall of culvert; chiseled square	714.01
Duncans Bridge, on SE. wing wall of bridge over Salt River; chiseled square	705.39
Duncans Bridge, 0.5 mi. W. of, 75 ft. N. of T-rd. S., in E. side of 22-in. wild-cherry tree; nail	726.95
T. 55 N., R. 12 W., in NW 1/4 sec. 17, on NW. wing wall of bridge; chiseled square	705.19
T. 55 N., R. 12 W., in NW 1/4 sec. 17, 36 ft. S. and 25 ft. W. from T-rd. E., in root on S. side of 24-in. post-oak tree; copper nail and washer	729.71
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	724.96
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 SE. side of 26-in. white-oak tree; copper nail and washer	762.44
T. 55 N., R. 12 W., near E. sixteenth cor. sec. 19; 27 ft. S. of T-rd. N.; iron pipe stamped "13 B 1936"	806.685
T. 55 N., R. 12 W., in E 1/2 sec. 30, on SE. handrail support of bridge over Mud Creek; chiseled square	715.10
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	778.92

(Continued in Macon quadrangle; see line 7.)

8. FROM DUNCANS BRIDGE EAST INTO SHELBYNA 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	755.46
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(Continued in Shelbina quadrangle; see line 6.)

9. FROM CLARENCE NORTH INTO ATLANTA QUADRANGLE (by Cornish Beck in 1936)

Clarence, at N. limits of, 50 ft. E. of intersection of U.S. Highway 36 and County Route C; top of right-of-way post	818.04
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(Continued in Atlanta quadrangle; see line 5.)

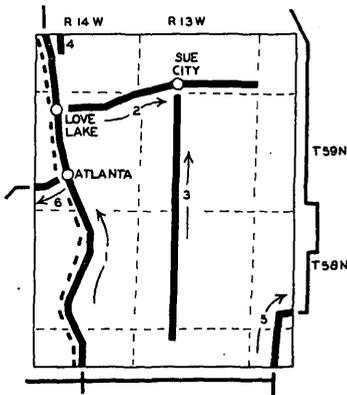
10. FROM EXCELLO WEST INTO COLLEGE MOUND QUADRANGLE (by J. J. Crane in 1937)

U.S.C. & G.S. standard disk stamped "A 122 1935"	867.344
Excello, 0.9 mi. W. of, along Ardmore-Excello rd., 100 ft. S. and 300 ft. E. from junction of dim rd. S., in root on E. side of 20-in. black-oak tree; crossed nails	807.91

(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, Hurland to St. Charles and Leclade to Macon.

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)
(Continued from Macon quadrangle; see line 1.)

	<u>Feet</u>
Macon, 3.5 mi. N. of, NW. of rd. crossing; iron post stamped "1905 887 Adj"	886.543
Axtell, 200 ft. W. of track, 200 ft. N. of rd., in SW. corner of foundation of dwelling of A. L. Epperson; aluminum tablet stamped "1905 895 Adj"	893.996
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"	899.978
Atlanta, 12 ft. S. of Atlanta State Bank, in NW. cornerstone of foundation of Attleberry brick building; aluminum tablet stamped "1905 902 Adj"	901.612
Love Lake, 200 ft. W. of sta., in SE. corner of foundation of post office; aluminum tablet stamped "1905 915 Adj"	913.696
T. 60 N., R. 14 W., cor. secs. 19, 20, 29, and 30, at rd. crossing, 2 ft. inside of field; iron post stamped "1905 937 Adj"	936.379

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. 14 W.; iron post stamped "1905 885 Adj"	883.911
Sue City, in E. side of SE. corner of foundation stone of Baptist Church; aluminum tablet stamped "1905 871 Adj"	870.352
Sue City, 3.5 mi. E. of, W. 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 768 Adj"	768.265

3. FROM SEC. 4, T. 57 N., R. 13 W., NORTH TO SUE CITY
(by D. V. Vandiver in 1905)

T. 57 N., R. 13 W., N. 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"	841.710
T. 58 N., R. 13 W., S. sixteenth cor. sec. 16, W. of T-rd. E., 50 ft. SE. of SE. corner of dwelling, N. of rd., 4 ft. from yard fence; iron post stamped "1905 849 Adj"	848.664
T. 59 N., R. 13 W., S. quarter cor. sec. 33, 25 ft. N. and 27 ft. E. from T-rd. N., 25 ft. N. and 14 ft. W. from T-rd. S.; iron post stamped "T 27 W 1936 1905 836 Adj"	836.037
T. 59 N., R. 13 W., cor. secs. 16, 17, 20, and 21, 7 ft. S. and 7 ft. W. from SW. corner of crossroads, 3 ft. NE. of corner post; iron post stamped "1905 825 Adj"	825.110

4. FROM La PLATA QUADRANGLE AT SEC. 20, 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., quarter cor. 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 "789 C W A 1934"	921.935
U.S.C. & G.S. standard disk stamped "K 121 1935"	937.511

5. FROM MACON QUADRANGLE NORTH ALONG COUNTY ROUTE C INTO SHELEBYVILLE QUADRANGLE (by Cornish Beck in 1936)
(Continued from Macon quadrangle; see line 9.)

	<u>Feet</u>
T. 57 N., R. 12 W., cor. secs. 4, 5, 8, and 9, 14 ft. N. and 15 ft. W. from crossroad, on head wall of culvert; chiseled square	808.78
T. 57 N., R. 12 W., about 200 ft. W. of N. cor. secs. 4 and 5, 18 ft. S. and 30 ft. E. from junction of rd. E., in corner fence post; nail	827.19

(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"	915.477
U.S.C. & G.S. standard disk stamped "P 121 1935"	906.530
T. 59 N., R. 14 W., in SW 1/4 sec. 20, on center of SW. concrete wing wall of steel bridge over Long Branch; chiseled square	834.57
T. 59 N., R. 14 W., cor. secs. 19, 20, 29, and 30, 30 ft. N. and 27 ft. W. from T-rd. S., in root on W. side of 14-in. elm tree; copper nail and washer	893.57

(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)

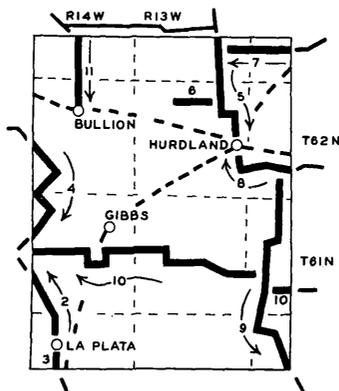
Love Lake, 200 ft. W. of sta., in SE. corner of foundation of post office; aluminum tablet stamped "1905 915 Adj"	913.696
U.S.C. & G.S. standard disk stamped "M 121 1935"	900.822

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"	901.612
U.S.C. & G.S. standard disk stamped "P 121 1935"	906.530

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, 4.5 mi. S. and 1.5 mi. 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 "855 A"	855.420
T. 61 N., R. 13 W., in SW. cor. sec. 11, in corner of dooryard of Thomas Powers; iron post stamped "874 A"	874.529

	<u>Feet</u>
T. 62 N., R. 14 W., in NE 1/4 sec. 22, 420 ft. N. of Quincy, Omaha & Kansas City R.R., at T-rd. W., in corner of rd. adjacent to property of G. M. Leo; iron post stamped "921 A"	921.550
Clay, about 2 1/2 ft. E. of post office, near large oak tree; iron post stamped "931 A"	930.529
Gibbs, in NW. face of Gibbs Savings Bank; aluminum tablet stamped "910 A"	910.409
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. corner of highway bridge 305-A over R.R., on concrete pillar foundation; chiseled square	875.20
Brashear, 1.5 mi. NW. of, in NW 1/4 sec. 30, T. 62 N., R. 13 W., at NW. corner of bridge 59.3, in top of W. end of guardrail; bolt head	823.06
T. 62 N., R. 14 W., 200 ft. S. of center of E 1/2 of NE 1/4 sec. 15, at NW. corner of bridge over Lost Creek, in SW. corner of N. approach of main span; spike	840.20
T. 62 N., R. 14 W., in NE. cor. sec. 15, SW. of crossroads, in root on N. side of 2 1/2-in. oak tree; spike	871.40
Clay, 2 mi. NW. of, in NW 1/4 sec. 28, T. 63 N., R. 14 W., on W. bank of North Fork of Salt River, in oak tree; copper nail	850.85

2. FROM La PLATA NORTHWEST ALONG U.S. HIGHWAY 63, INTO KIRKSVILLE QUADRANGLE (by R. W. Mattox in 1935)

U.S.C. & G.S. standard disk stamped "J 121 1935"	940.008
U.S.C. & G.S. standard disk stamped "La Plata 1934"	941.466
U.S.C. & G.S. standard disk stamped "H 121 1935"	918.813
La Plata, 1.1 mi. N. of, in SW 1/4 sec. 32, T. 61 N., R. 14 W., 35 ft. W. of highway, in concrete post; standard tablet stamped "790 C W A 1934"	941.519
Highway in line with whistle board of Wabash Ry., 30 ft. E. of, in fence line, on base of corner post; chiseled square	942.01
T. 61 N., R. 14 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 30-in. maple 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.)

3. FROM La PLATA SOUTH ALONG U.S. HIGHWAY 63 INTO ATLANTA QUADRANGLE (by R. W. Mattox in 1935)

T. 60 N., R. 14 W., on line between secs. 8 and 17, NW. of crossroad; top of fence post	929.64
T. 60 N., R. 14 W., near center sec. 17, on top of W. head wall of culvert under highway; chiseled square	906.56

(Continued in Atlanta quadrangle; see line 4.)

4. FROM KIRKSVILLE QUADRANGLE AT SEC. 18, T. 62 N., R. 14 W., SOUTH ALONG WEST BORDER OF QUADRANGLE INTO KIRKSVILLE QUADRANGLE AT SEC. 5, T. 61 N., R. 14 W. (by R. W. Mattox in 1935)

(Continued from Kirksville quadrangle; see line 1.)

T. 62 N., R. 14 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
U.S.C. & G.S. standard disk stamped "H 16 1933"	950.658
Top of ridge, in root on E. side of 2 1/2-in. elm tree; (mark not described)	956.58
T. 62 N., R. 14 W., in NW. cor. sec. 29, at T-rd. S., in root on N. side of 18-in. maple tree; copper nail and washer	963.32
T. 62 N., R. 14 W., in S 1/2 sec. 29, E. of crossroads, on N. end of iron pipe culvert; (mark not described)	942.74
T. 62 N., R. 14 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. 14 W., in SW 1/4 sec. 31, on top of ridge, 100 ft. W. of dwelling, 40 ft. W. of rd., in root on E. side of twin 2 1/2-in. oak tree; copper nail and washer	938.14
T. 61 N., R. 14 W., quarter cor. between secs. 5 and 6, NW. of T-rd. N., in fence line, in root on S. side of 18-in. oak tree; copper nail and washer	913.23

(Continued in Kirksville quadrangle; see line 3.)

5. FROM DOWNING QUADRANGLE AT SEC. 26, T. 63 N., R. 13 W., SOUTH TO HURLAND (by G. R. Hamlin in 1936)

(Continued from Downing quadrangle; see line 4.)

T. 63 N., R. 13 W., in N 1/2 sec. 26, 6 mi. N. and 1 mi. W. from Hurland, 60 ft. S. and 33 ft. E. from State Highway 11 at rd. S., in concrete post; standard tablet stamped "T 133 C 1936"	849.535
T. 63 N., R. 13 W., N. sixteenth cor. between secs. 25 and 26, 27 ft. N. and 20 ft. E. from State Highway 11 at N.-S. crossroad, in root on W. side of 12-in. black-oak tree; copper nail and washer	851.52
T. 63 N., R. 13 W., in S 1/2 sec. 35, 20 ft. N. and 12 ft. W. from T-rd. S., in root on S. side of triple black-oak tree; copper nail and washer	851.44
T. 62 N., R. 13 W., in NE 1/4 sec. 2, 20 ft. S. and 40 ft. W. from T-rd. N., in root on W. side of 1 1/2-in. white-oak tree; crossed nails	789.93
T-rd., SW. of, on center of W. head wall of concrete culvert; chiseled square	797.31
T. 62 N., R. 13 W., in N 1/2 sec. 2, in SE. corner of steel bridge; crossed nails	783.94

	<u>Feet</u>
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	838.17
Hurdland, about 3 mi. N. of, in NW 1/4 sec. 12, T. 62 N., R. 13 W., 75 ft. NW. of dwelling of Homer Benstine, 20 ft. S. of rd., in concrete post; standard tablet	880.018
T. 62 N., R. 13 W., S. sixteenth cor. sec. 1, 20 ft. S. and 105 ft. W. from T-rd. S., in root on N. side of 24-in. maple tree; copper nail and washer	872.46
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	821.19
U.S.C. & G.S. standard disk stamped "L 84 1934"	804.779
T. 62 N., R. 13 W., approximate E. sixteenth cor. between secs. 13 and 24, 12 ft. S. and 115 ft. E. from T-rd. S., on center of S. head wall of concrete culvert; chiseled square	818.58
T. 62 N., R. 13 W., near center sec. 24, 80 ft. S. and 20 ft. E. from rd. corner E.-S., in top of 6-in. ash stump; crossed nails	855.91
U.S.C. & G.S. standard disk stamped "C 16 1933"	888.581
6. LINE TO DETERMINE ELEVATION OF HURLAND TRIANGULATION STATION 3 MILES NORTHWEST OF HURLAND (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	838.17
Hurdland triangulation sta.; U.S.C. & G.S. standard disk stamped "Hurdland 1934"	902.791
U.S.C. & G.S. standard reference disk stamped "Hurdland No 2 1934"	900.490
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. N., in concrete post; standard tablet	855.010
T. 63 N., R. 12 W., near N. sixteenth cor. sec. 30, 18 ft. S. and 140 ft. E. from junction of rd. S., on S. end of iron pipe culvert; painted square	867.62
T. 63 N., Rs. 12 and 13 W., near N. sixteenth cor. between secs. 25 and 30, 40 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	884.48
8. FROM EDINA QUADRANGLE WEST ALONG STATE HIGHWAY 6 TO HURLAND (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. S., 30 ft. N. of rd. E., in concrete post; standard tablet stamped "1425 C W A 1934"	856.576
Reference mark, 18 ft. S. and 90 ft. W. from tablet, on center of E. head wall of concrete culvert; chiseled square	849.12
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	828.41
Hurdland, about 2.1 mi. E. of, 140 ft. N. and 20 ft. E. from NE. corner of Rock Creek School, in root on N. side of 14-in. hickory tree; copper nail and washer	827.99
Double concrete culvert, on W. end of S. head wall; chiseled square	822.15
Hurdland, 1.3 mi. E. of, 20 ft. N. and 25 ft. W. from junction of rd. S., on center of N. head wall of concrete culvert; chiseled square	841.51
Hurdland, 0.6 mi. E. of, 25 ft. S. and 12 ft. E. from junction of rd. S. to cemetery, on center of W. head wall of concrete culvert; chiseled square	874.70
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	883.26
9. FROM SEC. 32, T. 62 N., R. 12 W., SOUTH INTO EDINA QUADRANGLE AT SEC. 17, T. 60 N., R. 12 W. (by F. Y. Brown in 1937)	
T. 62 N., R. 12 W., in N 1/2 sec. 32, 150 ft. S. and 25 ft. W. from T-rd. E., in hedge row, in root on NE. side of 20-in. cherry tree; copper nail and washer	854.69
Tps. 61 and 62 N., R. 12 W., near quarter cor. between secs. 5 and 32, 1.5 mi. S. and 2 mi. E. from Hurdland, 110 ft. E. of dwelling, 25 ft. W. of rd., in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "T T 3 C 1937"	861.479
T. 61 N., R. 12 W., in S 1/2 sec. 5, 0.3 mi. S. of crossroads, 20 ft. W. of rd., 3 ft. W. of fence line, in root on E. side of 48-in. elm tree; copper nail and washer	854.23
T. 61 N., R. 12 W., near center sec. 8, 140 ft. N. and 95 ft. E. from crossroads, 10 ft. N. and 40 ft. W. from NW. corner of Vanhorn School, in root on S. side of 30-in. elm tree; copper nail and washer	845.49
Rd. corner from N.-W., 85 ft. S. of, in N.-S. fence line, in root on W. side of 12-in. elm tree; crossed nails	856.96
T. 61 N., R. 12 W., N. sixteenth cor. between secs. 17 and 18, 380 ft. S. of rd. corner from E.-S., 25 ft. S. and 10 ft. W. from SW. corner of dwelling of Frank H. Mills, 45 ft. E. of rd., in root on S. side of 10-in. elm tree; copper nail and washer	816.76

	<u>Feet</u>
T. 61 N., R. 12 W.; on line between secs. 17 and 18, 180 ft. S. of T-rd. W., opposite dwelling of J. M. Gibling, 20 ft. W. of rd., in root on E. side of 22-in. black-oak tree; crossed nails	844.60
T. 61 N., R. 12 W., on line between secs. 19 and 20, 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 24-in. maple tree; crossed nails	870.35
T. 61 N., R. 12 W., cor. secs. 19, 20, 29, and 30, 490 ft. S. and 65 ft. E. from, 110 ft. S. of dwelling of Wade Howerton, 65 ft. E. of rd., in root on W. side of 10-in. elm tree; copper nail and washer	867.38
T. 61 N., R. 12 W., cor. secs. 29, 30, 31, and 32, 255 ft. N. and 15 ft. E. from, 15 ft. E. of rd., in root on S. side of large elm tree; copper nail and washer	871.78
T. 61 N., R. 12 W., in E 1/2 sec. 31, 355 ft. S. and 15 ft. E. from T-rd. S., in fence line, in root on S. side of 16-in. elm tree; crossed nails	868.75
T. 61 N., R. 12 W., 750 ft. W. of approximate S. cor. secs. 31 and 32, 455 ft. E. of T-rd. N., 150 ft. E. of T-rd. S., 15 ft. N. of rd., in root on N. side of 12-in. cherry tree; copper nail and washer	865.42
Locust Hill, on line between secs. 6 and 7, T. 60 N., R. 12 W., 25 ft. S. of T-rd. N., 312 ft. E. of Dixon School, in concrete post; U.S.C. & G.S. and State Survey standard disk stamped "T 14 C 1937"	862.654
T. 60 N., R. 12 W., near W. sixteenth cor. between secs. 5 and 8, 45 ft. S. and 24 ft. W. from T-rd. S., in root on S. side of 18-in. elm tree; copper nail and washer	868.50
T. 60 N., R. 12 W., near center sec. 8, 100 ft. N. of hedge fence, 135 ft. E. of rd., in root on S. side of 40-in. maple tree; crossed nails	855.91
Crossroads, 15 ft. N. and 45 ft. E. from, at telephone pole; surface of ground	851.7
T. 60 N., R. 12 W., quarter cor. between secs. 8 and 17; 860 ft. S. and 40 ft. E. from crossroads, in corner of garden; in root on W. side of twin 14-in. maple tree; copper nail and washer	845.52
T. 60 N., R. 12 W., S. sixteenth cor. sec. 17, 25 ft. N. and 25 ft. W. from crossroads, in fence corner, in root on S. side of 22-in. hedge tree; copper nail and washer	857.65

(Continued in Shelbyville quadrangle; see line 6.)

10. FROM EDINA QUADRANGLE AT SEC. 28, T. 61 N., R. 12 W., WEST INTO KIRKSVILLE QUADRANGLE AT SEC. 20, T. 61 N., R. 14 W. (by F. Y. Brown in 1937)
(Continued from Edina quadrangle; see line 5.)

T. 61 N., R. 12 W., quarter cor. between secs. 29 and 32, 18 ft. S. and 55 ft. E. from crossroads, in concrete post; standard tablet stamped "14 B 1936"	863.023
T. 61 N., R. 12 W., on line between secs. 19 and 30, at gate to field, 25 ft. N. of rd.; near ground, in knot on fence post; crossed nails	863.05
T. 61 N., R. 13 W., quarter cor. between secs. 24 and 25, 45 ft. N. and 60 ft. E. from crossroads, in root on S. side of 16-in. elm tree; copper nail and washer	841.34
Nichols triangulation sta.; U.S.C. & G.S. standard disk stamped "Nichols 1934"	876.790
Reference mark 1; U.S.C. & G.S. standard reference disk stamped "Nichols No 1 1934"	877.346
Reference mark 2; U.S.C. & G.S. standard reference disk stamped "Nichols No 2 1934"	877.090
U.S.C. & G.S. standard disk stamped "Nichols Azimuth 1934"	864.506
T. 61 N., R. 13 W., on line between secs. 23 and 26, 400 ft. W. of small iron bridge, about 300 ft. E. of old dwelling, in root on S. side of 16-in. white-oak tree; crossed nails	821.87
T. 61 N., R. 13 W., near quarter cor. between secs. 23 and 26; at NW. corner of Mount Vernon School, 45 ft. N. and 200 ft. W. from T-rd. S., on concrete doorstep; chiseled square	866.41
T. 61 N., R. 13 W., cor. secs. 22, 23, 26, and 27; 100 ft. N. and 60 ft. E. from rd. corner N.-E., in root on N. side of 16-in. hickory tree; copper nail	815.58
T. 61 N., R. 13 W., near S. sixteenth cor. between secs. 22 and 23, 125 ft. N. and 60 ft. W. from T-rd. NW., on top of concrete doorstep of smokehouse; chiseled square	857.44
T. 61 N., R. 13 W., in W 1/2 sec. 22, 45 ft. W. of steel bridge over Salt River, 25 ft. S. of rd., in root on W. side of 12-in. black-oak tree; crossed nails	786.25
T. 61 N., R. 13 W., approximate quarter cor. between secs. 21 and 22, 150 ft. W. of Adair-Knox county line, 100 ft. SE. of SE. corner of barn, 35 ft. S. of rd., on top of concrete well platform; chiseled square	817.47
T. 61 N., R. 13 W.; near W. sixteenth cor. sec. 21, 25 ft. N. and 10 ft. W. from T-rd. S., at gate to field, in root on N. side of 20-in. hedge tree; copper nail and washer	864.17
T. 61 N., R. 13 W., E. sixteenth cor. sec. 20, 23 ft. S. and 55 ft. W. from crossroads, in concrete post; standard tablet stamped "15 B 1936"	867.415
T. 61 N., R. 13 W., near E. sixteenth cor. between secs. 17 and 20, 18 ft. N. of T-rd. S., in root on S. side of 18-in. mulberry tree; copper nail and washer	863.56
T. 61 N., R. 13 W., cor. secs. 17, 18, 19, and 20, about 400 ft. S. of crossroads, 60 ft. W. of farmhouse, 40 ft. E. of rd., in root on N. side of 60-in. maple tree; copper nail and washer	876.24

	<u>Feet</u>
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	891.94
T. 61 N., Ra. 13 and 14 W., near cor. secs. 13, 18, 19, and 24, 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	891.85
T. 61 N., R. 14 W., near quarter cor. between secs. 13 and 24, 205 ft. W. of T-rd. S., 20 ft. N. of rd., on W. end of N. head wall of large concrete culvert; chiseled square	853.03
Cibbs, 1 mi. S. of, near cor. secs. 13, 14, 23, and 24, T. 61 N., R. 14 W., 20 ft. S. and 25 ft. E. from T-rd. E., 3/40 ft. S. of T-rd. W., in root on N. side of 14-in. elm tree; copper nail and washer	840.58
U.S.C. & G.S. standard disk stamped "E 121 1935"	873.361
T. 61 N., R. 14 W., near cor. secs. 14, 15, 22, and 23, 25 ft. S. and 40 ft. W. from T-rd. E., in root on E. side of 16-in. elm tree; copper nail and washer	872.09
T. 61 N., R. 14 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	833.11
T. 61 N., R. 14 W., near cor. secs. 22, 23, 26, and 27, 350 ft. N. of crossroads, 20 ft. W. of rd., on N. end of W. head wall of concrete culvert; chiseled square	883.12
T. 61 N., R. 14 W., on line between secs. 22 and 27, in fence line 50 ft. N. of rd., in root on S. side of 14-in. elm tree; crossed nails	904.56
U.S.C. & G.S. standard disk stamped "F 121 1935"	902.734
T. 61 N., R. 14 W., on line between secs. 21 and 22, 30 ft. S. of SW. corner of farmhouse of Martha Stribbling, 50 ft. E. of rd., in root on W. side of 30-in. maple tree; crossed nails	927.87
T. 61 N., R. 14 W., near cor. secs. 15, 16, 21, and 22, 40 ft. S. and 125 ft. W. from crossroads, in root on E. side of 8-in. elm tree; copper nail and washer	855.09
T. 61 N., R. 14 W., near cor. secs. 16, 17, 20, and 21, 540 ft. W. of crossroads, 15 ft. S. of rd., on E. end of S. head wall of concrete culvert; chiseled square	899.69
T. 61 N., R. 14 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; crossed nails	936.23
T. 61 N., R. 14 W., cor. secs. 17, 18, 19, and 20, 25 ft. N. and 120 ft. W. from crossroads, 35 ft. S. of SW. corner of farmhouse, in root on S. side of 16-in. maple tree; copper nail and washer	939.25

11. FROM DOWNING QUADRANGLE AT SEC. 20, T. 63 N., R. 14 W., SOUTH TO BULLION (by W. V. Kennedy in 1938)
(Continued from Downing quadrangle; see line 9.)

T. 63 N., R. 14 W., in N 1/2 sec. 29, 135 ft. N. of East Center Church, 25 ft. S. and 75 ft. E. from crossroads, in root on SW. side of 20-in. maple tree; copper nail and washer	875.84
T. 63 N., R. 14 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 1936"	922.815
T. 63 N., R. 14 W., quarter cor. between secs. 32 and 33, 550 ft. S. of rd. corner S.-W., 30 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	923.20
State Highway 11 at rd. E., 15 ft. N. and 30 ft. E. from, in root on W. side of 14-in. elm tree; crossed nails	901.49
T. 62 N., R. 14 W., in NW 1/4 sec. 4, on NE. corner of concrete curb of State Highway 11 bridge over Steer Creek; chiseled square	861.07
T. 62 N., R. 14 W., cor. secs. 4, 5, 8, and 9, 6 mi. E. of Kirksville, along State Highway 11, 35 ft. S. and 2 ft. W. from intersection of E.-W. rd. and tangent of highway N., in concrete post; standard tablet stamped "T T 129 C 1936"	929.897
T. 62 N., R. 14 W., W. sixteenth cor. between secs. 5 and 8, 45 ft. N. and 115 ft. W. from State Highway 11 at rd. S., 75 ft. SW. of Fairview School, in root on N. side of 18-in. elm tree; copper nail and washer	940.17
T. 62 N., R. 14 W., in SW 1/4 sec. 8, 500 ft. S. of T-rd. W., about 840 ft. N. of T-rd. N., on SE. wing wall of large concrete culvert; chiseled square	892.45
T. 62 N., R. 14 W., on line between secs. 8 and 17, 15 ft. S. and 190 ft. W. from T-rd. S., on S. end of iron pipe culvert; chiseled square	914.23

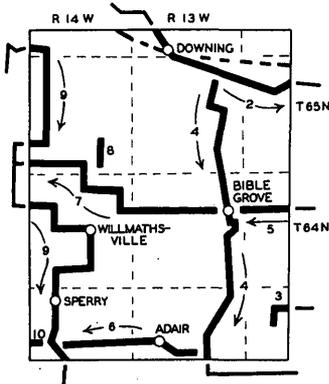
TIE BETWEEN UNITED STATES COAST AND GEODETIC SURVEY FIRST-ORDER LINE AND UNITED STATES GEOLOGICAL SURVEY THIRD-ORDER LINE IN SEC. 22, T. 62 N., R. 14 W. (by R. W. Mattox in 1935)

T. 62 N., R. 14 W., in NE 1/4 sec. 22, 420 ft. N. of Quincy, Omaha & Kansas City R.R., at T-rd. W., in corner of rd. adjacent to property of G. M. Leo; iron post stamped "921 A"	921.550
U.S.C. & G.S. standard disk stamped "G 16 1933"	893.003

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, Ill. to Milan, Mo.; and second-order lines; Hurdland, Mo. to Fort Madison, Iowa and Hurdland to St. Charles.

DOWNING QUADRANGLE
(Latitude 40°15'-40°30'; longitude 92°15'-92°30')

Adair, Knox, Schuyler, and Scotland Counties



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

	<u>Feet</u>
T. 63 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 "645 A" Adair, in W. face of brick foundation of Catholic parish house; aluminum tablet stamped "526 A" (reported destroyed)	*847.967 *928.732
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 "837 A" Hazelville, in SE 1/4 SW 1/4 sec. 35, T. 64 N., R. 13 W., at T-rd. N., on property of Fred Frazer; iron post stamped "870 A" Willmaths-ville, at SE. corner of Union Church; iron post stamped "939 A" T. 65 N., R. 13 W., in NE 1/4 sec. 3, in corner of orchard of S. E. Pile; iron post stamped "855 A" (moved in 1932; probably destroyed)	*839.522 873.418 939.283 *854.039
T. 65 N., R. 14 W., S. sixteenth cor. sec. 26, 30 ft. S. and 20 ft. W. from T-rd. E., in sandstone boulder; standard tablet stamped "829 A" Crawford, 0.8 mi. N. and 1 mi. E. from, on line between secs. 32 and 33, T. 66 N., R. 12 W., 33 ft. N. and 21 ft. W. from T-rd. N., on property of L. C. Lancaster; iron post stamped "790 A" Downing, opposite Chicago, Burlington & Quincy R.R. sta., near SE. corner of S. wall of foundation of brick store building, 2 ft. above sidewalk; standard tablet stamped "875 A"	*790.601 876.104
T. 63 N., R. 14 W., cor. secs. 16, 17, 20, and 21, 200 ft. W. of, on NE. corner of iron bridge over Salt River; bolt head	858.53
T. 63 N., R. 14 W., quarter cor. between secs. 17 and 20, NE. of cross-roads; iron post stamped "926"	925.304
T. 66 N., R. 14 W., in SW 1/4 sec. 29, at Tippecanoe School, 30 ft. N. and 500 ft. E. from T-rd. S., in root of elm tree; copper nail	954.95
T. 66 N., R. 14 W., near center sec. 28, NW. of T-rd. N., in root of 10-in. oak tree; copper nail	939.96

2. FROM PULASKI QUADRANGLE NEAR DOWNING SOUTHEAST ALONG STATE HIGHWAY 4 INTO MEMPHIS QUADRANGLE (by G. R. Hamlin in 1936)
(Continued from Pulaski quadrangle; see line 2.)

Downing, 1.1 mi. NW. of, 25 ft. S. and 35 ft. W. from highway at fences N. and S., in concrete post; standard tablet stamped "1502 C W A 1935"	880.067
Downing, at E. end of Chicago, Burlington & Quincy R.R. sta., on SW. corner of concrete well curb; chiseled square	874.18
U.S.C. & G.S. standard disk stamped "L 86 1935"	872.741
Downing, 1.4 mi. SE. of, 35 ft. S. and 30 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "1503 C W A 1935"	865.592
Downing, 2.3 mi. SE. of, 35 ft. N. and 15 ft. W. from junction of rd. NE., on N. end of W. concrete head wall of culvert; chiseled square	858.92
Memphis, 7.5 mi. W. of, 40 ft. S. and 25 ft. E. from junction of rd. N., in concrete post; U.S.C. & G.S. and State Survey standard disk	857.422
Downing triangulation sta.; U.S.C. & G.S. standard disk stamped "Downing 1934"	861.446 861.936 862.360
Reference mark 1; U.S.C. & G.S. standard reference disk	
Reference mark 2; U.S.C. & G.S. standard reference disk	
Memphis, 7 mi. W. of, 25 ft. S. and 15 ft. W. from junction of rd. S., on S. end of W. concrete head wall of culvert; chiseled square	832.70
Memphis, 6.2 mi. W. of, 20 ft. S. and 90 ft. E. from junction of rd. N., on E. end of iron pipe culvert; chiseled square	820.98
Memphis, 6.2 mi. W. of, W. sixteenth cor. between secs. 8 and 17, T. 65 N., R. 12 W., 35 ft. S. of highway, 3 ft. N. and 3 ft. E. from fence corner, in concrete post; standard tablet stamped "1504 C W A 1935"	831.548

*Accuracy doubtful because of insufficient connections.

	<u>Feet</u>
Memphis, 5.1 mi. W. of, 27 ft. S. and 18 ft. W. from junction of rd. S., on S. end of W. concrete head wall of culvert; chiseled square	826.49
(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 1936)	
(Continued from Memphis quadrangle; see line 4.)	
T. 63 N., R. 12 W., quarter cor. between secs. 4 and 5, 25 ft. S. and 85 ft. E. from crossroads, in root on W. side of 20-in. elm tree; copper nail and washer	828.02
4. FROM POINT ON STATE HIGHWAY 4, 7.5 MILES WEST OF MEMPHIS, SOUTH THROUGH BIBLE GROVE INTO La PLATA QUADRANGLE AT SEC. 26, T. 63 N., R. 13 W. (by G. R. Hamlin in 1936)	
T. 65 N., R. 13 W., near center sec. 11, 20 ft. S. and 85 ft. W. from T-rd. N., on W. end of S. concrete head wall of culvert; chiseled square	796.14
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)	767.04
T. 65 N., R. 13 W., in NW 1/4 sec. 14, 125 ft. E. of rd. corner E.-S., on N. end of iron pipe culvert; painted square	820.52
T. 65 N., R. 13 W., near cor. secs. 14, 15, 22, and 23, 12 ft. N. and 100 ft. W. from crossroads, on N. end of NE. wing wall of culvert; chiseled square	766.88
T. 65 N., R. 13 W., near E. sixteenth cor. between secs. 14 and 23, 25 ft. N. and 30 ft. W. from rd. forks, in root on S. side of 6-in. hackberry tree; copper nail and washer	754.50
T. 65 N., R. 13 W., in SE 1/4 sec. 23, 25 ft. N. and 25 ft. E. from T-rd. N., in root on S. side of 12-in. hickory tree; copper nail and washer	827.35
T. 65 N., R. 13 W., near cor. secs. 23, 24, 25, and 26, at T-rd. S., on E. end of iron pipe culvert; painted square	767.30
T. 65 N., R. 13 W., cor. secs. 25, 26, 35, and 36, 25 ft. S. and 5 ft. W. from T-rd. N., in concrete post; U.S.C. & G.S. and State Survey standard disk	805.293
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 18-in. maple tree; copper nail and washer	801.89
T. 64 N., R. 13 W., S. sixteenth cor. between secs. 1 and 2, 12 ft. S. and 40 ft. W. from crossroads, at SE. corner of steel bridge, on S. end of steel girder plate; painted square	827.20
T. 64 N., R. 13 W., 0.1 mi. E. of cor. secs. 11, 12, 13, and 14, 90 ft. S. and 55 ft. W. from T-rd. N., in root on W. side of 30-in. elm tree; copper nail and washer	799.03
T. 64 N., R. 13 W., quarter cor. between secs. 12 and 13, 15 ft. S. and 210 ft. W. from T-rd. S., in top of wing wall piling at SE. corner of small steel bridge; copper nail and washer	791.40
Bible Grove, at W. limits of, 28 ft. S. and 24 ft. W. from County Route T at rd. S., on property of Virgil Blaine, in concrete post; standard tablet stamped "T 10 G 1935"	850.360
T. 64 N., R. 13 W., in NW 1/4 sec. 24, 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	732.72
T. 64 N., R. 13 W., in SW 1/4 sec. 24, 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	729.47
T. 64 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	854.09
Rd. corner NE.-S., 30 ft. W. of, in root on E. side of 10-in. hickory tree; crossed nails	876.65
T. 64 N., R. 13 W., quarter cor. between secs. 35 and 36, 20 ft. S. and 45 ft. E. from T-rd. N., in top of 6-in. hedge stump; copper nail and washer	876.00
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"	883.827
T. 63 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	864.33
T. 63 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 Fabius River; painted square	803.24
T. 63 N., R. 13 W., cor. secs. 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	896.30
T. 63 N., R. 13 W., cor. secs. 14, 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	843.28
T. 63 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	867.66

(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.)

	<u>Feet</u>
Bible Grove, 3 mi. E. of, 38 ft. N. and 2 ft. E. from highway at fences N. and S., in concrete post; standard tablet stamped "T T 11 G 1935"	812.581
Bible Grove, about 1.4 mi. E. of, 15 ft. S. and 75 ft. W. from N.-S. crossroad, on W. end of S. concrete head wall of culvert; chiseled square	782.66
Bible Grove, about 0.6 mi. E. of, 90 ft. S. and 70 ft. W. from junction of rd. S., in root on S. side of 12-in. elm tree; copper nail and washer	834.30
Bible Grove, in front of church opposite store building, on NE. corner of concrete sidewalk; chiseled square	863.75

6. FROM POINT 1.5 MILES EAST OF ADAIR WEST TO SEC. 20, T. 63 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 30-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	927.82
Adair, 0.2 mi. N. and 0.3 mi. W. from, in NW 1/4 sec. 20, T. 63 N., R. 13 W., 12 ft. N. and 5 ft. E. from rd. corner W.-S., in concrete post; standard tablet stamped "T T 132 C 1936"	927.331
T. 63 N., R. 13 W., cor. secs. 17, 18, 19, and 20, 195 ft. S. and 25 ft. E. from T-rd. W., on N. end of E. concrete head wall of culvert; chiseled square	863.80
T. 63 N., Rs. 13 and 14 W., cor. secs. 13, 16, 19, and 24, 65 ft. S. and 25 ft. E. from crossroads, in root on S. side of 20-in. elm tree; copper nail and washer	938.57
T. 63 N., R. 14 W., W. sixteenth cor. between secs. 13 and 24, 15 ft. N. and 15 ft. W. from T-rd. N., on S. end of W. concrete head wall of culvert; chiseled square	939.41
T. 63 N., R. 14 W., E. sixteenth cor. between 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	939.20
T. 63 N., R. 14 W., cor. secs. 14, 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. 63 N., R. 14 W., on line between secs. 15 and 22, on W. end of SW. concrete wing wall of bridge; chiseled square	864.62
T. 63 N., R. 14 W., cor. secs. 15, 16, 21, and 22, 40 ft. S. and 35 ft. E. from crossroads, in root on N. side of 24-in. elm tree; copper nail and washer	932.90
T. 63 N., R. 14 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 18-in. elm tree; copper nail and washer	858.00
T. 63 N., R. 14 W., quarter cor. between secs. 17 and 20, 30 ft. N. and 600 ft. W. from junction of rd. S., in root on S. side of 30-in. 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. 64 N., R. 13 W., 30 ft. N. and 60 ft. W. from T-rd. N., in root on SW. side of 14-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. 64 N., R. 13 W., on top of ridge, 15 ft. N. and 30 ft. W. from T-rd. S., on N. end of iron pipe culvert; chiseled square	828.33
Bible Grove, 1.7 mi. W. of, in SW 1/4 sec. 15, T. 64 N., R. 13 W., 150 ft. W. of farmhouse of Victor Ketchum, 40 ft. W. of rd., in root on SE. side of 10-in. elm tree; copper nail and washer	858.37
Bible Grove, 2.5 mi. W. of, in E 1/2 sec. 16, T. 64 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. 64 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 Brunz; chiseled square	875.58
T. 64 N., R. 13 W., quarter cor. between secs. 8 and 17, 50 ft. S. and 12 ft. W. from T-rd. N., in root on E. side of 12-in. white-oak tree; copper nail and washer	848.05
T. 64 N., R. 13 W., E. 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"	890.454
T. 64 N., R. 13 W., in NE 1/4 sec. 18, 30 ft. N. and 30 ft. W. from County Route A at rd. W., on top of concrete right-of-way post; chiseled cross	895.42
T. 64 N., Rs. 13 and 14 W., N. sixteenth cor. between secs. 13 and 18, 10 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. 64 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

T. 64 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 T 135 C 1936"	Feet 902.038
T. 64 N., R. 14 W., 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	938.16
T. 64 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. 64 N., R. 14 W., center sec. 3, 20 ft. S. and 14 1/2 ft. E. from T-rd. S., in root on NE. side of 36-in. elm tree; crossed nails	938.26
T. 64 N., R. 14 W., quarter cor. between secs. 3 and 4, 13 ft. N. and 18 ft. E. from T-rd. N., on concrete base of corner fence post; chiseled square	923.80
T. 64 N., R. 14 W., N. cor. secs. 3 and 4, 165 ft. N. and 10 ft. W. from abandoned T-rd. E., 2 ft. S. and 25 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 134 C 1936"	960.192
T. 65 N., R. 14 W., S. sixteenth cor. between secs. 33 and 34, 35 ft. N. and 55 ft. W. from T-rd. W., in 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 rd. at N.-S. fence, on concrete abutment at SE. corner of steel bridge; chiseled square	886.26

(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., S. quarter cor. sec. 35, 25 ft. N. and 15 ft. W. from T-rd. N., in E. side of 30-in. post-oak tree; copper nail and washer	873.99
T. 65 N., R. 14 W., N. sixteenth cor. sec. 35, 135 ft. SE. of crossroads, at E. side of dwelling of Abner Aldrich, on concrete wing wall of driveway to basement garage; chiseled square	915.01

9. FROM QUEEN CITY QUADRANGLE AT SEC. 32, T. 66 N., R. 14 W.,
SOUTH THROUGH WILLMATHSVILLE AND SPERRY INTO LA PLATA
QUADRANGLE AT SEC. 17, T. 63 N., R. 14 W.
(by W. V. Kennedy in 1937-38)
(Continued from Queen City quadrangle; see line 9.)

T. 66 N., R. 14 W., in N 1/2 sec. 32, 35 ft. N. and 125 ft. E. from T-rd. E., 55 ft. SE. of farmhouse of Ray Starrett, in root on SW. side of 14-in. black-locust tree; crossed nails	968.07
T. 66 N., R. 14 W., near E. sixteenth cor. sec. 32, 15 ft. N. and 40 ft. W. from rd. corner N.-E., 300 ft. W. of junction of rd. S., in concrete post; standard tablet stamped "12 K 1937"	957.099
T. 65 N., R. 14 W., near quarter cor. between secs. 4 and 5, 140 ft. N. of farmhouse of C. E. Gardine, 15 ft. E. of rd., in root on S. side of large, twin elm tree; copper nail and washer	944.44
T. 65 N., R. 14 W., near center sec. 9, 400 ft. N. of T-rd. E., 30 ft. S. and 25 ft. W. from junction of rd. NW., in concrete post; standard tablet stamped "13 K 1937"	821.208
T. 65 N., R. 14 W., in NE 1/4 sec. 16, 200 ft. NW. of farmhouse, 14 1/2 ft. N. and 20 ft. E. 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 60 ft. E. from T-rd. N., 45 ft. N. of NE. corner of farmhouse of Albert Hoten, in root on N. side of 22-in. maple tree; copper nail and washer	947.14
T. 65 N., R. 14 W., on line between secs. 20 and 21, 275 ft. N. 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., in NE 1/4 sec. 20, 550 ft. N. of T-rd. N., 20 ft. S. and 20 ft. W. from rd. corner S.-E., on NE. corner of concrete porch of Figgee's general store; chiseled square	961.94
T. 65 N., R. 14 W., quarter cor. between secs. 28 and 29, 20 ft. S. and 10 ft. W. from T-rd. N., 3 ft. N. of fence, in concrete post; standard tablet stamped "14 K 1937"	965.927
T. 65 N., R. 14 W., on line between secs. 29 and 32, 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 8-in. hedge 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 fence, in concrete post; standard tablet stamped "15 K 1937"	944.116
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

	<u>Feet</u>
T. 64 N., R. 14 W., quarter cor. between secs. 22 and 27, 20 ft. S. and 40 ft. W. from County Route A at crossroad, on E. end of iron pipe culvert; chiseled square	951.12
T. 64 N., R. 14 W., W. sixteenth cor. between secs. 23 and 26, 200 ft. E. of farmhouse of E. F. Morehouse, 30 ft. N. and 420 ft. W. from T-rd. S., in root on E. side of 16-in. elm tree; copper nail and washer	933.43
Willmathsville, about 0.2 mi. N. of, about 400 ft. NW. of Willmathsville School, 75 ft. SW. of rd. forks, in root on E. side of 12-in. hickory tree; crossed nails	923.36
Willmathsville, at W. limits of, near center sec. 25, T. 64 N., R. 14 W., 15 ft. N. and 220 ft. W. from crossroads, on center of N. head wall of concrete culvert; chiseled square	913.19
Willmathsville, 1 mi. SW. of, quarter cor. between secs. 25 and 36, T. 64 N., R. 14 W., 12 ft. S. and 200 ft. W. from rd. corner W.-N., 65 ft. N. of farmhouse, in root on N. side of twin 20-in. maple tree; copper nail and washer	926.80
T. 64 N., R. 14 W., N. sixteenth cor. sec. 35, 660 ft. S. and 15 ft. E. from T-rd. W., 50 ft. S. of gate, in root on W. side of 14-in. black-oak tree; copper nail and washer	944.03
T. 64 N., R. 14 W., N. sixteenth cor. sec. 34, 20 ft. N. and 35 ft. W. from T-rd. E., in root on E. side of 18-in. elm tree; copper nail and washer	895.90
T. 64 N., R. 14 W., near quarter cor. between secs. 27 and 34, 30 ft. N. and 625 ft. W. from T-rd. W., 50 ft. SW. of farmhouse, in root on SE. side of 10-in. maple tree; crossed nails	927.12
T. 64 N., R. 14 W., cor. secs. 28, 29, 32, and 33, 20 ft. S. and 35 ft. E. from T-rd. E., in fence line, in root on W. side of 10-in. hedge tree; copper nail and washer	975.20
T. 64 N., R. 14 W., on line between secs. 32 and 33, 55 ft. N. and 150 ft. E. from T-rd. N., in root on SW. side of 30-in. locust tree; crossed nails	974.12
Sperry, 2 mi. N. of, center sec. 32, T. 64 N., R. 14 W., 10 ft. N. and 70 ft. E. from T-rd. S., on NW. wing wall of concrete culvert; chiseled square	937.43
Sperry, 1.5 mi. N. of, quarter cor. between secs. 5 and 32, Tps. 63 and 64 N., R. 14 W., 20 ft. S. and 55 ft. W. from T-rd. S., 20 ft. S. and 15 ft. W. from T-rd. N., in concrete post; standard tablet stamped "1 K 1938"	972.048
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	974.21
Sperry, in schoolyard, on SW. corner of concrete platform of cistern; chiseled square	959.97
Sperry, 1 mi. S. of, center sec. 17, T. 63 N., R. 14 W., 25 ft. S. and 35 ft. E. from T-rd. W., in root on NW. side of 24-in. elm tree; copper nail and washer	860.09

(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 1938)

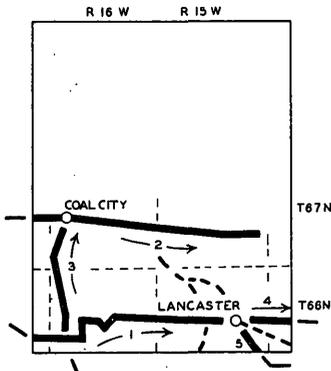
T. 63 N., R. 14 W., on line between secs. 17 and 18, 175 ft. W. of farmhouse, 75 ft. S. and 30 ft. E. from rd. corner S.-E., in root on W. side of 14-in. elm tree; crossed nails	949.39
T. 63 N., R. 14 W., near SW. cor. sec. 17, 30 ft. NE. of T-rd. N.; iron post stamped "Prim Trav Sta No 1 1910 Mo"	915.762

(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 Jct.

MOULTON QUADRANGLE*
(Latitude 40°30'-40°45'; longitude 92°30'-92°45')

Putnam and Schuyler Counties



1. FROM CENTERVILLE QUADRANGLE AT SEC. 24, T. 66 N., R. 17 W., EAST ALONG ROADS TO POINT ABOUT 1.4 MILES SW. OF GLENWOOD, THENCE EAST ALONG STATE HIGHWAY 4 TO LANCASTER (by Cornish Beck in 1936)

(Continued from Centerville quadrangle; see line 1.)

	<u>Feet</u>
T. 66 N., Rs. 16 and 17 W., 0.2 mi. N. of cor. secs. 19, 24, 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"	847.780
T. 66 N., R. 16 W., 500 ft. S. of quarter cor. between secs. 19 and 20, 25 ft. S. and 180 ft. E. from T-rd. S., in root on N. side of 22-in. 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
T. 66 N., R. 16 W., in NW 1/4 sec. 21, 20 ft. S. and 190 ft. E. from T-rd. N., in S. side of telephone pole; nails	839.33
T. 66 N., R. 16 W., in SE 1/4 sec. 16, 21 ft. S. and 36 ft. E. from rd. corner S.-E., 650 ft. N. and 36 ft. E. from T-rd. W., 33 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; copper nail and washer	935.54
Rd. forks S., 70 ft. S. and 120 ft. W. from, in root on SE. side of 20-in. white-oak tree; nail	989.54
Glenwood, 3 mi. W. of, about 0.1 mi. E. of cor. secs. 13, 18, 19, and 24, T. 66 N., Rs. 15 and 16 W., 25 ft. E. of N.-S. rd., 40 ft. N. of center of triangle at T-rd. E.; iron post stamped "Prim Trav Sta No 4 1910 Mo"	993.680
T. 66 N., R. 15 W., near E. sixteenth cor. between secs. 18 and 19, 15 ft. N. and 18 ft. W. from crossroads, in S. side of telephone pole; nails	990.23
T. 66 N., R. 15 W., cor. secs. 17, 18, 19, and 20, 370 ft. E. of, 40 ft. W. of SW. corner of garden fence at dwelling of William Ford, in root on S. side of 16-in. elm tree; copper nail and washer	994.54
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	907.77
U.S.C. & G.S. standard disk stamped "W 85 1935"	987.649
Junction of rd. W., 60 ft. N. of, in SE. side of transmission-line pole; nails	923.44
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	905.39
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	887.39
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"	967.354

*The greater part of this quadrangle lies in Iowa.

2. FROM CENTERVILLE QUADRANGLE EAST ALONG IOWA-MISSOURI STATE LINE TO SMALL TRIANGULATION STATION AT SEC. 13, T. 67 N., R. 14 W. (by Cornish Beck in 1936)
(Continued from Centerville quadrangle; see line 3.)

	<u>Feet</u>
T. 67 N., R. 16 W., in SW 1/4 sec. 18, in top of NW. pile of wooden bridge over Spring Creek; copper nail and washer	838.82
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	830.06
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 1923"	838.991
Coal City, Iowa, 1 mi. NE. of, on SW. corner of carriage block at Hilltown Church; chiseled square	949.89
Coal City, Iowa, 1.6 mi. NE. of, in NE 1/4 sec. 16, T. 67 N., R. 16 W., 24 ft. S. and 37 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 73 J J 1936"	958.488
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	962.90
T. 67 N., R. 16 W., on line between secs. 14 and 23, 6 ft. S. and 148 ft. W. from rd. junction, on SW. wing wall of bridge; chiseled square	873.64
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 W. side of 18-in. elm tree; copper nail and washer	924.21
Coatsville, 66 ft. N. of County Route B at rd. NW., in step of Holiness Church; standard tablet stamped "T T 75 J J 1936"	991.794
U.S.C. & G.S. standard disk stamped "S 83 1935"	991.504
Coatsville, 1 mi. E. of, N. cor. secs. 29 and 30, T. 67 N., R. 15 W., 23 ft. S. and 28 ft. E. from T-rd. S., in N. side of fence post; spike	950.87
Coatsville, 2 mi. E. of, N. cor. secs. 28 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	942.12
T. 67 N., R. 15 W., N. cor. secs. 21 and 22, on Iowa-Mo. State line, 16 ft. N. of T-rd. S., 480 ft. N. of T-rd. W., in concrete post; standard tablet stamped "T T 76 J J 1936"	951.711
T. 67 N., R. 15 W., N. cor. secs. 22 and 23, on Iowa-Mo. State line, 52 ft. S. and 68 ft. W. from T-rd. S., in root on NE. side of 16-in. elm tree; copper nail and washer	889.85
T. 67 N., R. 15 W., N. cor. secs. 23 and 24, on Iowa-Mo. State line, 30 ft. N. of T-rd. S., in root on SW. side of 20-in. elm tree; copper nail and washer	957.52
Small triangulation sta.; U.S.C. & G.S. standard disk stamped "Small 1934"	959.019

3. 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., in root on NW. side of 30-in. silver-maple tree; copper nail and washer	989.06
T. 66 N., R. 16 W., in S 1/2 sec. 7, 138 ft. E. of T-rd. S., in root on S. side of 14-in. oak tree; nail	985.24
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	981.56
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"	973.301
T. 66 N., R. 16 W., in NE 1/4 sec. 6, on SW. wing wall of bridge over Coon Creek; chiseled square	820.02
T. 67 N., R. 16 W., in SE 1/4 sec. 31, 55 ft. N. and 15 ft. W. from T-rd. W., in W. side of 26-in. cottonwood tree; spike	865.77
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	944.54
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"	856.924

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"	965.320
Lancaster, 1.2 mi. E. of, on S. end of W. concrete wing wall of bridge J-690 1931; chiseled square	855.01

(Continued in Pulaski quadrangle; see line 2.)

5. FROM LANCASTER SOUTH INTO QUEEN CITY QUADRANGLE AT SEC. 30, T. 66 N., R. 14 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	855.80
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Lancaster, 1.5 mi. 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

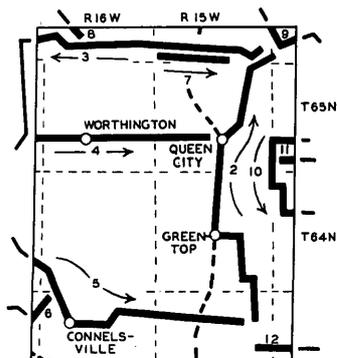
Feet
946.09

(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)

<p>T. 63 N., R. 14 W., in SE 1/4 sec. 7, about 1 mi. 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</p> <p>T. 66 N., R. 14 W., near quarter cor. between secs. 30 and 31, 100 ft. W. of small wooden bridge, 50 ft. N. of rd., in root of 2 1/2-in. elm tree; copper nail and washer</p>	<p>866.62</p> <p>877.90</p>
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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)

<p>T. 63 N., R. 15 W., quarter cor. between secs. 11 and 12, 0.5 mi. E. of Bryant School, NW. of T-rd. N.; iron post stamped "973"</p> <p>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</p> <p>Tps. 63 and 64 N., R. 15 W., quarter cor. between secs. 2 and 35, 1.5 mi. E. of Sublette, NE. of crossroads, in root of willow tree; copper nail</p> <p>T. 64 N., R. 15 W., in N 1/2 sec. 35, opposite T-rd. E.; iron post stamped "973"</p> <p>T. 64 N., R. 15 W., about 0.1 mi. S. of cor. secs. 26, 27, 34, and 35, 600 ft. N. of T-rd. N., at W. edge of rd., in root of 8-in. elm tree; copper nail</p> <p>Greentop, 1.3 mi. N. of, along Wabash Ry., 100 ft. W. of rd. crossing, at N. edge of rd.; iron post stamped "979"</p> <p>Queen City, on S. side of public square, 50 ft. N. of post office, at N. edge of Main Street; iron post stamped "1005"</p> <p>T. 65 N., R. 15 W., near center sec. 23, 0.5 mi. SW. of Blacks School, at N. edge of private rd. E., inside of gate; iron post stamped "Mc 986"</p> <p>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</p> <p>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 "No 852"</p>	<p>970.458</p> <p>891.95</p> <p>927.05</p> <p>970.608</p> <p>969.99</p> <p>977.583</p> <p>1,002.951</p> <p>983.564</p> <p>950.59</p> <p>849.740</p>
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3. FROM SEC. 36, T. 66 N., R. 15 W., WEST THROUGH NORTH PART OF QUADRANGLE INTO GREEN CITY QUADRANGLE AT SEC. 25, T. 66 N., R. 17 W. (by P. W. McMillen in 1910-11)

	<u>Feet</u>
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 24-in. elm tree; copper nail	883.01
Tps. 65 and 66 N., R. 15 W., on line between secs. 3 and 34, opposite T-rd. S.; iron post stamped "Mo 941"	938.352
T. 66 N., R. 15 W., about 0.1 mi. E. of center sec. 33, 3 mi. S. of Glenwood, opposite T-rd. W., in root of elm tree; copper nail	989.93
T. 66 N., R. 15 W., near line between secs. 32 and 33, 1 mi. NE. of Julesburg, 75 ft. W. of Wabash Ry. at rd. crossing, in root of 24-in. elm tree; copper nail	976.59
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 "Mo 984"	981.808
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 24-in. maple tree; copper nail	832.85
T. 66 N., R. 16 W., near center sec. 35, at rd. junction, 75 ft. W. of dwelling; iron post stamped "Mo 965"	962.504
T. 66 N., R. 16 W., in SE 1/4 NE 1/4 sec. 34, 1.3 mi. E. of Grogan Bridge, at N. edge of rd., in root of 24-in. oak tree; copper nail	923.62
Livonia, 0.5 mi. SE. of, in SE. abutment of Grogan Bridge over Chariton River; bolt head	801.52
Livonia, 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 State Highway 4 at rd. S.; iron post stamped "Mo 957"	954.508
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	826.79
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	840.07

(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 P. 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 Erashfield School, at top of ridge, at E. edge of rd.; iron post stamped "Mo 947"	944.443
Worthington, 0.5 mi. W. of, near W. sixteenth cor. sec. 28, T. 65 N., R. 16 W., at N. edge of rd., on boulder; chiseled mark	855.23
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 "Mo 795"	793.093
T. 65 N., R. 16 W., in NE 1/4 sec. 22, in SW. corner of iron bridge over Elm Creek; bolt head	798.35
T. 65 N., R. 16 W., in NE 1/4 NE 1/4 sec. 23, 1 mi. N. of Satterfield School, on top of ridge at rd. forks, at N. edge of rd., in root of 12-in. oak tree; copper nail	920.40
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 24-in. oak tree; copper nail	921.92
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.; iron post stamped "Mo 975"	972.617
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	989.22

5. FROM GREEN CITY QUADRANGLE AT SEC. 24, T. 64 N., R. 17 W., EAST TO SEC. 11, T. 63 N., R. 15 W. (by P. W. McMillen in 1910-11)
(Continued from Green City quadrangle; see line 1.)

T. 64 N., R. 16 W., about 0.1 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. SW. of log dwelling, at S. edge of rd., on boulder; chiseled mark	926.58
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	916.02
T. 63 N., R. 16 W., near center sec. 5, 700 ft. E. of iron bridge over Shuteye Creek, NW. of T-rd. N., in root of 24-in. maple tree; copper nail	782.91
Conneleville, about 0.2 mi. N. of old Iowa and St. Louis R.R. sta. (now abandoned), 600 ft. N. of iron bridge over Shuteye Creek, 200 ft. W. of track, at E. edge of rd.; iron post stamped "Mo 768"	765.595
Conneleville, 0.8 mi. S. of, in NW. abutment of iron bridge over Chariton River; bolt head	770.28
Conneleville, about 1 mi. E. of, in NW 1/4 sec. 10, T. 63 N., R. 16 W., at top of ridge, 100 ft. E. of dwelling, at S. edge of rd., in root of 18-in. hickory tree; copper nail	869.51
Fegley, 0.8 mi. W. of, in SW 1/4 sec. 2, T. 63 N., R. 16 W., 300 ft. E. of T-rd. N., 50 ft. E. of rd., in root of 12-in. oak tree; copper nail	922.53
Fegley, near cor. secs. 1, 2, 11, and 12, T. 63 N., R. 16 W., about 700 ft. S. of store, at E. edge of rd.; iron post stamped "Mo 941"	938.653
Fegley, about 1 mi. E. of, in SE 1/4 SE 1/4 sec. 1, T. 63 N., R. 16 W., 100 ft. N. of dwelling of W. F. Miller, at N. edge of rd., in root of 10-in. oak tree; copper nail	936.76

- Sublette, 2.5 mi. SW. of. in NE 1/4 SE 1/4 sec. 6, T. 63 N., R. 15 W., at top of hill, 150 ft. W. of large dwelling, at N. edge of rd., in root of 12-in. hickory tree; copper nail Foot
931.50
- Sublette, 1.8 mi. SW. of, in SE. cor. sec. 5, T. 63 N., R. 15 W., about 0.8 mi. W. of Wabash Ry., 100 ft. W. of small dwelling, at N. edge of rd., in root of 14-in. cottonwood tree; copper nail 917.39
- Refuge Church, 250 ft. S. of, near W. sixteenth cor. between secs. 10 and 15, T. 63 N., R. 15 W., at SE. corner of cemetery, 25 ft. N. of rd.; iron post stamped "No 937" 934.756
- T. 63 N., R. 15 W., near cor. secs. 10, 11, 14, and 15, 200 ft. E. of large dwelling, 30 ft. N. of rd., in root of 12-in. elm tree; copper nail 952.99
6. FROM GREEN CITY QUADRANGLE AT SEC. 1, T. 63 N., R. 17 W.
(by P. W. McMillen in 1910-11)
(Continued from Green City quadrangle; see line 2.)
- T. 63 N., R. 16 W., near W. sixteenth cor. sec. 6, 50 ft. N. of Bethel Church, in root of 12-in. oak tree; copper nail 966.92
7. FROM SEC. 32, T. 66 N., R. 15 W., EAST TO SEC. 34, T. 66 N., R. 15 W. (by R. W. Mattox in 1935)
- T. 66 N., R. 15 W., in SW 1/4 sec. 32, 300 ft. E. of dwelling, 150 ft. N. of rd., in root on S. side of 30-in. oak tree; copper nail and washer 974.35
- T. 66 N., R. 15 W., in SE 1/4 sec. 32, 30 ft. E. of E. door of Bethel Church, in root on N. side of 10-in. hickory tree; nail and washer 991.29
- T. 66 N., R. 15 W., near line between secs. 32 and 33, 1 mi. NE. of N. switch of Wabash Ry. at Julesburg, 50 ft. E. of rd. crossing, in right-of-way fence, in root on W. side of 20 in. elm tree; nail and washer 978.63
- T. 65 N., R. 15 W., in NE 1/4 sec. 5, 0.5 mi. N. of N. switch of Wabash Ry. at Julesburg, 150 ft. SE. of rd. crossing, in root on W. side of 24-in. oak tree; nail and washer 977.44
- U.S.C. & G.S. standard disk stamped "Y 83 1935" 998.180
- T. 65 N., R. 15 W., in NE 1/4 sec. 5, 100 ft. W. of T-rd. W., 12 ft. S. of S. fence, in root on SE. side of 40-in. elm tree; nail and washer 967.18
- T. 65 N., R. 15 W., in NE 1/4 sec. 5, 300 ft. E. of dwelling, 75 ft. N. of old rd., 100 ft. NW. of barn, in root on S. side of 36-in. elm tree; nail and washer 974.72
- T. 65 N., R. 15 W., in NW 1/4 sec. 4, in root on S. side of twin 36-in. elm tree; nail and washer 923.10
- T. 65 N., R. 15 W., near N. sixteenth cor. sec. 4, in fence line E. of rd., in root on W. side of 18-in. elm tree; nail and washer 977.22
- T. 65 N., R. 15 W., near N. quarter cor. sec. 4, in S. fence line, in root on N. side of tree; nail and washer 986.44
- T. 66 N., R. 15 W., in SE 1/4 sec. 33, in fence line N. of rd., in root on S. side of 10-in. haw tree; nail and washer 989.59
- Tps. 65 and 66 N., R. 15 W., on line between secs. 3 and 34, opposite T-rd. S.; iron post stamped "No 941" 938.352
- Reference mark, about 310 ft. W. of post, N. of old rd., in root on S. side of 10-in. elm tree; nail and washer 959.85
8. FROM MOULTON 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 932.70
- 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 872.21
9. FROM MOULTON QUADRANGLE AT SEC. 30, T. 66 N., R. 14 W., SOUTHEAST INTO DOWNING QUADRANGLE AT SEC. 32, T. 66 N., R. 14 W. (by W. V. Kennedy in 1937)
(Continued from Moulton quadrangle; see line 5.)
- T. 66 N., R. 14 W., in SE 1/4 SE 1/4 sec. 30, 700 ft. W. of T-rd. S., 575 ft. E. of rd. forks S., E., and HW., 28 ft. N. of rd., in root on W. side of twin black-locust tree; copper nail and washer 965.79
- (Continued in Downing quadrangle; see line 9.)
10. FROM DOWNING QUADRANGLE AT SEC. 30, T. 65 N., R. 14 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., Rs. 14 and 15 W., cor. secs. 25, 30, 31, and 36, SW. of cross-roads on center of head wall of concrete culvert; chiseled square 945.85
- T. 64 N., Rs. 14 and 15 W., S. sixteenth cor. between secs. 31 and 36, 65 ft. SE. of farmhouse of Walter Ayres, 35 ft. N. and 240 ft. E. from T-rd. E., in root on W. side of 18-in. walnut tree; copper nail and washer 989.11
- T. 64 N., Rs. 14 and 15 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

	<u>Feet</u>
Meyer triangulation sta.; U.S.C. & G.S. standard disk stamped "Meyer 1934"	984.679
Reference mark 1; U.S.C. & G.S. standard reference disk stamped "Meyer No 1 1934"	986.014
Reference mark 2; U.S.C. & G.S. standard reference disk stamped "Meyer No 2 1934"	985.600
Azimuth mark; U.S.C. & G.S. standard disk stamped "Meyer Azi 1934"	989.077
T. 64 N., R. 14 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	985.75
T. 64 N., R. 14 W., near W. sixteenth cor. sec. 7, 340 ft. S. and 18 ft. W. from T-rd. N., in root on NE. side of 16-in. elm tree; crossed nails	986.71

(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 Moot, 30 ft. S. of rd., in root on N. side of twin maple tree; copper nail and washer

978.51

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 24, 15 ft. S. and 20 ft. W. from T-rd. S., on S. end of iron pipe culvert; chiseled square

946.71

T. 63 N., R. 15 W., in NW 1/4 sec. 24, 70 ft. N. and 40 ft. W. from T-rd. S., on SE. corner of bottom concrete step to Oak Grove Church; chiseled square

923.55

T. 63 N., R. 15 W., center sec. 23, 20 ft. N. and 170 ft. E. from T-rd. S., 2 ft. N. of fence, in concrete post; standard tablet stamped "2 K 1938"

932.987

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

947.52

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"

1,002.951

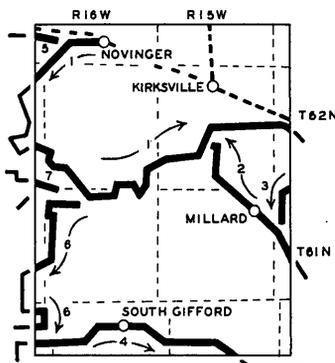
U.S.C. & G.S. standard disk stamped "A 84 1935"

1,002.511

For an additional level line along Wabash Ry., refer to United States Coast and Geodetic Survey second-order line, Moulton, Iowa to Kirksville, Mo.

KIRKSVILLE QUADRANGLE
(Latitude 40°00'-40°15'; longitude 92°30'-92°45')

Adair and Macon Counties



1. FROM NOVINGER WEST ALONG STATE HIGHWAY 6 ABOUT 1.4 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 63, THENCE NORTH ALONG U.S. HIGHWAY 63 TO JUNCTION OF STATE HIGHWAY 6, THENCE EAST ALONG STATE HIGHWAY 6 INTO La PLATA QUADRANGLE (by R. W. Mattox in 1935)

	<u>Feet</u>
U.S.C. & G.S. standard disk stamped "S 16 1933"	769.81
Novinger, on SW. wing of bridge over Davis Creek; chiseled square	769.88
Novinger, about 0.8 mi. W. of, in SW 1/4 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 1.4 mi. W. of, quarter cor. between secs. 30 and 31, T. 63 N., R. 16 W., S. of crossroad, on E. head wall of side rd. culvert; chiseled square	920.12
T. 63 N., R. 16 W., in NW 1/4 sec. 31, 150 ft. S. of T-rd. W., in root on E. side of 16-in. oak tree; copper nail and washer	949.01
T. 63 N., R. 16 W., in SW 1/4 sec. 31, 75 ft. NW. of T-rd. W., in root on SE. side of 18-in. oak tree; copper nail and washer	948.82
T. 62 N., R. 17 W., in NE 1/4 sec. 1, 50 ft. N. 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 Billy 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., Rs. 16 and 17 W., quarter cor. between secs. 19 and 24, 500 ft. SE. of dwelling, in root on E. side of 14-in. oak tree; copper nail and washer	935.43
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	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 30-in. maple tree; copper nail and washer	869.46
T. 62 N., R. 16 W., in SW 1/4 sec. 30, on top of ridge, 900 ft. SE. of school, in fence line W. of rd., in root on NE. 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 SW. side of 30-in. maple tree; copper nail and washer	858.59
T. 62 N., R. 16 W., in NW 1/4 sec. 32, 400 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 C W A 1935"	756.177
T. 61 N., R. 16 W., in NW 1/4 sec. 4, N. of crossroad, on top of E. head wall of culvert; chiseled square	770.65
T. 61 N., R. 16 W., in N 1/2 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	756.9
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 1935, on top of N. pile in E. retaining wall; copper nail and washer	762.26

	<u>Feet</u>
T. 62 N., R. 16 W., in SW 1/4 sec. 34, N. of highway, 20 ft. from fence, in root on S. side of 20-in. oak tree; copper nail and washer	883.04
T. 62 N., R. 16 W., in SE 1/4 sec. 34, 50 ft. N. of highway, 40 ft. E. of rd. N., in root on S. side of 10-in. oak tree; copper nail and washer	933.29
T. 62 N., R. 16 W., in SW 1/4 sec. 35, 65 ft. S. of highway, 75 ft. W. of rd. S., in root on N. side of 10-in. oak tree; copper nail and washer	923.80
T. 61 N., R. 16 W., approximate N. quarter cor. sec. 2, 40 ft. S. and 60 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "794 C W A 1934"	944.146
T. 62 N., R. 16 W., in SE 1/4 sec. 35, 30 ft. N. of highway, E. of private rd. N., in root on S. side of 12-in. oak tree; copper nail and washer	953.23
T. 62 N., R. 16 W., in SW 1/4 sec. 36, 500 ft. W. of junction of County Route N. in E.-W. fence line, in root on N. side of 24-in. oak tree; copper nail and washer	961.24
T. 62 N., R. 16 W., in SE 1/4 sec. 36, 400 ft. S. of dwelling, 63 ft. W. of highway, in root on E. side of triple oak tree; copper nail and washer	971.40
T. 62 N., R. 16 W., in SE 1/4 sec. 36, N. of highway, on top of N. head wall of culvert; chiseled square	964.21
T. 62 N., R. 15 W., in NW 1/4 sec. 31, 50 ft. W. of highway, in root on E. side of 30-in. oak tree; copper nail and washer	968.39
T. 62 N., R. 15 W., in SW 1/4 sec. 30, 35 ft. W. of highway, in concrete post; standard tablet stamped "793 C W A 1934"	960.480
T. 62 N., R. 15 W., near center sec. 30, 150 ft. E. of barn, 25 ft. S. of fence, S. of highway, in root on N. side of twin 36-in. maple tree; copper nail and washer	973.71
T. 62 N., R. 15 W., W. sixteenth cor. sec. 29, on top of ridge, 150 ft. SW. of dwelling, 120 ft. N. of highway, in root on S. side of 10-in. hickory tree; copper nail and washer	979.37
T. 62 N., R. 15 W., near center sec. 29, 150 ft. W. of school, 100 ft. S. of dwelling, at junction of rd. S., on W. head wall of culvert; chiseled square	975.02
T. 62 N., R. 15 W., in NW 1/4 sec. 29, 420 ft. W. of junction of rd. N., E. of Wabash Ry., on N. head wall of culvert; chiseled square	964.09
T. 62 N., R. 15 W., center sec. 28, S. of highway, 5 ft. N. of fence, in root on N. side of 14-in. elm tree; copper nail and washer	943.78
T. 62 N., R. 15 W., in NE 1/4 sec. 28, 100 ft. S. of highway, in E.-W. fence, in root on N. side of twin 24-in. elm tree; copper nail and washer	967.95
Kirkville, 2.2 mi. S. of S. limits of, 225 ft. S. and 57 ft. W. from junction of U. S. Highway 63, in concrete post; standard tablet stamped "785 C W A 1934"	905.011
Kirkville, 2 mi. S. of S. limits of, 175 ft. W. of highway, W. of dwelling on Roger farm, in root on E. side of 36-in. locust tree; copper nail and washer	966.38
T. 62 N., R. 15 W., in E 1/2 sec. 21, on top of ridge, 100 ft. W. of highway, in root on E. side of 16-in. oak tree; copper nail and washer	952.99
Kirkville, 1 mi. S. of S. limits of, at S. junction of State Highway 6, on N. head wall of concrete culvert; chiseled square	921.50
T. 62 N., R. 15 W., on line between secs. 15 and 22, 50 ft. S. of highway, 50 ft. E. of junction of rd. S., E. of cemetery, in root on N. side of 12-in. white-oak tree; copper nail and washer	925.04
T. 62 N., R. 15 W., E. sixteenth cor. between secs. 15 and 22, 150 ft. W. of junction of rd. N., on N. head wall of culvert; chiseled square	966.22
T. 62 N., R. 15 W., in SW 1/4 sec. 14, 100 ft. E. of dwelling, N. of highway, S. of rd., on N. head wall of culvert; chiseled square	937.96
T. 62 N., R. 15 W., near quarter cor. between secs. 14 and 23, 200 ft. SW. of Radical School, at junction of rd. N., on W. head wall of culvert; chiseled square	906.98
T. 62 N., R. 15 W., cor. secs. 13, 14, 23, and 24, 33 ft. N. and 3 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "1421 C W A 1934"	939.121
T. 62 N., R. 15 W., quarter cor. between secs. 13 and 24, at junction of rd. S., on W. head wall of culvert; chiseled square	958.67
T. 62 N., Rs. 14 and 15 W., cor. secs. 13, 18, 19, and 24, 400 ft. W. of junction of rd. N., on S. head wall of culvert; chiseled square	919.94
T. 62 N., R. 14 W., E. sixteenth cor. between secs. 18 and 19, 150 ft. E. of junction of rd. S., on N. head wall of culvert; chiseled square	950.58

(Continued in La Plata quadrangle; see line 4.)

2. FROM LA PLATA QUADRANGLE NORTHWEST ALONG U.S. HIGHWAY 63 TO JUNCTION OF STATE HIGHWAY 11 (by R. W. Mattox in 1935)
(Continued from La Plata quadrangle; see line 2.)

T. 61 N., R. 14 W., in SE 1/4 sec. 19, 200 ft. SE. of farmhouse, on W. head wall of culvert; chiseled square	925.25
Concrete culvert, opposite Wabash Ry. culvert 1998, on W. head wall; chiseled square	934.91
T. 61 N., Rs. 14 and 15 W., about 0.2 mi. E. of cor. secs. 13, 18, 19, and 24, 40 ft. N. and 60 ft. W. from crossroad, in concrete post; standard tablet stamped "791 C W A 1934"	936.685
Milepost 144 on Wabash Ry., 100 ft. S. of, 54 ft. E. of highway, 3 ft. W. of N.-S. fence, in root on W. side of 12-in. elm tree; nails	947.00
T. 61 N., R. 15 W., in sec. 13, opposite Wabash Ry. trestle 2002, on W. end of head wall of concrete culvert; chiseled square	934.82
Telephone pole on N.-S. rd., 100 ft. S. of highway, on base; chiseled square	965.07
T. 61 N., R. 15 W., in SE 1/4 sec. 11, near Millard, 300 ft. N. of S. switch of Wabash Ry., on top of W. head wall of culvert; chiseled square	963.49

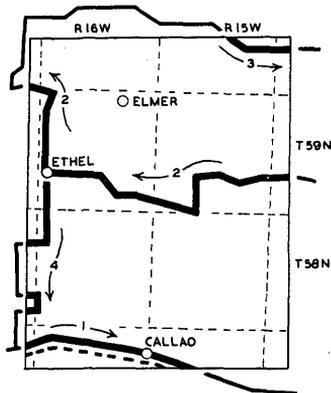
	<u>Feet</u>
Millard, in front of Wabash Ry. sta., at base of signboard; surface of ground	970.2
T. 61 N., R. 15 W., in SE 1/4 sec. 3, 30 ft. S. of junction of rd. N., in concrete post; standard tablet stamped "792 C W A 1934"	970.643
Wabash Ry. culvert 2003, 200 ft. S. of, 50 ft. E. of highway, in root on S. side of 18-in. elm tree; spike	955.24
Tps. 61 and 62 N., R. 15 W., on line between secs. 3 and 34, 150 ft. S. of junction of rd. W., near point where Wabash Ry. and highway separate, on top of W. head wall of culvert; chiseled square	960.32
Stucco dwelling, 150 ft. S. of, N. of highway, on W. head wall of culvert; chiseled square	967.81
T. 62 N., R. 15 W., in SW 1/4 sec. 27, N. of crossroad, on W. head wall of culvert; chiseled square	959.69
T. 62 N., R. 15 W., in NW 1/4 sec. 27, on top of hill, near junction of State Highway 11, on W. head wall of cattle underpass; chiseled square	945.15
3. FROM La PLATA QUADRANGLE AT SEC. 5, T. 61 N., R. 14 W., SOUTHEAST TO SEC. 18, T. 61 N., R. 14 W. (by R. W. Mattox in 1935) (Continued from La Plata quadrangle; see line 4.)	
Bear Creek; surface of water at 2:30 p.m. Dec. 31, 1935	855.9
T. 61 N., R. 14 W., in E 1/2 sec. 6, 500 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	909.60
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	931.27
T. 61 N., R. 14 W., on line between secs. 6 and 7, at T-rd. S., in N. fence line, in root on S. side of 24-in. oak tree; nails	907.26
T. 61 N., R. 14 W., in NW 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	944.84
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	953.6
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 36 ft. E. from crossroads, in root on S. side of 36-in. elm tree; copper nail and washer	779.50
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	784.26
T. 60 N., R. 16 W., in SW 1/4 sec. 8, 150 ft. N. and 42 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	898.46
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	904.90
South Gifford, 1.4 mi. W. of, about 600 ft. N. of E. sixteenth cor. sec. 8, T. 60 N., R. 16 W., 30 ft. N. and 20 ft. W. from rd. corner W.-S., in concrete post; standard tablet stamped "1547 E R A 1935"	841.418
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., 380 ft. W. of rd. at N.-S. fence, in root on S. side of 28-in. maple tree; copper nail and washer	735.30
South Gifford, on front step to door of Gifford Savings Bank; chiseled square	766.89
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 20-in. black-oak tree; copper nail and washer	861.04 849.1
Junction of rd. S.; surface of highway	
T. 60 N., R. 16 W., 380 ft. W. of S. sixteenth cor. between secs. 11 and 12, 30 ft. N. and 4 ft. W. from County Route D at rd. S., 30 ft. S. and 81 ft. E. from SE. corner of school, in concrete post; standard tablet stamped "1548 E R A 1935"	763.973
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	776.22
T. 60 N., R. 16 W., in NW 1/4 sec. 13, 51 ft. S. and 30 ft. W. from T-rd. S., 27 ft. E. of farmhouse, in root on SE. side of 12-in. black-oak tree; copper nail and washer	891.41
T. 60 N., R. 16 W., in SE 1/4 sec. 13, 48 ft. N. and 10 ft. W. from T-rd. N., 260 ft. E. of E. face of farmhouse, in root on E. side of 12-in. white-oak tree; copper nail and washer	905.18
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	926.38
T. 60 N., R. 15 W., near quarter cor. between secs. 17 and 20, 15 (? 20) ft. N. and 30 ft. W. from T-rd. W. (? E.), in concrete post; standard tablet stamped "1549 E R A 1935"	941.665 912.5
Atchison, Topoka & Santa Fe Ry. at rd. crossing; top of E. rail	
T. 60 N., R. 15 W., cor. secs. 15, 16, 21, and 22, 153 ft. N. and 43 ft. W. from T-rd. W., 1 ft. S. and 4 ft. E. from NE. corner of Center School, on NE. corner of concrete porch; chiseled square	933.82

(Continued in Elmer quadrangle; see line 3.)

5. FROM WINIGAN QUADRANGLE ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD EAST ABOUT 1 MILE (by H. B. Pyle and F. Y. Brown in 1937)		
(Continued from Winigan quadrangle; see line 5.)		
T. 63 N., R. 17 W., in SE 1/4 sec. 24, 275 ft. W. of Quincy, Omaha & Kansas City R.R. at rd. crossing, 100 ft. N. of track, 12 ft. N. of rd., on top at center of N. head wall of concrete bridge; chiseled square	<u>Feet</u>	
U.S.C. & G.S. standard disk stamped "U 16 1933"	777.01	
	790.130	
6. FROM SEC. 5, T. 61 N., R. 16 W., SOUTHWEST INTO WINIGAN 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, 0.4 mi. S. 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	935.94	
T. 61 N., R. 16 W., near center sec. 7, 25 ft. E. of N.-S. rd., 1 ft. E. of fence, in root on W. side of 15-in. elm tree; crossed nails	919.90	
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 "1544 E R A 1935"	916.047	
(For balance in Winigan quadrangle, see line 9.)		
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 16-in. white-oak tree; copper nail and washer	945.84	
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 14-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. N. and 40 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.)		
7. FROM SEC. 5, T. 61 N., R. 16 W., WEST INTO WINIGAN QUADRANGLE AT SEC. 36, T. 62 N., R. 17 W. (by J. J. Crane in 1937)		
T. 62 N., R. 16 W., near quarter cor. between secs. 31 and 32, 350 ft. N. and 60 ft. E. from T-rd. E., in root on W. side of 30-in. hickory tree; copper nail and washer	835.98	
T-rd. S., 110 ft. N. and 100 ft. W. from, in root on E. side of 32-in. post-oak tree; crossed nails	858.68	
T-rd. N., 30 ft. S. and 20 ft. E. from, on E. corner of concrete walk at dwelling of O. R. Linder; chiseled square	856.93	
(Continued in Winigan quadrangle; see line 6.)		
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.		

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

Macon County



1. FROM BUCKLIN QUADRANGLE EAST AND SOUTHEAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD BY WAY OF CALLAO INTO COLLEGE MOUND QUADRANGLE (by S. F. Archer in 1920)
(Continued from Bucklin quadrangle; see line 1.)

	<u>Feet</u>
T. 57 N., R. 16 W., in NW 1/4 sec. 6, at E. end of cut, 35 ft. N. of fence, in small drain, in root (4 in. underground) on S. side of 24-in. cottonwood tree; spike	769.38
T. 57 N., R. 16 W., on line between secs. 5 and 6, in fence line N. of track, in root on S. side of 42-in. cottonwood tree; copper nail and washer	696.64
T. 57 N., R. 16 W., in N 1/2 sec. 5, on top of N. end of parapet wall of E. abutment of concrete bridge 84.02; chiseled square	695.59
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 83.49 over Chariton River; chiseled square (elev. determined by U.S.C. & G.S.)	703.125
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 70 F 1924 1920 Mo 692"	691.511
T. 57 N., R. 16 W., in SE 1/4 sec. 4, on top of N. end of E. concrete pier of bridge 82.54 over drainage ditch; chiseled square	691.99
T. 57 N., R. 16 W., on line between secs. 10 and 11, SE. of rd. crossing, in fence corner; iron post stamped "1920 Mo 750"	749.214
T. 57 N., R. 16 W., near center sec. 11, 100 ft. E. of private rd. crossing, S. of fence line S. of track, in root on NW. side of N. one of two 10-in. oak trees; copper nail and washer	770.02
T. 57 N., R. 16 W., near W. sixteenth cor. sec. 12, 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	812.50
T. 57 N., R. 16 W., in E 1/2 sec. 12, on top of E. end of S. heading of bridge 79.42 over Stinking Creek; chiseled square	784.83
Callao, at sta., in front of operator's window, on top of S. side of concrete base of semaphore; chiseled square	815.18
Callao, at NW. corner of Front and Market Streets, in SE. corner of park; iron post stamped "Prim Trav Sta No 71 F 1924 1920 Mo 815"	818.034
T. 57 N., R. 15 W., in SW 1/4 sec. 8, 500 ft. W. of sign marked "Callao", 615 ft. E. of milepost 78, 10 ft. S. of fence S. of track, in root on E. side of 10-in. hickory tree; copper nail and washer	764.03
T. 57 N., R. 15 W., in NE 1/4 sec. 17, on N. end of concrete pier at E. end of bridge 77.37 over Middle Fork of Chariton River; chiseled square (elev. determined by U.S.C. & G.S.)	744.808

(Continued in College Mound quadrangle; see line 1.)

2. FROM ATLANTA QUADRANGLE AT SEC. 19, T. 59 N., R. 14 W., WEST BY WAY OF BARNESVILLE TO ETHEL, THENCE NORTH INTO BUCKLIN QUADRANGLE AT SEC. 1, T. 59 N., R. 17 W.
(by B. A. Farnes in 1936)

(Continued from Atlanta quadrangle; see line 6.)

T. 59 N., R. 14 W., quarter cor. between secs. 19 and 30, 78 ft. S. and 33 ft. W. from T-rd. N., in root on NE. side of 20-in. elm tree; crossed nails	873.03
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	902.84
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	813.54
T. 59 N., R. 15 W., in NW 1/4 sec. 25, 24 ft. N. and 90 ft. E. from crossroads, in root on E. side of 20-in. black-oak tree; copper nail and washer	822.17

	<u>Feet</u>
T. 59 N., R. 15 W., 480 (? 48) ft. E. of N. sixteenth cor. between secs. 25 and 26, 102 ft. S. of farmhouse of J. H. Emdee, 30 ft. S. of rd. at curve, in concrete post; standard tablet stamped "1551 E R A 1935 894"	893.637
T. 59 N., R. 15 W., in NW 1/4 sec. 26, 310 ft. W. of T-rd. S., on outside rivet head of end brace at NW. corner of steel bridge over Lick Branch; chiseled cross	833.28
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. E. from T-rd. N., in root on NW. side of 1 1/2-in. black-oak tree; crossed nails	890.94
T. 59 N., R. 15 W., on line between secs. 21 and 28, 260 ft. W. of T-rd. N., on S. end of E. concrete pier of small bridge over branch; chiseled square	818.58
T. 59 N., R. 15 W., cor. secs. 20, 21, 28, and 29, 35 ft. S. and 35 ft. E. from T-rd. S., in concrete post; standard tablet stamped "1552 E R A 1935 899"	899.055
T. 59 N., R. 15 W., S. cor. secs. 32 and 33, 96 ft. N. and 9 ft. E. from crossroads, on center of E. head wall of concrete culvert; chiseled square	835.46
T. 59 N., R. 15 W., S. cor. secs. 31 and 32, 12 ft. N. and 110 ft. W. from T-rd. S., at rd. corner E.-N., on center of NE. head wall of concrete culvert; chiseled square	823.90
T. 59 N., R. 15 W., quarter cor. between secs. 31 and 32, 18 ft. N. and 75 ft. W. from T-rd. W., in root on S. side of 18-in. maple tree; crossed nails	874.97
T. 59 N., Rs. 15 and 16 W., quarter cor. between secs. 31 and 36, 20 ft. N. and 335 ft. W. from crossroads, in root on N. side of 18-in. elm tree; copper nail and washer	859.82
T. 59 N., R. 16 W., 650 ft. W. of center sec. 36, 5 ft. N. and 25 ft. W. from T-rd. E., in concrete post; standard tablet stamped "1553 E R A 1935 877"	877.288
T. 59 N., R. 16 W., in NE 1/4 sec. 35, 35 ft. S. of SW. corner of farmhouse of J. P. Brookman, 12 ft. N. of rd., in root on NE. side of 1 1/2-in. white-oak tree; copper nail and washer	845.85
T. 59 N., R. 16 W., in S 1/2 sec. 26, 51 ft. N. and 127 ft. E. from crossroads, in root on N. side of 20-in. black-oak tree; crossed nails	745.97
T. 59 N., R. 16 W., in NW 1/4 sec. 34, in pier on upstream side of W. end of bridge over Chariton River, on bolt head; chiseled cross	717.10
T. 59 N., R. 16 W., 775 ft. W. of quarter cor. between secs. 27 and 28, 545 ft. E. of bridge over Chariton River drainage ditch, 13 ft. N. and 18 ft. E. from rd. corner SE.-W., in concrete post; standard tablet stamped "1554 E R A 1935 712"	711.575
T. 59 N., R. 16 W., center sec. 29, 20 ft. S. and 100 ft. W. from crossroads, 18 ft. N. and 1 ft. E. from NW. corner of church, in root on SW. side of 1 1/2-in. elm tree; copper nail and washer	762.39
T. 59 N., R. 16 W., near E. sixteenth cor. sec. 30, 21 ft. S. and 70 ft. W. from Atchison, Topeka & Santa Fe Ry. at rd. crossing, on center of N. side of concrete base of signal box; chiseled square	788.01
Ethel, 25 ft. N. of school, in NW. corner of yard, in concrete post; standard tablet stamped "Prim Trav Sta No 67 F 1924 849"	848.693
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., Rs. 16 and 17 W., about 0.1 mi. N. of quarter cor. between secs. 19 and 24, 6 ft. S. and 3 ft. W. from fence corner, 24 ft. W. of rd., in root on NE. side of 1 1/2-in. cottonwood tree; copper nail and washer	794.49
T. 59 N., Rs. 16 and 17 W., on line between secs. 13 and 18, on SE. concrete wing wall of bridge; chiseled square	777.05
T. 59 N., Rs. 16 and 17 W., near N. sixteenth cor. between secs. 13 and 18, 9 ft. S. and 60 ft. E. from NE. corner of farmhouse of Kenneth Roger, 54 ft. W. of rd., in root on W. side of 8-in. walnut tree; copper nail and washer	863.11
Ethel, 3 mi. N. of, W. quarter cor. sec. 7, T. 59 N., R. 16 W., 30 ft. N. and 4 ft. E. from abandoned T-rd. E., 9 ft. N. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 66 F 1924 810"	810.317
T. 59 N., Rs. 16 and 17 W., on line between secs. 7 and 12, 260 ft. S. and 20 ft. W. from T-rd. W., in root on E. side of 30-in. elm tree; crossed nails	820.82
T. 59 N., Rs. 16 and 17 W., on line between secs. 1 and 6, 60 ft. N. of rd. corner S.-E., 27 ft. S. and 10 ft. W. from SW. corner of farmhouse of H. F. Berghan, in root on NE. side of 10-in. white-oak tree; copper nail and washer	933.93
T. 59 N., R. 16 W., in N 1/2 sec. 6, 54 ft. N. and 115 ft. W. from T-rd. E. to Elmer, 24 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 2.)

3. FROM KIRKSVILLE QUADRANGLE AT SEC. 15, T. 60 N., R. 15 W.,
SOUTHEAST INTO ATLANTA QUADRANGLE AT SEC. 19, T. 60 N.,
R. 14 W. (by B. A. Barnes in 1936)
(Continued from Kirksville quadrangle; see line 4.)

Crossroads, 54 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 T-rd. N., 10 ft. E. of small wooden culvert, in root on N. side of 12-in. white-oak tree; copper nail and washer	885.55
T. 60 N., R. 15 W., center sec. 23, 22 ft. S. and 12 ft. E. from rd. at fences N. and S., in concrete post; standard tablet stamped "1550 E R A 1935 892"	892.247

T. 60 N., R. 15 W., W. sixteenth cor. sec. 24, 21 ft. N. and 250 ft. W. from T-rd. S., 4 ft. S. and 9 ft. W. from fence corner, in root on W. side of 10-in. elm tree; copper nail and washer	<u>Feet</u> 921.63
Junction of private rd. N., at base of telephone pole; surface of ground	927.7
T. 60 N., R. 14 W., near center sec. 19, 14 ft. S. and 18 ft. W. from T-rd. N., in root on NW. side of 24-in. black-oak tree; copper nail and washer	889.77

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, 18 ft. E. of rd., in root on NW. side of 16-in. elm tree; crossed nails	763.65
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	808.70
Top of hill, 70 ft. E. of rd., in SW. side of 10-in. maple tree; crossed nails	895.56
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 E. side of 10-in. white-oak tree; copper nail and washer	835.49
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	836.47
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 F 1924 770"	770.151

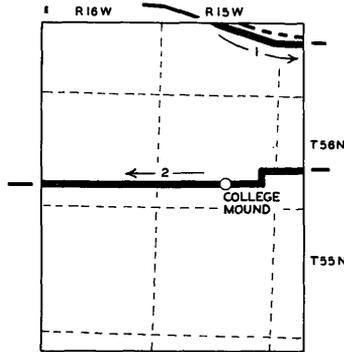
(For balance in Bucklin quadrangle, see line 3.)

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 14-in. elm tree; copper nail and washer	875.64
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 4 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, Laclède to Macon.

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.)

	<u>Feet</u>
T. 57 N., R. 15 W., in W 1/2 sec. 16, at bridge 76.68 over creek, on top of S. end of parapet wall of E. concrete abutment; chiseled square	758.85
Bevier, 45 ft. W. of sta., 70 ft. N. of main track; iron post stamped "Prim Trav Sta No 72 F 1924 Mo 791"	790.953
Bevier, 0.4 mi. E. of sta., 300 ft. E. of milepost 75, at N. right-of-way fence, in root on S. side of 30-in. elm tree; copper nail and washer	801.20
T. 57 N., R. 15 W., about 0.1 mi. S. of quarter cor. between secs. 13 and 14, on N. side of track opposite rd. corner S. of track, 10 ft. N. of right-of-way fence, in N.-S. fence line, in root (3 in. underground) on S. side of S. one of two small oak trees; copper nail and washer	847.89
T. 57 N., R. 14 W., in SW 1/4 sec. 18, at W. abutment of bridge 72.66 over East Fork of Chariton 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"	774.269
T. 57 N., R. 14 W., about 150 ft. W. of line between secs. 17 and 18, 500 ft. E. of private rd. crossing, 300 ft. E. of milepost 72, 10 ft. N. of right-of-way fence, in root on NW. side of 12-in. oak tree; copper nail and washer	794.27

(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. 30, T. 56 N., R. 16 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 15 ft. E. from crossroads, in fence corner, on limestone outcrop; chiseled square	769.99
Excello, 3 mi. W. of, on line between secs. 24 and 25, T. 56 N., R. 15 W., at bridge over East Fork of Chariton River, on rivet at E. end of S. banister; chiseled cross	726.78
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"	725.144
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	849.70
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	844.87
College Mound, 57 ft. N. and 36 ft. W. from NW. corner of tile school-house, 4 ft. N. and 34 ft. E. from T-rd. W., in concrete post; standard tablet stamped "T T 8 W 1936"	843.832
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	800.08
College Mound, 1.8 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	789.13
College Mound, 2.6 mi. W. of, 30 ft. S. and 500 ft. W. from T-rd. S., in root on N. side of 30-in. maple tree; copper nail and washer	718.06
T. 56 N., R. 15 and 16 W., cor. secs. 25, 30, 31, and 36, 28 ft. N. and 34 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 9 W 1936"	782.175

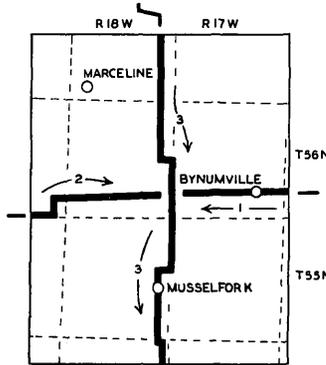
T. 56 N., R. 16 W., on line between secs. 26 and 35, 80 ft. S. and 50 ft. W. from State Highway 3 at E.-W. crossroad, in front of store of Harley Cleaver, on concrete foundation of gasoline pump; chiseled square	Feet 757.19
T. 56 N., R. 16 W., W. sixteenth cor. between secs. 27 and 34, 1.3 mi. W. of State Highway 3, 100 ft. SE. of dwelling of R. P. 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	714.46
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"	664.778
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	671.444
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	672.28
Bridge over New Chariton River, 1.3 mi. S. and 0.5 mi. W. from, on private rd. of Harry Cooper, 5 ft. S. of turn in rd. toward dwelling, in fence line, in root on W. side of 24-in. pecan tree; copper nail and washer	666.56
T. 56 N., R. 16 W., near center sec. 29, 60 ft. S. and 20 ft. E. from dwelling of G. A. Ross, in fence line, in root on S. side of 22-in. hickory tree; copper nail and washer	668.63
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	671.40
T. 56 N., R. 16 W., center sec. 30, 30 ft. S. of rd., 3 ft. E. of fence, in concrete post; standard tablet stamped "T T 11 W 1936"	676.450
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	699.50

(Continued in Marceline 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, Laclède to Macon.

MARCELINE QUADRANGLE
(Latitude 39°30'-39°45'; longitude 92°45'-93°00')

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)

(Continued from College Mound quadrangle; see line 2.)

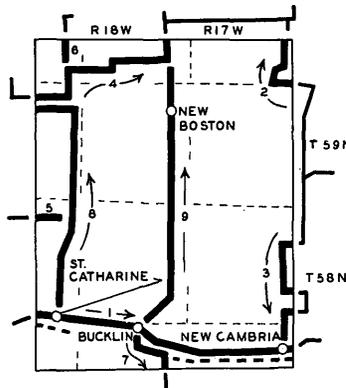
T. 56 N., R. 17 W., in E 1/2 sec. 25, 350 ft. E. of Dewey School, 40 ft. N. and 80 ft. E. from T-rd. N., in root on S. side of 26-in. elm tree; crossed nails	Feet 731.87
Bynumville, 1 mi. E. of, 55 ft. N. and 20 ft. E. from T-rd. W., in root on E. side of triple maple tree; copper nail and washer	691.00
Bynumville, at N. limits of, 36 ft. S. and 31 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 44 F 1924"	766.805
Bynumville, 0.5 mi. N. of, along State Highway 129, 30 ft. S. and 55 ft. W. from junction of rd. W., in root on N. side of 23-in. elm tree; copper nail and washer	774.07
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	761.91
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	768.56

	Feet
T. 56 N., R. 17 W., cor. secs. 28, 29, 32, and 33, 3 ft. S. and 16 ft. E. from T-rd. W., in concrete post; standard tablet stamped "T T 12 W 1936"	741.428
T. 56 N., R. 17 W., on line between secs. 30 and 31, 0.2 mi. W. of T-rd. S., 50 ft. S. of rd., in root on N. side of 30-in. maple tree; copper nail and washer	806.31
T. 56 N., R. 17 W., on line between secs. 30 and 31, 100 ft. N. and 20 ft. E. from T-rd. S., 8 ft. E. of driveway, in top of stump; crossed nails	837.53
T. 56 N., Rs. 17 and 18 W., cor. secs. 25, 30, 31, and 36, 30 ft. N. and 50 ft. W. from T-rd. N., in root on NE. side of 16-in. elm tree; copper nail and washer	762.72
T. 56 N., R. 18 W., quarter cor. between secs. 25 and 36, 30 ft. S. and 20 ft. W. from T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 53 F 1924"	796.361
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. 55 N., R. 19 W., N. cor. secs. 1 and 2, 8 ft. S. and 20 ft. W. from T-rd. S., 185 ft. W. of T-rd. N., on center of S. head wall of concrete culvert; chiseled square	811.27
T. 56 N., R. 19 W., cor. secs. 25, 26, 35, and 36, 25 ft. S. and 30 ft. E. from T-rd. S., in root on S. side of 14-in. elm tree; copper nail and washer	820.58
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 23 F 1924"	808.977
T. 56 N., Rs. 18 and 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. 18 W., on line between secs. 30 and 31, at SE. corner of bridge over Long Branch; surface of floor	741.8
T. 56 N., R. 18 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	776.87
T. 56 N., R. 18 W., on line between secs. 29 and 32, 140 ft. NW. of farmhouse, in root on N. side of twin 8-in. white-oak tree; crossed nails	778.35
T. 56 N., R. 18 W., near W. sixteenth cor. between secs. 28 and 33, 20 ft. N. and 80 ft. E. from rd. corner N.-E., in root on E. side of 16-in. elm tree; copper nail and washer	764.84
T. 56 N., R. 18 W., near E. sixteenth cor. between secs. 28 and 33, 25 ft. E. of rd. corner S.-W., 3 ft. SE. of fence corner, in concrete post; standard tablet stamped "19 B 1937"	818.779
T. 56 N., R. 18 W., near center sec. 27, 60 ft. N. and 15 ft. E. from T-rd. E., on E. end of concrete culvert; chiseled square	741.65
T. 56 N., R. 18 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	695.51
3. FROM BUCKLIN QUADRANGLE AT SEC. 13, 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. V. 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. 23, 24, 25, and 26, 30 ft. N. and 50 ft. W. from rd. forks, in root on SE. side of 10-in. hackberry tree; copper nail and washer	845.37
Marceline, 3.4 mi. E. of (measured from State Highway 5), along County Route 2, 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 post, in concrete post; standard tablet stamped "Prim Trav Sta No 51 F 1924"	778.424
Rd. forks, 25 ft. N. and 30 ft. E. from, in top of small stump; crossed nails	840.62
T. 57 N., R. 18 W., in SE 1/4 sec. 35, 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-rd. N., 20 ft. N. and 20 ft. E. from, at base of corner fence post; surface of ground	807.9
T. 56 N., R. 18 W., N. quarter cor. sec. 2, 20 ft. S. and 65 ft. E. from T-rd. S., in root on W. side of 14-in. post-oak tree; copper nail and washer	811.14
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. N., in front 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 52 F 1924"	761.334
T. 56 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 SW. 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., Rs. 17 and 18 W., cor. secs. 13, 18, 19, and 24, 20 ft. S. and 80 ft. W. from T-rd. W., in root on N. side of 12-in. sycamore tree; copper nail and washer	729.80
T. 56 N., R. 17 W., W. quarter cor. sec. 19, 230 ft. N. of T-rd. S., on SW. corner of concrete bridge; chiseled square	722.06

	<u>Feet</u>
T. 56 N., Rs. 17 and 18 W., cor. secs. 19, 24, 25, and 30, 50 ft. S. and 20 ft. E. from crossroads, in root on N. side of 14-in. elm tree; copper nail and washer	798.48
T. 56 N., Rs. 17 and 18 W., cor. secs. 25, 30, 31, and 36, 30 ft. N. and 50 ft. W. from T-rd. N., in root on NE. side of 16-in. elm tree; copper nail and washer	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; chiseled square	762.79
T. 55 N., Rs. 17 and 18 W., N. cor. secs. 1 and 6, 200 ft. S. of T-rd. S., on E. end of concrete culvert; chiseled square	739.64
T. 55 N., Rs. 17 and 18 W., 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	783.50
T-rd. W., 12 ft. N. and 30 ft. W. from, in root on S. side of 8-in. post-oak tree; crossed nails	787.48
T. 55 N., R. 18 W., E. sixteenth cor. between secs. 1 and 12, 15 ft. N. and 20 ft. E. from rd. corner S.-E. and private rd. W., in root on S. side of 6-in. post-oak tree; copper nail and washer	807.53
T. 55 N., R. 18 W., E. sixteenth cor. between secs. 12 and 13, 30 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 54 F 1924"	771.901
T. 55 N., R. 18 W., in SE 1/4 sec. 13, 65 ft. S. and 15 ft. E. from T-rd. E., in root on W. side of 12-in. wild-cherry tree; copper nail and washer	774.62
Musselfork, 0.8 mi. N. of, at crossroads, 25 ft. E. of rd. N., in root on SE. side of 20-in. elm tree; crossed nails	754.19
Musselfork, at N. limits of, center sec. 24, T. 55 N., R. 18 W., 120 ft. S. and 30 ft. E. from T-rd. E., on W. end of concrete walk to dwelling of W. T. Martin; chiseled square	775.21
Musselfork, 0.2 mi. S. of, SE. of crossroads, in root on W. side of 28-in. post-oak tree; crossed nails	765.89
Musselfork, 1.2 mi. S. of, quarter cor. between secs. 25 and 36, T. 55 N., R. 18 W., 25 ft. S. and 15 ft. E. from T-rd. N., in root on S. side of large burr-oak tree; copper nail and washer	742.03
T. 55 N., R. 18 W., cor. secs. 25, 26, 35, and 36, about 300 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 1924"	766.690
T. 54 N., R. 18 W., N. cor. secs. 1 and 2, 20 ft. S. and 15 ft. W. from T-rd. S., 20 ft. S. and 150 ft. W. from T-rd. N., on S. end of iron pipe culvert; chiseled square	737.78
T. 54 N., R. 18 W., quarter cor. between 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. 54 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

BUCKLIN QUADRANGLE
(Latitude 39°45'-40°00'; longitude 92°45'-93°00')

Linn and Macon Counties



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.)

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 1924 1920 Mo 802"	801.733
T. 58 N., R. 19 W., in SE 1/4 sec. 36, 20 ft. N. of fence, in field N. of track, in root on NW. side of 12-in. hickory tree; copper nail and washer	788.06

	<u>Feet</u>
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 97.94 over East Yellow Creek; chiseled square	756.25
T. 57 N., R. 18 W., in NE 1/4 sec. 6, 54 ft. S. and 75 ft. E. from private rd. crossing, in front of dwelling S. of tracks, 4 ft. S. of fence line, in root on NE. side of twin 24-in. elm tree; copper nail and washer	770.15
T. 57 N., R. 18 W., in NE 1/4 sec. 5, NE. of rd. crossing; iron post stamped "Prim Trav Sta No 36 F 1924 1920 Mo 766"	764.995
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 96.41 over Sights Branch; chiseled square	763.38
T. 57 N., R. 18 W., in NE 1/4 sec. 4, 60 ft. S. and 90 ft. W. 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 NW. side of 12-in. oak tree; copper nail and washer	801.25
T. 57 N., R. 18 W., in NE 1/4 sec. 3, at W. end of siding, N. of main track, 4 ft. N. of N. rail, in front of telephone booth, on top of NW. corner of concrete base of semaphore (abandoned); chiseled square	861.45
T. 57 N., R. 18 W., in NE 1/4 sec. 3, 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	879.89
Bucklin, in NE. corner of schoolyard, 150 ft. S. of S. end of viaduct over R.R.; iron post stamped "Prim Trav Sta No 37 F 1924 1920 Mo 910"	909.697
T. 57 N., R. 18 W., in NE 1/4 sec. 11, N. of R.R., 130 ft. N. of fence line, in root on N. side of N. one of two small cherry trees; copper nail and washer	848.75
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	837.96
T. 57 N., R. 17 W., in NW 1/4 sec. 7, on top of N. end of parapet wall of W. abutment of bridge 91.70 over Mussel Fork Creek; chiseled square	779.77
T. 57 N., R. 17 W., in NW 1/4 sec. 8, 190 ft. W. of private rd. crossing at milepost 91, N. of R.R., 10 ft. N. of fence line, in root (4 in. under ground) on SW. side of 12-in. oak tree; copper nail and washer	806.78
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 1924 1920 Mo 817"	816.302
T. 57 N., R. 17 W., in NW 1/4 sec. 10, on top of S. retaining wall of E. abutment of bridge 88.89 over Brush Creek; chiseled square (U.S.C.&G.S.alsv.)	782.912
T. 57 N., R. 17 W., in NE 1/4 sec. 10, 60 ft. S. and 75 ft. E. from private rd. crossing, 10 ft. S. of fence line, in root on N. side of W. one of two small oak trees; copper nail and washer	832.21
T. 57 N., R. 17 W., in NE 1/4 sec. 11, 90 ft. S. of rd. crossing, W. of rd., in root on NW. side of 14-in. elm tree; copper nail and washer	803.44
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	825.22
New Cambria, at E. corner of public park, 12 ft. SW. of W. corner of Jones and Main Streets; iron post stamped "Prim Trav Sta No 40 F 1924 1920 Mo 856"	855.177

(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)

(Continued 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	814.95
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 1924"	970.953
Goldsberry, 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	986.65
Goldsberry, 1 mi. N. of W. sixteenth cor. between secs. 26 and 35, T. 60 N., R. 17 W., 36 ft. S. and 85 ft. W. from crossroads, 48 ft. N. and 3 ft. E. from NE. corner of farmhouse, in root on N. side of 26-in. maple tree; copper nail and washer	982.84
T. 60 N., R. 17 W., on line between secs. 26 and 35, 33 ft. N. and 24 ft. E. from T-rd. E.; 42 ft. S. and 31 ft. W. from farmhouse, in root on N. side of twin 24-in. maple tree; copper nail and washer	987.05
T. 60 N., R. 17 W., in SW 1/4 sec. 24, 35 ft. E. of rd., in root on N. side of 24-in. white-oak tree; copper nail and washer	943.79

(Continued in Winigan quadrangle; see line 2.)

3. FROM ELMER QUADRANGLE AT SEC. 12, T. 58 N., R. 17 W., SOUTH TO NEW CAMBERIA (by B. A. Barnes in 1936)

(Continued 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. W. of gate, on SE. corner of concrete sidewalk; chiseled square	880.73
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	871.21
T. 58 N., R. 17 W., near center sec. 24, 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	769.08

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

T. 58 N., R. 17 W., near W. sixteenth cor. sec. 36, at junction of rd. S. and abandoned rd. NE., in root on NW. side of twin 12-in. locust tree; copper nail and washer	Feet 876.06
T. 58 N., R. 17 W., on S. line sec. 36, 90 ft. S. and 105 ft. E. from T-rd. S., in root on S. side of twin 12-in. white-oak tree; crossed nails	880.33 825.969
U.S.C. & G.S. standard disk stamped "Q 120 1935"	
4. FROM LINNEUS QUADRANGLE AT SEC. 2, T. 59 N., R. 19 W., NORTH AND EAST TO SEC. 25, T. 60 N., R. 18 W. (by F. Y. Brown and H. B. Pyle in 1937) (Continued from Linneus quadrangle; see line 5.)	
T. 59 N., R. 19 W., in SW 1/4 sec. 1, 800 ft. W. of County Route C at rd. N., 40 ft. S. of SW. corner of farmhouse of H. S. Simpson, in root on W. side of 12-in. cedar tree; crossed nails	887.66
T. 59 N., R. 19 W., in NW 1/4 sec. 1, 60 ft. S. and 15 ft. E. from T-rd. W., on center of W. head wall of concrete culvert; chiseled square	904.74
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. N., on N. end of iron pipe culvert; (mark not described)	917.32
T. 60 N., R. 19 W., near center sec. 36, 25 ft. S. of T-rd. N., 15 ft. W. of private rd., in NE. corner of farmyard, in root on W. side of 26-in. maple tree; copper nail and washer	920.38
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 1924"	888.276
T. 60 N., Rs. 18 and 19 W., near quarter cor. between secs. 25 and 30, 245 ft. E. of T-rd. S., 20 ft. N. of rd., 45 ft. SW. of farmhouse, in root on N. side of 10-in. cedar tree; copper nail and washer	916.98
T. 60 N., R. 18 W., near quarter cor. between secs. 29 and 30, 475 ft. W. of T-rd. N., 45 ft. S. of rd., in root on W. side of 16-in. elm tree; copper nail and washer	906.96
T. 60 N., R. 18 W., near center sec. 29, 740 ft. E. of T-rd. W., in NW. corner of churchyard, in root on N. side of 10-in. elm tree; copper nail and washer	952.55
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 1924"	910.708
T. 60 N., R. 18 W., on line between secs. 21 and 28, 10 ft. S. of rd., in SW. corner of bridge; spike	865.61
T. 60 N., R. 18 W., near cor. secs. 21, 22, 27, and 28, 25 ft. S. and 1,000 ft. E. from crossroads, in root on N. side of 48-in. cottonwood tree; copper nail and washer	956.45
T. 60 N., R. 18 W., near cor. secs. 22, 23, 26, and 27, 720 ft. S. and 25 ft. W. from abandoned rd. E., 564 ft. N. of T-rd. E., in root on S. side of 40-in. locust tree; copper nail and washer	981.90
T. 60 N., R. 18 W., quarter cor. between secs. 25 and 26, 20 ft. N. and 25 ft. E. from T-rd. W., 200 ft. E. of State Highway 11, in fence line, in concrete post; standard tablet stamped "Prim Trav Sta No 58 F 1924"	967.664
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. E. from crossroads, in farmyard, in root on S. side of 14-in. white-oak tree; copper nail and washer	826.42
T. 58 N., R. 19 W., cor. secs. 1, 2, 11, and 12, 15 ft. S. and 15 ft. W. from State Highway 11 at rd. W., on center of S. head wall of concrete culvert; chiseled square	850.89
T. 58 N., R. 19 W., quarter cor. between secs. 1 and 2, 130 ft. S. and 40 ft. W. from T-rd. S., 33 ft. SE. of church, in concrete post; standard tablet stamped "Prim Trav Sta No 7 F 1924"	896.576
6. FROM WINIGAN QUADRANGLE AT SEC. 24, 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.)	
T. 60 N., R. 19 W., N. sixteenth cor. sec. 25, 230 ft. S. of T-rd. W., 15 ft. W. of rd., in root on E. side of large locust tree; copper nail and washer	944.55
7. FROM BUCKLIN SOUTH ALONG STATE HIGHWAY 129 TO JUNCTION OF U.S. HIGHWAY 36, THENCE EAST ALONG STATE HIGHWAY 129 (U.S. HIGHWAY 36) ABOUT 1.2 MILES, THENCE 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 "K 120 1935"	
Bucklin, 0.5 mi. 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	887.137 906.09
Bucklin, 1.5 mi. S. of, 155 ft. N. and 20 ft. E. from junction of U.S. Highway 36, on E. head wall of concrete culvert; chiseled square	875.15
Bucklin, 1.5 mi. S. and 0.5 mi. 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	884.04

Bucklin, 1.5 mi. S. and 1.2 mi. E. from, W. sixteenth cor. between secs. 12 and 13, T. 57 N., R. 18 W., 50 ft. N. and 35 ft. W. from crossroad, in concrete post; standard tablet stamped "Prim Trav Sta No 36 F 1924"

Feet
862.569

(Continued in Marceline quadrangle; see line 3.)

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)

U.S.C. & G.S. standard disk stamped "G 120 1935"	802.236
St. Catharine, at N. limits of, SW. of crossroad, on E. head wall of concrete culvert; chiseled square	836.81
St. Catharine, 0.5 mi. N. of, 17 ft. N. and 27 ft. E. from crossroad, on N. head wall of concrete culvert; chiseled square	791.54
St. Catharine, 1 mi. NE. of, 12 ft. N. and 20 ft. E. from crossroad, on N. head wall of concrete culvert; chiseled square	838.33
T. 58 N., R. 19 W., S. sixteenth cor. between secs. 23 and 24, 12 ft. S. and 20 ft. W. from junction of rd. W., on S. head wall of concrete culvert; chiseled square	819.93
T. 58 N., R. 19 W., quarter cor. between secs. 23 and 24, 12 ft. S. and 35 ft. W. from junction of rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 8 F 1924"	856.698
T. 58 N., R. 19 W., quarter cor. between secs. 13 and 14, 20 ft. E. of highway at offset rds. E. and W., on N. head wall of concrete culvert; chiseled square	872.04
T. 58 N., R. 19 W., N. sixteenth cor. between secs. 11 and 12, 12 ft. N. and 20 ft. E. from junction of rd. E., on N. head wall of concrete culvert; chiseled square	881.24
T. 58 N., R. 19 W., near cor. secs. 1, 2, 11, and 12, 12 ft. S. and 20 ft. W. from junction of rd. W., on S. head wall of concrete culvert; chiseled square	850.89
T. 58 N., R. 19 W., in W 1/2 sec. 1, 40 ft. SE. of junction of rd. W., on top of highway right-of-way post; painted square	894.27
T. 58 N., R. 19 W., N. sixteenth cor. sec. 1, 30 ft. N. and 18 ft. W. from junction of rd. E., on W. head wall of concrete culvert; chiseled square	880.97
T. 59 N., R. 19 W., quarter cor. between secs. 25 and 36, 12 ft. S. and 18 ft. W. from crossroad, on S. head wall of concrete culvert; chiseled square	889.80
T. 59 N., R. 19 W., center sec. 25, 12 ft. N. and 20 ft. E. from junction of rd. E., on N. head wall of concrete culvert; chiseled square	883.98
T. 59 N., R. 19 W., center sec. 24, 23 ft. S. and 43 ft. W. from crossroad, in concrete post; standard tablet stamped "Prim Trav Sta No 6 F 1924"	887.829
T. 59 N., R. 19 W., quarter cor. between secs. 13 and 24, 7 ft. N. and 20 ft. E. from crossroad, on N. head wall of concrete culvert; chiseled square	911.17
T. 59 N., R. 19 W., near center sec. 13, 15 ft. N. and 23 ft. E. from junction of rd. E., on N. head wall of concrete culvert; chiseled square	887.95
T. 59 N., R. 19 W., quarter cor. between secs. 12 and 13, 20 ft. N. and 15 ft. E. from junction of rd. W., on E. head wall of concrete culvert; chiseled square	885.57
T. 59 N., R. 19 W., near quarter cor. between secs. 1 and 12, 30 ft. NW. of junction of County Route C, on W. head wall of concrete culvert; chiseled square	897.32
T. 59 N., R. 19 W., in SW 1/4 sec. 1, 17 ft. N. and 50 ft. W. from junction of rd. N., on N. end of iron pipe culvert; painted square	863.78
T. 59 N., R. 19 W., on line between secs. 2 and 11, on SW. corner of bridge over Yellow Creek; chiseled square	795.99

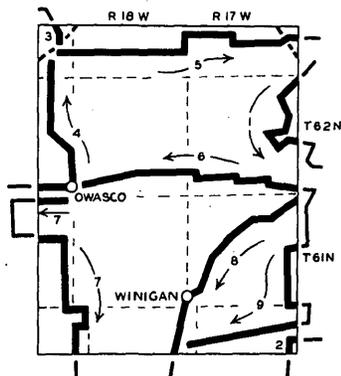
9. FROM BUCKLIN NORTH ALONG STATE HIGHWAY 129 TO SEC. 1, T. 58 N., R. 18 W., THENCE NORTH ALONG OTHER ROADS TO SEC. 13, T. 59 N., R. 18 W., THENCE NORTH ALONG STATE HIGHWAY 129 TO NEW BOSTON, THENCE NORTH ALONG STATE HIGHWAY 11 TO SEC. 25, T. 60 N., R. 18 W. (by W. V. Kennedy in 1937)

Bucklin, at Atchison, Topeka & Santa Fe Ry. sta., in front of operator's window; top of westernmost rail	921.5
Bucklin, 0.5 mi. NE. of, 12 ft. S. and 120 ft. E. from junction of rd. W., on center of S. head wall of concrete culvert; chiseled square	883.50
T. 58 N., R. 18 W., in NE 1/4 sec. 35, 20 ft. W. of Atchison, Topeka & Santa Fe Ry. at rd. crossing, on S. corner of concrete base of semaphore; chiseled square	910.74
Bucklin, 2 mi. N. of, 12 ft. N. and 20 ft. E. from junction of rd. E., on N. end of iron pipe culvert; chiseled square	925.42
T. 58 N., R. 18 W., in NE 1/4 sec. 26, 30 ft. S. and 17 ft. E. from junction of rd. W., on E. end of iron pipe culvert; chiseled square	915.40
Bucklin, 3 mi. N. of, 12 ft. N. and 30 ft. E. from junction of private rd. E., on N. end of iron pipe culvert; chiseled square	923.14
T. 58 N., R. 18 W., on line between secs. 13 and 24, 15 ft. S. and 18 ft. W. from junction of rd. W., on W. end of iron pipe culvert; painted square	933.92
T. 58 N., R. 18 W., cor. secs. 13, 14, 23, and 24, 0.2 mi. W. of highway, 30 ft. N. and 15 ft. E. from rd. corner N.-E., in concrete post; standard tablet stamped "Prim Trav Sta No 62 F 1924"	909.859
T. 58 N., R. 18 W., W. sixteenth cor. sec. 13, 20 ft. S. and 17 ft. W. from junction of rd. W., on W. end of iron pipe culvert; chiseled square	931.47
T. 58 N., R. 18 W., in NW 1/4 sec. 13, NE. of junction of rd. NE., on N. end of iron pipe culvert; painted square	943.86

	<u>Feet</u>
T. 58 N., R. 18 W., W. sixteenth cor. sec. 12, 90 ft. S. and 85 ft. E. from junction of rd. W., in farmyard of F. E. Hockert, on N. side of concrete platform of cistern; chiseled square	936.27
T. 58 N., R. 18 W., on line between secs. 1 and 12, 20 ft. N. and 20 ft. E. from crossroad, on N. end of iron pipe culvert; painted square	920.23
T. 58 N., R. 18 W., in SW 1/4 sec. 1, 190 ft. SW. of junction of rd. W., 30 ft. NW. of highway, at gate, on top of highway right-of-way post; painted square	952.24
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	893.73
T. 59 N., R. 18 W., S. cor. secs. 35 and 36, 50 ft. N. and 25 ft. W. from T-rd. N., 50 ft. N. and 85 ft. W. from T-rd. S. at N. cor. secs. 1 and 2, T. 58 N., R. 18 W., in concrete post; standard tablet stamped "Prim Trav Sta No 61 F 1924"	877.616
T. 59 N., R. 18 W., cor. secs. 25, 26, 35, and 36, 670 ft. N. and 15 ft. W. from crossroads, 50 ft. N. of gate, in root on E. side of 12-in. locust tree; copper nail and washer	956.38
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	953.62
T. 59 N., R. 18 W., quarter cor. between secs. 23 and 24, 25 ft. W. of rd. Jog S.-E., in root on E. side of 30-in. post-oak tree; copper nail and washer	928.78
T. 59 N., R. 18 W., cor. secs. 13, 14, 23, and 24, 25 ft. N. and 60 ft. E. from T-rd. N., 140 ft. W. of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 60 F 1924"	882.373
T. 59 N., R. 18 W., E. sixteenth 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	953.51
T. 59 N., R. 18 W., in NE 1/4 sec. 13, 350 ft. S. of farmhouse, 115 ft. E. of highway, in root on W. side of 22-in. elm tree; copper nail and washer	963.29
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	955.09
New Boston, 0.4 mi. SE. of, 25 ft. S. of junction of rd. SE., on SW. end of iron pipe culvert; painted square	969.28
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 F 1924"	964.449
New Boston, 0.5 mi. W. of, 18 ft. N. of junction of State Highway 11, on N. end of concrete head wall of culvert; chiseled square	925.66
Tps. 59 and 60 N., R. 18 W., cor. secs. 1, 2, 35, and 36, 18 ft. S. and 15 ft. E. from crossroad, on center of E. head wall of concrete culvert; chiseled square	901.14
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	940.99

For an additional level line along Chicago, Burlington & Quincy R.R., refer to United States Coast and Geodetic Survey second-order line, Laclède to Macon.

WINIGAN QUADRANGLE
 (Latitude 40°00'-40°15'; longitude 92°45'-93°00')
 Adair, Linn, Macon, and Sullivan Counties



1. FROM KIRKSVILLE QUADRANGLE AT SEC. 1, T. 62 N., R. 17 W.,
 SOUTHWEST, SOUTH, AND SOUTHEAST INTO KIRKSVILLE QUADRANGLE
 AT SEC. 24, T. 62 N., R. 17 W. (by R. W. Mattox in 1935)
 (Continued from Kirksville quadrangle; see line 1.)

	<u>Feet</u>
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 18-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 NW 1/4 sec. 12, N. of rd. corner, in N.-S. fence line, in root on S. side of 14-in. oak tree; copper nail and washer	961.36
T. 62 N., R. 17 W., in S 1/2 sec. 12, 150 ft. N. of cattle pass, 50 ft. W. of rd., in root on E. side of 24-in. oak tree; copper nail and washer	933.06
T. 62 N., R. 17 W., in N 1/2 sec. 13, on SE. wing wall of bridge over Hog Creek; chiseled square	803.17
T. 62 N., R. 17 W., W. sixteenth cor. sec. 13, 150 ft. W. of dwelling at top of hill, in root on E. side of 24-in. oak tree; copper nail and washer	920.17
T. 62 N., R. 17 W., in SW 1/4 sec. 13, 0.2 mi. E. and 0.5 mi. N. from Pure Air, 35 ft. N. and 50 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 1543 E R A 1935"	959.479
T. 62 N., R. 17 W., on line between secs. 13 and 14, 80 ft. S. of rd., in root on N. side of 24-in. oak tree; copper nail and washer	958.08
T. 62 N., R. 17 W., in NE 1/4 sec. 23, 400 ft. E. of dwelling, 75 ft. S. of rd., in N.-S. fence line, in root on S. side of 10-in. oak tree; copper nail and washer	965.50
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. 23, on top of ridge in pasture, 40 ft. S. of fence, in root on E. 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. N. 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. 24, 30 ft. N. of fence, in root on S. side of 24-in. oak tree; copper nail and washer	957.78
T. 62 N., R. 17 W., in S 1/2 sec. 24, in fence line N. of rd., in root on S. side of 20-in. oak tree; copper nail and washer	957.61

(Continued in Kirksville quadrangle; see line 1.)

2. FROM EUCKLIN QUADRANGLE AT SEC. 24, 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 1936)
 (Continued from Eucklin quadrangle; see line 2.)

T. 60 N., R. 17 W., in NE 1/4 sec. 23, 70 ft. S. of dwelling, 20 ft. S. and 25 ft. E. from rd. fork E., 15 ft. S. of corner fence post, in root on W. side of 12-in. oak tree; copper nail and washer	933.78
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T. 60 N., R. 17 W., about 0.2 mi. W. of cor. secs. 13, 14, 23, and 24, 6 ft. S. and 25 ft. E. from N.-S. rd. at fence, in concrete post; standard tablet stamped "T 1546 E R A 1935"	Feet 917.236
T. 60 N., R. 17 W., in S 1/2 sec. 14, 400 ft. N. of rd. fork SE., in root on S. side of 18-in. elm tree; crossed nails	774.38
T. 60 N., R. 17 W., on line between secs. 11 and 14, 300 ft. S. and 20 ft. W. from T-rd. E., in root on NE. side of 48-in. elm tree; copper nail and washer	773.12

(Continued in Kirksville quadrangle; see line 4.)

3. FROM GREEN CITY QUADRANGLE IN SEC. 23, T. 63 N., R. 19 W.
(by D. R. Stewart in 1936)
(Continued from Green City quadrangle; see line 7.)

Concrete culvert, on SW. end of; chiseled square	975.52
T. 63 N., R. 19 W., in SE. cor. sec. 23, 0.2 mi. W. of Yellow Creek Baptist Church, NW. of crossroads; iron post stamped "Prim Trav Sta No 9 1910 Mo"	960.116
Reference mark, 30 ft. S. and 125 ft. W. from post, on top of S. head wall of concrete culvert; chiseled square	959.28
U.S.C. & G.S. standard disk stamped "C 17 1933"	920.959

4. FROM MILAN QUADRANGLE AT SEC. 35, T. 62 N., R. 19 W., EAST ABOUT
1 MILE, THENCE NORTH TO SEC. 26, T. 63 N., R. 19 W.
(by H. W. Gross in 1936)
(Continued from Milan quadrangle; see line 1.)

T. 62 N., R. 19 W., on line between secs. 26 and 35, 200 ft. N. of wind- ing rd. SW., 55 ft. N. and 20 ft. W. from rd. junction, in root on S. side of 14-in. white-oak tree; copper nail and washer	971.23
T. 62 N., R. 19 W., near cor. secs. 25, 26, 35, and 36, 25 ft. N. and 90 ft. E. from T-rd. S., in root on W. side of 18-in. post-oak tree; crossed nails	963.03
Owasco, quarter cor. between secs. 25 and 36, T. 62 N., R. 19 W., 25 ft. N. and 56 ft. E. from T-rd. N., in concrete post; standard tablet stamped "1559 E R A 1935"	1,003.537
Reference mark, 90 ft. E. of tablet, in root on N. side of 24-in. maple tree; copper nail and washer	1,007.78
T. 62 N., R. 19 W., N. sixteenth cor. sec. 25, 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	1,000.55
Rd. at drain, 50 ft. N. and 50 ft. W. from, in root on S. side of 28-in. cottonwood tree; crossed nails	929.71
T. 62 N., R. 19 W., about 0.2 mi. E. of cor. secs. 23, 24, 25, and 26, 15 ft. S. and 500 ft. W. from rd. corner S.-W., in root on NW. side of 30-in. post-oak tree; copper nail and washer	997.81
Small bridge, at NW. corner of, on top of wing wall; chiseled square	903.50
T. 62 N., R. 19 W., on line between secs. 23 and 24, 250 ft. S. and 45 ft. E. from crossroads, in root on W. side of 18-in. white-oak tree; copper nail and washer	965.62
Drain, 60 ft. N. and 25 ft. W. from, in root on E. side of 14-in. elm tree; crossed nails	884.35
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 SE. side of 16-in. elm tree; copper nail and washer	909.75
T. 62 N., R. 19 W., N. 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	895.16
T. 62 N., R. 19 W., near S. sixteenth cor. between secs. 11 and 12, at SW. corner of small bridge, on top of wing wall; chiseled square	894.46
T. 62 N., R. 19 W., quarter cor. between secs. 11 and 12, 270 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T 1560 E R A 1935"	964.434
Culvert, on E. head wall of; chiseled cross	926.06
T. 62 N., R. 19 W., quarter cor. between secs. 1 and 2, 30 ft. E. of T-rd. W., in root on W. side of 14-in. hedge tree; copper nail and washer	1,025.94
T. 62 N., R. 19 W., N. cor. secs. 1 and 2, 15 ft. N. and 50 ft. W. from T-rd. S., 15 ft. N. and 155 ft. W. from T-rd. N., in root on E. side of 24-in. elm tree; copper nail and washer	987.58
Small bridge, at NW. corner of, on top of wing wall; chiseled square	957.70
T. 63 N., R. 19 W., about 0.1 mi. N. of cor. secs. 25, 26, 35, and 36, at SW. corner of wooden bridge, in top of cap; copper nail and washer	931.28
U.S.C. & G.S. standard disk stamped "C 17 1933"	920.959

5. FROM SEC. 26, T. 63 N., R. 19 W., EAST INTO KIRKSVILLE QUADRANGLE
AT SEC. 25, T. 63 N., R. 17 W.
(by H. B. Pyle and F. Y. Brown in 1937)

T. 63 N., R. 19 W., in S 1/2 sec. 26, 90 ft. S. and 10 ft. W. from Chicago, Burlington & Quincy R.R. at rd. crossing, on NW. abutment of steel bridge over drain; chiseled square	924.49
T. 63 N., R. 19 W., E. sixteenth cor. between secs. 24 and 25, 150 ft. E. of Chicago, Burlington & Quincy R.R., 15 ft. N. and 220 ft. E. from T-rd. N., in root on S. side of 18-in. elm tree; copper nail and washer	939.69
T. 63 N., R. 19 W., on line between secs. 24 and 25, 12 ft. S. and 18 ft. E. from crossroads, on SE. end of concrete culvert; chiseled square	979.87

	<u>Feet</u>
T. 63 N., R. 18 W., W. sixteenth cor. between secs. 19 and 30, 15 ft. S. and 140 ft. E. from T-rd. S., on S. head wall of concrete culvert; chiseled square	1,009.15
T. 63 N., R. 18 W., cor. secs. 19, 20, 29, and 30, 80 ft. N. and 15 ft. W. from County Route A at crossroad, on W. head wall of concrete culvert; chiseled square	1,030.99
T. 63 N., R. 18 W., quarter cor. between secs. 20 and 29, 12 ft. N. and 100 ft. E. from T-rd. S., on N. head wall of concrete culvert; chiseled square	1,051.41
T. 63 N., R. 18 W., center sec. 29, 25 ft. S. and 12 ft. W. from T-rd. E., on W. head wall of concrete culvert; chiseled square	1,020.61
T. 63 N., R. 18 W., quarter cor. between secs. 28 and 29, 30 ft. N. and 30 ft. W. from T-rd. N., 9 ft. W. of fence, in concrete post; standard tablet stamped "1 P 1937"	1,030.924
T. 63 N., R. 18 W., S. sixteenth cor. between secs. 27 and 28, 25 ft. S. and 150 ft. W. from crossroads, in root on E. side of 12-in. elm tree; copper nail and washer	1,034.38
T. 63 N., R. 18 W., in S 1/2 sec. 27, 65 ft. NE. of NE. corner of school, 36 ft. S. of rd., in root on N. side of 40-in. oak tree; crossed nails	1,034.74
T. 63 N., R. 18 W., near S. sixteenth cor. between secs. 26 and 27, 25 ft. N. and 195 ft. W. from T-rd. E., in root on S. side of hedge-tree stump; copper nail and washer	1,032.40
Rd., 25 ft. E. of, in root on W. side of 48-in. maple tree; crossed nails	1,017.50
T. 63 N., R. 18 W., in W 1/2 sec. 23, 10 ft. S. and 160 ft. E. from T-rd. W., in root on W. side of 30-in. maple tree; copper nail and washer	968.27
T. 63 N., R. 18 W., near cor. secs. 23, 24, 25, and 26, 25 ft. W. of rd., in root on E. side of 36-in. maple tree; copper nail and washer	1,040.10
T. 63 N., R. 18 W., S. sixteenth cor. between secs. 25 and 26, 110 ft. S. and 30 ft. W. from T-rd. E., in root on N. side of 36-in. maple tree; copper nail and washer	1,026.58
T. 63 N., R. 18 W., S. sixteenth cor. sec. 25, 25 ft. S. and 20 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 8 1910 Mo"	1,034.967
T. 63 N., Rs. 17 and 18 W., S. sixteenth cor. between secs. 25 and 30, 25 ft. N. and 30 ft. W. from T-rd. W. and private rd. E., on concrete base of corner fence post; chiseled square	1,021.64
T. 63 N., Rs. 17 and 18 W., on line between secs. 25 and 30, 10 ft. E. of rd., in SE. pier of wooden bridge over deep drain; crossed nails	965.64
T. 63 N., Rs. 17 and 18 W., near cor. secs. 19, 24, 25, and 30, 15 ft. N. and 160 ft. E. from T-rd. E., in root on S. side of 16-in. elm tree; copper nail and washer	992.98
Rd. fork NE., 90 ft. N. and 20 ft. E. from, in root on W. side of 18-in. elm tree; crossed nails	1,023.37
T. 63 N., R. 17 W., on line between secs. 18 and 19, 27 ft. S. and 21 ft. E. from State Highway 6 at crossroad, on E. head wall of concrete culvert; chiseled square	976.47
T. 63 N., R. 17 W., near E. sixteenth cor. between secs. 17 and 20, 30 ft. S. and 90 ft. E. from junction of rd. NW., 21 ft. S. of State Highway 6, 528 ft. W. of junction of rd. S., on S. head wall of concrete culvert; chiseled square	1,017.20
T. 63 N., R. 17 W., in E 1/2 sec. 21, 20 ft. N. and 45 ft. W. from NW. corner of Union Church, 60 ft. S. and 30 ft. E. from State Highway 6 at rd. S., in concrete post; standard tablet stamped "P 2 1937"	1,015.004
T. 63 N., R. 17 W., in E 1/2 sec. 22, 30 ft. S. and 75 ft. E. from State Highway 6 at rd. N., on S. head wall of concrete culvert; chiseled square	971.92
T. 63 N., R. 17 W., in NW 1/4 sec. 26, 25 ft. S. and 25 ft. E. from State Highway 6 at rd. S., 600 ft. W. of rd. N., on E. head wall of concrete culvert; chiseled square	963.38
T. 63 N., R. 17 W., in SW 1/4 sec. 25, 210 ft. S. and 25 ft. W. from State Highway 6 at rd. S., 490 ft. W. of rd. N.; iron post stamped "Prim Trav Sta No 7 1910 Mo"	972.086

(Continued in Kirksville quadrangle; see line 5.)

6. FROM KIRKSVILLE QUADRANGLE AT SEC. 36, T. 62 N., R. 17 W., WEST TO CWASCO (by J. J. Crane in 1937)

(Continued from Kirksville quadrangle; see line 7.)

T. 62 N., R. 17 W., in S 1/2 sec. 36, 20 ft. N. and 15 ft. E. from rd. forks, in root on E. side of 22-in. white-oak tree; copper nail and washer	900.31
T. 62 N., R. 17 W., in W 1/2 sec. 36, 50 ft. N. and 25 ft. E. from T-rd. E., in root on N. side of 12-in. white-oak tree; copper nail and washer	984.94
T. 62 N., R. 17 W., in NE 1/4 sec. 35, 40 ft. N. and 25 ft. E. from rd. forks, 20 ft. S. of Pratt Cemetery, in concrete post; standard tablet stamped "T T 1555 E R A 1935"	984.658
T. 62 N., R. 17 W., on line between secs. 34 and 35, 40 ft. N. and 50 ft. E. from T-rd. W., in root on W. side of 66-in. elm tree; copper nail and washer	851.04
T. 62 N., R. 17 W., in N 1/2 sec. 34, 80 ft. N. and 50 ft. W. from T-rd. N., in root on E. side of 12-in. post-oak tree; copper nail and washer	984.67
T. 62 N., R. 17 W., on line between secs. 33 and 34, 25 ft. S. and 35 ft. E. from crossroad, in root on N. side of 20-in. post-oak tree; crossed nails	991.72
T. 62 N., R. 17 W., 665 ft. N. of cor. secs. 28, 29, 32, and 33, 150 ft. N. and 35 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 1556 E R A 1935"	1,033.442
Maple Grove School, at S. end of, on SW. corner of concrete porch; chiseled square	1,025.38

	<u>Feet</u>
T. 62 N., Rs. 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, in root on S. side of 22-in. elm tree; copper nail and washer	1,010.06
T. 62 N., R. 18 W., cor. secs. 25, 26, 35, and 36, 95 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 1557 E R A 1935"	1,009.169
T. 62 N., R. 18 W., near cor. secs. 26, 27, 34, and 35, 15 ft. N. and 20 ft. W. from W. end of iron bridge over Mussel Fork Creek, in root on S. side of 18-in. white-oak tree; copper nail and washer	904.10
Crossroads, 40 ft. S. and 20 ft. E. from, in root on E. side of 22-in. elm tree; crossed nails	953.64
T. 62 N., R. 18 W., quarter cor. between secs. 28 and 33, 22 ft. N. and 36 ft. W. from County Route A at crossroad, in concrete post; standard tablet stamped "T T 1558 E R A 1935"	1,041.859
T. 62 N., R. 18 W., quarter cor. between secs. 29 and 32, 40 ft. N. and 400 ft. E. from crossroad, 40 ft. N. and 40 ft. E. from small iron bridge, in root on S. side of 22-in. elm tree; copper nail and washer	946.32
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	995.98

7. FROM OWASCO SOUTH INTO BUCKLIN QUADRANGLE AT SEC. 24, T. 60 N., R. 19 W. (by F. Y. Brown in 1937)

T. 62 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	969.20
T. 62 N., R. 19 W., quarter cor. between secs. 26 and 35, 30 ft. S. and 35 ft. E. from N. end of jog in crossroads, in root on W. side of 14-in. white-oak tree; copper nail and washer	964.51

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

T. 61 N., R. 19 W., on line between secs. 11 and 14, at NE. corner of steel bridge over Yellow Creek; top of handrail	850.68
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 14-in. white-oak tree; copper nail and washer	871.68
T. 61 N., R. 19 W.; near quarter cor. between secs. 12 and 13, 30 (? 80) ft. S. and 20 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 1561 E R A 1935"	974.604
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	984.84
T. 61 N., R. 19 W., center sec. 24, 140 ft. N. and 15 ft. W. from T-rd. E., in root on E. side of 16-in. black-oak tree; copper nail and washer	992.84
Rd. Forks N., SE., and SW., 25 ft. NE. of, at corner fence post; surface of ground	1,000.6
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	989.94
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 E R A 1935"	869.172
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	932.95
T. 61 N., R. 19 W., 0.2 mi. E. of S. cor. secs. 35 and 36, about 0.2 mi. NE. of North Salem, 15 ft. N. and 30 ft. E. from rd. fork SW., in root on N. side of 16-in. elm tree; copper nail and washer	993.11
T. 61 N., Rs. 18 and 19 W., S. cor. secs. 31 and 36, 20 ft. N. and 40 ft. E. from T-rd. N., 20 ft. N. and 270 ft. W. from T-rd. S., in root on S. side of 26-in. maple tree; copper nail and washer	987.24
T. 60 N., R. 19 W., S. sixteenth cor. sec. 12, 20 ft. S. and 15 ft. E. from crossroads, in root on N. side of 16-in. walnut tree; copper nail and washer	897.85
T. 60 N., R. 19 W., in sec. 13, 45 ft. E. of SE. corner of farmhouse, 15 ft. W. of rd., in root on W. side of 14-in. maple tree; crossed nails	908.37
T. 60 N., R. 19 W., near N. sixteenth cor. sec. 24, 10 ft. S. and 35 ft. W. from T-rd. W., in base of corner fence post; spike	953.15
T. 60 N., R. 19 W., quarter cor. between secs. 13 and 24, 385 ft. S. and 15 ft. E. from T-rd. E., in root on W. side of 26-in. elm tree; copper nail and washer	913.58

(Continued in Bucklin quadrangle; see line 6.)

8. FROM KIRKSVILLE QUADRANGLE SOUTHWEST ALONG STATE HIGHWAY 11 TO SEC. 23, T. 60 N., R. 18 W. (by J. J. Crane in 1937)

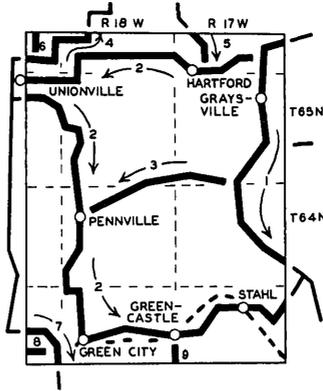
T. 61 N., R. 17 W., in N 1/2 sec. 12, 20 ft. N. and 10 ft. E. from crossroad, on E. head wall of concrete culvert; chiseled square	871.78
T. 61 N., R. 17 W., on line between secs. 11 and 12, 50 ft. S. of highway, 4 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 796 C W A 1934"	837.603
T. 61 N., R. 17 W., in sec. 11, 20 ft. S. and 30 ft. W. from junction of rd. N., on W. head wall of concrete culvert; chiseled square	866.20
T. 61 N., R. 17 W., in S 1/2 sec. 11, 20 ft. S. and 10 ft. W. from junction of rd. S., on W. end of iron pipe culvert; painted cross	949.22
T. 61 N., R. 17 W., near cor. secs. 10, 11, 14, and 15, 25 ft. N. and 15 ft. W. from junction of rd. N., on W. head wall of concrete culvert; chiseled square	905.76
T. 61 N., R. 17 W., on line between secs. 10 and 15, 40 ft. N. of highway, in root on W. side of 18-in. elm tree; crossed nails	992.21

	<u>Feet</u>
T. 61 N., R. 17 W., in SW 1/4 sec. 16, 50 ft. S. and 170 ft. W. from crossroad, in concrete post; standard tablet stamped "T T 797 C W A 1934"	1,023.135
T. 61 N., R. 17 W., on line between secs. 20 and 21, 20 ft. S. and 20 ft. W. from junction of rd. W., on S. head wall of concrete culvert; chiseled square	994.30
T. 61 N., R. 17 W., in SE 1/4 sec. 20, 30 ft. N. and 30 ft. E. from crossroad, on N. head wall of concrete culvert; chiseled square	998.75
T. 61 N., R. 17 W., near center sec. 29, 25 ft. S. and 30 ft. E. from crossroad, on S. head wall of concrete culvert; chiseled square	869.02
T. 61 N., R. 17 W., in NE 1/4 sec. 31, 600 ft. NE. of bridge over Mussel Fork Creek, 90 ft. N. of highway, in concrete post; standard tablet stamped "T T 798 C W A 1934"	864.145
T. 61 N., R. 17 and 18 W., on line between secs. 31 and 36, 20 ft. S. and 10 ft. W. from junction of rd. S. on Adair-Sullivan county line, on W. head wall of concrete culvert; chiseled square	882.54
T. 60 N., R. 18 W., on line between secs. 11 and 12, 30 ft. N. and 15 ft. W. from junction of rd. N., on W. head wall of concrete culvert; chiseled square	989.95
T. 60 N., R. 18 W., E. sixteenth cor. between secs. 11 and 14, 30 ft. S. and 40 ft. E. from junction of County Route A A and rd. E., in concrete post; standard tablet stamped "T T 799 C W A 1934"	955.793
T. 60 N., R. 18 W., in NE 1/4 sec. 23, 20 ft. S. and 30 ft. E. from junction of rd. E., on S. head wall of concrete culvert; chiseled square	950.14
T. 60 N., R. 18 W., in NE 1/4 sec. 23, on N. end of E. side of culvert K-403 1934; chiseled square	873.65
9. FROM KIRKSVILLE QUADRANGLE AT SEC. 24, T. 61 N., R. 17 W., SOUTH TO SEC. 13, T. 60 N., R. 17 W., THENCE WEST TO SEC. 14, T. 60 N., R. 18 W. (by J. J. Crane in 1937)	
(Continued from Kirksville quadrangle; see line 6.)	
T. 61 N., R. 17 W., near center sec. 24, 100 ft. S. and 40 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 Nind-Yarrow ridge rd., 15 ft. S. and 300 ft. W. from junction of rd. S., in root on S. side of 12-in. elm tree; copper nail and washer	941.78
Mind, about 0.5 mi. E. of, along Nind-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	944.12
Mind, on S. end of concrete step of Farmers Exchange Store; chiseled square	817.91
Mind, 1 mi. SW. 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
T. 61 N., R. 17 W., in W 1/2 sec. 36, 40 ft. S. and 35 ft. E. from junction of abandoned rd. E., in concrete post; standard tablet stamped "T T 1545 E R A 1933"	929.116
T. 61 N., R. 17 W., in SW 1/4 sec. 36, 12 ft. S. and 150 ft. E. from T-rd. E., in fence line, in root on E. side of 10-in. elm tree; copper nail and washer	930.26
(For balance in Kirksville quadrangle, see line 6.)	
T. 60 N., R. 17 W., in E 1/2 sec. 11, 320 ft. S. and 25 ft. W. from T-rd. E., in root on E. side of 36-in. elm tree; copper nail and washer	773.12
T. 60 N., R. 17 W., in E 1/2 sec. 14, 0.1 mi. N. of rd. fork, 100 ft. N. of small wooden bridge, 25 ft. E. of rd., in root on S. side of 18-in. elm tree; crossed nails	774.38
T. 60 N., R. 17 W., in SE 1/4 sec. 15, at rd. corner E.-S., 15 ft. S. of private rd. W., in root on W. side of 10-in. ash tree; copper nail and washer	790.21
T. 60 N., R. 17 W., in N 1/2 sec. 22, 0.6 mi. E. of Grandview School, 0.2 mi. W. of rd. fork, at small bridge, 30 ft. N. of rd., in root on W. side of 2 1/2-in. cottonwood tree; copper nail and washer	805.16
Grandview School, on E. side of, on SE. corner of concrete porch; chiseled square	968.56
T. 60 N., R. 17 W., near cor. secs. 16, 17, 20, and 21, 150 ft. S. of store, in concrete post; standard tablet stamped "1 C C 1937"	1,002.467
T. 60 N., R. 17 W., near cor. secs. 8, 9, 16, and 17, 100 ft. N. of dwelling, 60 ft. E. of rd., in root on S. side of 28-in. maple tree; copper nail and washer	1,004.30
T. 60 N., R. 17 W., on line between secs. 8 and 17, 15 ft. SE. of Lile School, 10 ft. N. of rd., in root on S. side of twin white-oak tree; copper nail and washer	875.54
T. 60 N., R. 17 W., near cor. secs. 7, 8, 17, and 18, 0.4 mi. W. of Lile School, 20 ft. S. and 160 ft. E. from crossroads, in root on W. side of 20-in. hickory tree; copper nail and washer	900.38
T. 60 N., R. 17 W., on line between secs. 7 and 18, on W. end of bridge across Mussel Fork Creek; bolt head	844.24
T. 60 N., R. 18 W., in NE 1/4 sec. 13, 25 ft. N. and 25 ft. E. from T-rd. S., in root on S. side of twin 10-in. hickory tree; copper nail and washer	994.71

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.

GREEN CITY QUADRANGLE
(Latitude 40°15'-40°30'; longitude 92°45'-93°00')

Adair, Putnam, and Sullivan Counties



1. FROM QUEEN CITY QUADRANGLE AT POINT 1 MILE EAST OF GLENDALE SCHOOL SOUTH BY WAY OF GRAYSVILLE AND MARTINSTOWN 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.)

	<u>Feet</u>
Glendale School, about 1 mi. W. of, on Shoal Creek rd., 300 ft. E. of large dwelling, N. of rd., in root of large box-elder tree; copper nails	817.35
Glendale School, 0.5 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. W. of wooden bridge over Shoal Creek, S. of rd.; iron post stamped "Mo 822"	819.300
Graysville, about 2 mi. N. of, at foot of Keller Hill, 100 ft. S. of bridge over small stream, E. of rd., in root of 24-in. maple tree; copper nail	846.99
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	977.88
Graysville, 50 ft. W. of school, 25 ft. E. of large elm tree, in fence line; iron post stamped "Mo 1001"	998.947
Graysville, 1.1 mi. S. of, 60 ft. E. of T-rd. S., 20 ft. N. of dwelling, on corner of sidewalk; chiseled mark	981.23
Martinstown, 0.5 mi. N. of, 30 ft. N. of entrance to Lone Pine Cemetery, in root of 12-in. hickory tree; copper nail	981.43
Martinstown, 25 ft. from NW. corner of church, in NW. corner of churchyard; iron post stamped "Mo 993"	990.287
Martinstown, 1.4 mi. S. of, on SW. corner of bridge over Blackbird Creek; bolt head	815.95
T. 65 N., R. 17 W., in SW 1/4 sec. 34, on top of ridge at rd. forks, in root of 10-in. oak tree; copper nail	974.52
Sidney, 1.5 mi. NE. of, on line between secs. 3 and 10, T. 64 N., R. 17 W., SW. of crossroads; iron post stamped "Mo 811"	808.845
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	930.12
Husted School, 1.2 mi. SW. of, near line between secs. 10 and 15, T. 64 N., R. 17 W., W. of N.-S. rd., in root of 15-in. hickory tree; copper nail	970.85
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	984.20
Shibley Point, 2 mi. N. of, in NE 1/4 sec. 24, T. 64 N., R. 17 W., 200 ft. E. of T-rd. N.; iron post stamped "Mo 966"	963.947

(Continued in Queen City quadrangle; see line 5.)

2. FROM GLENDALE SCHOOL WEST BY WAY OF HARTFORD TO UNIONVILLE, THENCE 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)

Glendale School, 1.3 mi. W. of, at top of hill, N. of rd., in root of oak tree; copper nail	927.81
Glendale School, 2.4 mi. SW. of, in SW 1/4 sec. 34, T. 65 N., R. 17 W., at curve in rd. to N., N. of rd., in oak tree; copper nail	975.04
Hartford, 0.8 mi. E. of, 200 ft. E. of dwelling of W. M. Wilson, at rd. corner N.-W., S. of rd.; iron post stamped "Mo 994"	991.973
Hartford, 1.4 mi. NW. of, NW. of T-rd. N., in tree; copper nail	1,009.44
Hartford, 2.7 mi. W. of, on line between secs. 35 and 36, opposite dwelling, in fence line N. of rd.; iron post stamped "982"	980.024

	<u>Feet</u>
Top of third hill W. of Blackbird Creek, 15 ft. S. of rd., in root of hickory tree; copper nail	1,007.71
Unionville, 3.8 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 1045"	1,042.781
(For balance in Boynton quadrangle, see line 1.)	
T. 65 N., R. 19 W., E. sixteenth cor. between secs. 11 and 14, near dwelling S. of rd., in S. side of maple tree; copper nail	986.52
T. 65 N., Rs. 18 and 19 W., 0.3 mi. N. of cor. secs. 13, 18, 19, and 24, in floor at SW. corner of bridge over South Blackbird Creek; bolt	910.60
T. 65 N., R. 18 W., near E. sixteenth cor. between secs. 18 and 19, NW. of crossroads; iron post stamped "Mo 933"	931.189
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	1,050.01
Tps. 64 and 65 N., Rs. 18 and 19 W., cor. of, at T-rd. S., on rock; chiseled square	1,043.99
T. 64 N., Rs. 18 and 19 W., N. sixteenth cor. between secs. 1 and 6, SE. of T-rd. E.; iron post stamped "Mo 1037"	1,035.325
T. 64 N., R. 18 W., in SE 1/4 sec. 6, SW. of T-rd. N., in root of oak tree; copper nail	1,036.58
Pennville, about 850 ft. N. of store building, 100 ft. W. of dwelling, W. of rd., in root of 12-in. hickory tree; copper nail	1,043.356
Pennville, about 1 mi. S. of, 200 ft. W. of small log cabin, W. of rd., in root of 18-in. oak tree; copper nail	1,032.67
Pennville, 1.5 mi. S. of, on line between secs. 18 and 19, T. 64 N., R. 18 W., 200 ft. N. of bridge over Spring Creek, E. of rd.; iron post stamped "Mo 896"	893.617
Boon Hill School, 0.2 mi. S. of, 100 ft. S. of T-rd. W., W. of rd., in root of 10-in. wild-cherry tree; copper nail	1,049.03
Tps. 63 and 64 N., Rs. 18 and 19 W., cor. of, opposite T-rd. E.; iron post stamped "Mo 1061"	1,061.028
Green City, 1 mi. N. of, cor. secs. 5, 6, 7, and 8, T. 63 N., R. 18 W., SE. of crossroads, in root of 20-in. maple tree; copper nail	1,054.80
Green City, 0.5 mi. N. of, quarter cor. between secs. 7 and 8, T. 63 N., R. 18 W., in SW. corner of cemetery; iron post stamped "Mo 1045"	1,042.659
Green City, 600 ft. N. of Quincy, Omaha & Kansas City R.R. sta.; top of rail	1,057.3
Green City, 0.5 mi. E. of, on SW. corner of bridge 93.1; bolt head	1,018.73
Green City, 1.5 mi. E. of, on SW. corner of bridge 92.2; bolt head	1,002.96
Greencastle, 1.5 mi. W. of, S. sixteenth cor. between secs. 9 and 10, T. 63 N., R. 18 W., at rd. corner E.-N.; iron post stamped "Mo 1041"	1,037.917
Greencastle, 1.2 mi. NE. of, in NW 1/4 sec. 12, T. 63 N., R. 18 W., N. of rd., in root of 18-in. tree; copper nail	1,040.54
Greencastle, 1.8 mi. NE. of, in NE 1/4 sec. 12, T. 63 N., R. 18 W., S. of rd.; iron post stamped "Mo 1025"	1,022.139
Port Arthur School, 1.2 mi. SW. of, N. of junction of private rd. S., in root of 15-in. oak tree; copper nail	1,005.90
Port Arthur School, 250 ft. S. of, E. of rd., in root of 12-in. oak tree; copper nail	977.22
Stahl, 1.8 mi. W. of, at NE. corner of bridge over Spring Creek; bolt head	816.49
Stahl, 0.4 mi. W. of, in NW 1/4 sec. 3, T. 63 N., R. 17 W., 100 ft. E. of small wooden bridge, N. of rd.; iron post stamped "Mo 807"	804.086
Stahl, 1.2 mi. NE. of, at T-rd. S., in root of 12-in. oak tree; copper nail	973.81
Stahl, 1.8 mi. NE. of, at T-rd. N., in root of 15-in. oak tree; copper nail	970.01
T. 63 N., R. 17 W., near center sec. 1, 0.8 mi. W. of Bethel Church, at T-rd. S., in root of 18-in. oak tree; copper nail	983.46

(Continued in Queen City quadrangle; see line 6.)

3. FROM SEC. 3, T. 64 N., R. 17 W., WEST TO PENNVILLE
(by P. W. McMillen and J. Rayburn in 1911)

Sidney, 1.5 mi. N. of, on line between secs. 4 and 9, T. 64 N., R. 17 W., N. of rd., on large boulder; chiseled square	888.73
Clark School, 0.5 mi. N. of, on top of ridge, at rd. forks, in root of 10-in. oak tree; copper nail	969.58
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	1,004.00
T. 64 N., R. 18 W., in NE 1/4 sec. 1, 50 ft. W. of large dwelling, S. of rd.; iron post stamped "Mo 1018"	1,015.897
T. 64 N., R. 18 W., in NE 1/4 sec. 2, at SE. corner of bridge over Shut-eye Creek; bolt head	930.74
Tps. 64 and 65 N., R. 18 W., near cor. secs. 2, 3, 34, and 35, NW. of crossroads, in root of 12-in. hickory tree; copper nail	1,031.25
T. 64 N., R. 18 W., on line between secs. 3 and 4, at T-rd. N.; surface of rd.	1,040.4
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"	1,031.938
Pennville, about 1 mi. NE. of, 300 ft. E. of bridge over North Spring Creek, N. of rd., in root of 12-in. elm tree; copper nail	911.30

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.)
- | | <u>Feet</u> |
|--|-------------|
| Unionville, 1.4 mi. E. of courthouse, S. sixteenth cor. between secs. 31 and 36, T. 66 N., Rs. 18 and 19 W., 20 ft. N. and 50 ft. E. from T-rd. N., on head wall of culvert; chiseled square | 1,041.40 |
| T. 66 N., Rs. 18 and 19 W., cor. secs. 25, 30, 31, and 36, 60 ft. S. and 50 ft. W. from T-rd. E., in root on SE. side of 30-in. post-oak tree; copper nail and washer | 1,043.36 |
| T. 66 N., R. 18 W., on line between secs. 30 and 31, 14 ft. S. and 15 ft. W. from T-rd. N., in telephone pole; nails | 1,040.14 |
| T. 66 N., R. 18 W., W. sixteenth cor. between secs. 29 and 32, 8 ft. N. and 160 ft. W. from T-rd. N., on head wall of culvert; chiseled square | 980.37 |
| T. 66 N., R. 18 W., in SE 1/4 sec. 29, 70 ft. N. and 9 ft. W. from T-rd. W., on head wall of culvert; chiseled square | 1,017.39 |
| T. 66 N., R. 18 W., N. sixteenth cor. between secs. 28 and 29, 45 ft. N. and 22 ft. W. from T-rd. W., in concrete post; standard tablet stamped "1 C B 1936" | 889.061 |
- (Continued in Centerville quadrangle; see line 1.)
5. FROM CENTERVILLE QUADRANGLE AT SEC. 29, T. 66 N., R. 17 W., SOUTH TO HARTFORD (by Cornish Beck in 1936)
(Continued from Centerville quadrangle; see line 4.)
- | | |
|---|--------|
| T. 66 N., R. 17 W., near W. sixteenth cor. sec. 28, on NE. wing wall of bridge over Sandy Creek; chiseled square | 831.45 |
| T. 66 N., R. 17 W., 0.1 mi. E. of center sec. 33, 71 ft. E. of T-rd. W., in root on SW. side of 16-in. hickory tree; bent nails | 989.61 |
| T. 66 N., R. 17 W., in NW 1/4 sec. 4, 35 ft. N. and 78 ft. E. from junction of State Highway 4 and County Route V, on head wall of culvert; chiseled square | 996.47 |
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 NW. corner of semaphore; bolt head | 1,016.36 |
|---|----------|
- (Continued in Centerville quadrangle; see line 5.)
7. FROM BOYNTON QUADRANGLE AT SEC. 14, T. 63 N., R. 19 W., EAST AND SOUTH INTO WINIGAN QUADRANGLE AT SEC. 23, T. 63 N., R. 19 W.
(by D. R. Stewart in 1936)
(Continued from Boynton quadrangle; see line 5.)
- | | |
|--|----------|
| T. 63 N., R. 19 W., near E. sixteenth cor. sec. 14, on SW. wing wall of bridge over Yellow Creek; chiseled square | 931.03 |
| T. 63 N., R. 19 W., in W 1/2 sec. 13, 20 ft. N. and 15 ft. W. from T-rd. S., in root on E. side of small wild-cherry tree; crossed nails | 1,014.11 |
| T. 63 N., R. 19 W., W. sixteenth cor. between secs. 13 and 24, 50 ft. S. and 25 ft. E. from crossroads, in root on W. side of 30-in. locust tree; copper nail and washer | 1,032.58 |
- (Continued in Winigan quadrangle; see line 3.)
8. FROM SEC. 13, T. 63 N., R. 19 W., WEST INTO BOYNTON QUADRANGLE AT SEC. 23, T. 63 N., R. 19 W. (by W. V. Kennedy in 1936)
- | | |
|---|--------|
| T. 63 N., R. 19 W., on line between secs. 14 and 23, on SE. wing wall of bridge over drain; chiseled square | 951.90 |
| T. 63 N., R. 19 W., in N 1/2 sec. 23, in NW. pier of bridge over Yellow Creek; copper nail and washer | 925.82 |
- (Continued in Boynton quadrangle; see line 9.)
9. FROM SEC. 23, T. 63 N., R. 18 W., NORTH TO GREENCASTLE
(by H. B. Pyle in 1937)
- | | |
|--|-----------|
| T. 63 N., R. 18 W., near E. sixteenth cor. between secs. 14 and 23, 15 ft. S. and 150 ft. W. from T-rd. N., on S. head wall of concrete culvert; chiseled square | 1,031.56 |
| Greencastle triangulation sta.; U.S.C. & G.S. standard disk stamped "Greencastle 1934" | 1,047.325 |
| Reference mark 1, U.S.C. & G.S. standard reference disk stamped "Greencastle No 1 1934" | 1,047.262 |
| Reference mark 2, U.S.C. & G.S. standard reference disk stamped "Greencastle No 2 1934" | 1,047.679 |
| U.S.C. & G.S. standard disk stamped "X 16 1933" | 1,022.375 |
- 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.

T. 67 N., R. 18 W., S. cor. secs. 20 and 21, on Iowa-Mo. State line, 55 ft. N. and 20 ft. E. from rd. corner N.-W. and dim rd. E., in concrete post; standard tablet stamped "T T 66 J J 1936"	Foot 995.794
T. 67 N., R. 18 W., on N. line sec. 29, on Iowa-Mo. State line, 15 ft. N. and 310 ft. W. from T-rd. S., 12 ft. E. of NW. corner of wooden bridge, in N. end of sill; copper nail and washer	998.08
T. 67 N., R. 18 W., N. quarter cor. sec. 30, on Iowa-Mo. State line, 30 ft. N. and 18 ft. W. from T-rd. N., in root on S. side of 28-in. elm tree; copper nail and washer	1,048.97

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"	1,014.822
T. 67 N., R. 18 W., in SW 1/4 sec. 26, 30 ft. S. and 100 ft. E. from T-rd. E., in yard, in root on N. side of 16-in. maple tree; copper nail and washer	1,008.76
T. 67 N., R. 18 W., in S 1/2 sec. 25, 170 ft. S. and 150 ft. E. from rd. fork N., in yard, in root on N. side of 24-in. black-oak tree; copper nail and washer	996.16
T. 67 N., R. 17 W., in NW 1/4 sec. 31, 12 ft. N. and 31 ft. E. from rd. forks, 67 ft. N. and 49 ft. W. from Friendship School, in concrete post; standard tablet stamped "T T 68 J J 1936"	992.698
T. 67 N., R. 17 W., in SW 1/4 sec. 29, 20 ft. S. and 36 ft. E. from SE. corner of bridge over Shoal Creek, in root on N. side of 22-in. elm tree; copper nail and washer	858.82
T. 67 N., R. 17 W., in SW 1/4 sec. 28, 16 ft. N. and 25 ft. E. from T-rd. E., on W. side of corner fence post; nails	988.08
T. 67 N., R. 17 W., in SW 1/4 sec. 27, 18 ft. N. and 25 ft. E. from T-rd. E., in corner fence post; spike	979.20
T. 67 N., R. 17 W., 710 ft. N. of quarter cor. between secs. 27 and 34, 20 ft. N. and 50 ft. W. from T-rd. W., in concrete post; standard tablet stamped "T T 69 J J 1936"	982.564 907.07
Bridge, on SW. wing wall; chiseled square	
T. 67 N., R. 17 W., near E. sixteenth cor. between secs. 15 and 22, 32 ft. N. and 435 ft. E. from T-rd. S., in root on S. side of 22-in. post-oak tree; copper nail and washer	979.12
T. 67 N., R. 17 W., near quarter cor. between secs. 14 and 23, 66 ft. S. and 72 ft. W. from T-rd. S., on NW. corner of step of Union Church; chiseled square	993.44
T. 67 N., R. 17 W., on line between secs. 13 and 24, in top of SW. piling of bridge over Spring Creek; bent nail	867.94
T. 67 N., R. 17 W., E. sixteenth cor. between secs. 13 and 24, 90 ft. S. and 20 ft. E. from T-rd. S., in root on W. side of 26-in. hickory tree; copper nail and washer	929.17
T. 67 N., R. 17 W., 300 ft. E. of N. quarter cor. sec. 25, on Iowa-Mo. State line, 16 ft. S. and 210 ft. E. from rd. corner N.-E., in concrete post; standard tablet stamped "T T 70 J J 1936"	912.621

(Continued in Moulton quadrangle; see line 2.)

4. FROM SEC. 18, T. 66 N., R. 17 W., SOUTH INTO GREEN CITY QUADRANGLE AT SEC. 29, T. 66 N., R. 17 W. (by Cornish Beck in 1936)

T. 66 N., R. 17 W., near N. sixteenth cor. between secs. 19 and 20, 33 ft. S. and 19 ft. E. from T-rd. E., in concrete post; standard tablet stamped "4 C B 1936"	993.019
T. 66 N., R. 17 W., in W 1/2 sec. 20, 12 ft. S. and 15 ft. W. from T-rd. S., in corner fence post; nail	977.74
T. 66 N., R. 17 W., in SE 1/4 sec. 20, 70 ft. N. and 40 ft. W. from NW. corner of dwelling of O. H. Graves, 13 ft. E. of rd., in root on W. side of 26-in. white-oak tree; copper nail and washer	981.53
T. 66 N., R. 17 W., in NE 1/4 sec. 29, 30 ft. N. and 33 ft. E. from T-rd. E., in root on S. side of 18-in. white-oak tree; copper nail and washer	939.38

(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. 24, T. 67 N., R. 19 W. (by D. R. Stewart in 1936)
(Continued from Green City quadrangle; see line 6.)

T. 66 N., R. 19 W., cor. secs. 23, 24, 25, and 26, on SW. abutment of bridge; chiseled square	948.32
T. 66 N., R. 19 W., quarter cor. between secs. 23 and 24, 25 ft. N. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "5 S 1936"	1,029.087
T. 66 N., R. 19 W., near cor. secs. 11, 12, 13, and 14, on SE. abutment of bridge over Blackbird Creek; chiseled square	923.36
T. 66 N., R. 19 W., near quarter cor. between secs. 11 and 12, 10 ft. S. and 35 ft. W. from T-rd. E., in top of large elm-tree stump; cross nails	963.75
T. 66 N., R. 19 W., near N. sixteenth cor. between secs. 11 and 12, 25 ft. N. and 25 ft. W. from T-rd. W., in corner fence post; spike	1,018.88

	<u>Feet</u>
T. 67 N., R. 21 W., S. quarter cor. sec. 35, 95 ft. S. and 130 ft. E. from T-rd. N., on W. side of top concrete step to cellar; chiseled square	1,082.55
T. 67 N., R. 21 W., quarter cor. between secs. 34 and 35, 20 ft. N. of rd. corner S.-W., in concrete post; standard tablet stamped "T T 58 J J 1936"	1,049.684
T. 67 N., R. 21 W., W. sixteenth cor. sec. 34, 20 ft. N. and 230 ft. E. from T-rd. N., in root on N. side of 15-in. willow tree; copper nail and washer	1,061.46
T. 67 N., R. 21 W., E. (? W.) sixteenth cor. between secs. 27 and 34, 25 ft. S. and 240 ft. W. from T-rd. S., in root on SW. side of 18-in. hedge tree; copper nail and washer	1,091.18
T. 67 N., R. 21 W., N. cor. secs. 27 and 28, on Iowa-Mo. State line, 55 ft. S. and 205 ft. W. from T-rd. W., in root on NW. side of 28-in. maple tree; copper nail and washer	1,093.07

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.)

T. 67 N., R. 19 W., S. cor. secs. 23 and 24, on Iowa-Mo. State line, 20 ft. S. of T-rd. N., 2 ft. N. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 33 Mac 1923"	1,001.627
T. 67 N., R. 19 W., N. quarter cor. sec. 27, 25 ft. N. and 25 ft. E. from State Highway 5 at rd. on Iowa-Mo. State line, on SE. end of NE. head wall of culvert; chiseled square	1,066.15
T. 67 N., R. 19 W., W. sixteenth cor. on S. line sec. 22, 90 ft. N. and 425 ft. E. from T-rd. N., in root on S. side of large cottonwood tree; copper nail and washer	1,065.93
T. 67 N., R. 19 W., N. cor. secs. 28 and 29, 5 ft. S. and 17 ft. E. from stone on Iowa-Mo. State line, 35 ft. N. and 60 ft. E. from dwelling of Mary Idleman, 25 ft. S. of rd., in concrete post; standard tablet stamped "T T 65 J J 1936"	1,072.610
T. 67 N., R. 19 W., W. sixteenth cor. on N. line sec. 29, 155 ft. S. and 20 ft. W. from T-rd. S., in root on NE. side of large, twin elm tree; copper nail and washer	1,017.91
T. 67 N., R. 19 W., W. sixteenth cor. between secs. 29 and 32, 120 ft. N. and 20 ft. W. from crossroads, in W. side of small elm tree; spike	1,060.54
T. 67 N., R. 19 W., W. sixteenth cor. between secs. 30 and 31, 15 ft. S. and 15 ft. E. from T-rd. N., in N. side of telephone pole; spike	1,052.26
T. 67 N., R. 19 and 20 W., cor. secs. 25, 30, 31, and 36, 22 ft. N. and 5 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 64 J J 1936"	985.193
T. 67 N., R. 20 W., near cor. secs. 25, 26, 35, and 36, on SE. wing wall of small bridge; chiseled square	959.52
T. 67 N., R. 20 W., near W. sixteenth cor. between secs. 26 and 35, 65 ft. N. and 25 ft. W. from crossroads, in corner fence post; spike	1,057.68
T. 67 N., R. 20 W., near quarter cor. between secs. 27 and 34, on SE. wing wall of bridge; chiseled square	940.06
T. 67 N., R. 20 W., cor. secs. 27, 28, 33, and 34, about 850 ft. W. of T-rd. S., at SW. corner of small bridge, at concrete foundation of old structure; bolt head	943.84
T. 67 N., R. 20 W., E. sixteenth cor. between secs. 29 and 32, 25 ft. S. and 48 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 63 J J 1936"	1,061.272
T. 67 N., R. 20 W., E. sixteenth cor. on S. line sec. 32, 25 ft. S. and 25 ft. E. from T-rd. N., in root on W. side of 18-in. maple tree; copper nail and washer	1,063.46
T. 67 N., R. 20 W., near W. sixteenth cor. on S. line sec. 32, 20 ft. S. and 180 ft. E. from T-rd. S., in root on NW. side of 16-in. elm tree; bent nails	1,011.91
T. 67 N., R. 20 W., S. cor. secs. 31 and 32, 145 ft. E. of T-rd. N., on SE. wing wall of bridge; chiseled square	977.10
T. 67 N., R. 20 W., on S. line sec. 31, 55 ft. N. and 40 ft. W. from NW. corner of small bridge, in root on E. side of 18-in. white-oak tree; crossed nails	957.21
Tps. 66 and 67 N., R. 21 W., E. sixteenth cor. between secs. 1 and 36, 21 ft. S. and 31 ft. W. from T-rd. S., 20 ft. W. of fence, in concrete post; standard tablet stamped "T T 62 J J 1936"	1,067.612
T. 66 N., R. 21 W., near N. quarter cor. sec. 2, 20 ft. N. of T-rd. S., 20 ft. N. and 75 ft. W. from T-rd. N., in root on S. side of 10-in. elm tree; copper nail and washer	1,045.15

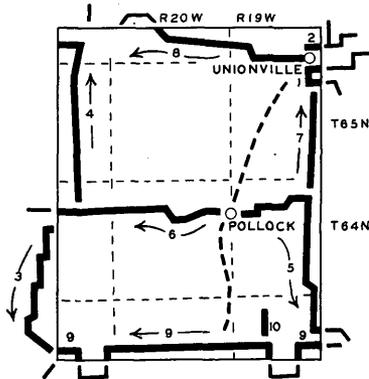
3. FROM BOYNTON QUADRANGLE AT SEC. 28, T. 66 N., R. 20 W., WEST INTO BOYNTON QUADRANGLE AT SEC. 30, T. 66 N., R. 20 W. (by D. R. Stewart in 1936)
(Continued from Boynton quadrangle; see line 8.)

T. 66 N., R. 20 W., quarter cor. between secs. 21 and 28, 20 ft. N. and 50 ft. W. from rd. corner S.-W., on W. side of S. end of concrete sidewalk; chiseled square	1,052.67
T. 66 N., R. 20 W., 0.1 mi. N. of quarter cor. between secs. 20 and 29, 16 ft. S. and 20 ft. E. from T-rd. N. and abandoned rd. S., in concrete post; standard tablet stamped "T T 61 J J 1936"	931.059
Bridge over West Locust Creek, on SW. wing wall; chiseled square	927.04
T. 66 N., R. 20 W., quarter cor. between secs. 19 and 30, 175 ft. N. and 110 ft. E. from T-rd. N., in root on SE. side of large elm tree, copper nail and washer	1,009.51
T. 66 N., R. 20 W., near W. cor. secs. 19 and 30, 20 ft. S. and 30 ft. E. from T-rd. N., in root on NE. side of 8-in. oak tree; copper nail	994.80

SPIRIT LEVELING IN MISSOURI

BOYNTON QUADRANGLE
(Latitude 40°15'-40°30'; longitude 93°00'-93°15')

Putnam and Sullivan Counties



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 P. W. McMillen and J. Rayburn in 1911)
(Continued from Green City quadrangle; see line 2.)

	Feet
Unionville, 1.8 mi. S. of, opposite dwelling, E. of rd., in root of poplar tree; copper nail	1,052.20
T. 65 N., R. 19 W., cor. secs. 10, 11, 14, and 15, W. of rd., in elm tree; copper nail	940.73

(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 74 J J 1936"	1,067.282

(Continued in Green City quadrangle; see line 4.)

3. FROM SEC. 15, T. 64 N., R. 21 W., SOUTH TO SEC. 15, T. 63 N., R. 21 W. (by D. R. Stewart in 1936)*

T. 64 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	927.37
T-rd. E., W. of rd., in fence post; nail	1,012.99
T. 64 N., R. 21 W., 165 ft. E. of E. sixteenth cor. between secs. 21 and 28, 30 ft. N. and 28 ft. W. from T-rd. N., in SE. corner of schoolyard, in concrete post; standard tablet stamped "T T 1563 E R A 1935"	992.731
Bridge over creek, at SE. corner of, on iron sill; chiseled square	914.29
T-rd. W., 45 ft. S. and 15 ft. E. from, in root on SW. side of 12-in. elm tree; crossed nails	981.46
T. 64 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	973.37
Bridge over West Locust Creek, on first iron beam W. of NE. corner of; chiseled square	877.15
T. 64 N., R. 21 W., quarter cor. between secs. 32 and 33, 30 ft. N. and 10 ft. W. from T-rd. S., in base of telephone pole; spike	890.90
T. 63 N., R. 21 W., in NE 1/4 sec. 5, on SW. wing wall of bridge over creek; chiseled square	886.50
T-rd. W., 15 ft. N. and 54 ft. E. from, in root on S. side of small, twin elm tree; crossed nails	963.03
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	956.68
Harris triangulation sta.; U.S.C. & G.S. standard disk stamped "Harris 1928"	1,010.140
Reference mark 3; U.S.C. & G.S. standard reference disk stamped "Harris No 3 1934"	1,003.626
T-rd. N., 15 ft. N. and 25 ft. W. from, on concrete foundation of corner fence post; chiseled square	991.94
T. 63 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	917.24
T. 63 N., R. 21 W., cor. secs. 16, 17, 20, and 21, 15 ft. N. and 15 ft. W. from crossroads, in root on W. side of large, twin maple tree; copper nail and washer	926.81

*Published also as line 1 of the Lucerne quadrangle (see Bull. 898-D, pp. 453).

T. 63 N., R. 21 W., in SW 1/4 SW 1/4 sec. 15, 30 ft. N. and 160 ft. W. from W. end of bridge over West Locust Creek, in root on SE. side of large, twin elm tree; copper nail and washer	<u>Feet</u> 854.40
4. FROM SEC. 10, T. 64 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 1936)*	
T. 64 N., R. 21 W., approximate quarter cor. between secs. 10 and 11, 36 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T 1564 E R A 1935"	1,021.582
Reference mark, 50 ft. N. and 110 ft. W. from tablet, in root on N. side of 16-in. elm tree; copper nail and washer	1,017.47
T. 64 N., R. 21 W., N. cor. secs. 2 and 3, 80 ft. S. and 35 ft. E. from crossroads, in root on SE. side of large elm tree; copper nail and washer	1,027.32
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 "7 S 1936"	994.860
T. 65 N., R. 21 W., cor. secs. 22, 23, 26, and 27, 150 ft. N. and 65 ft. W. from T-rd. E., in front of farmhouse, on SW. corner of concrete sidewalk; chiseled square	1,050.39
T. 65 N., R. 21 W., cor. secs. 14, 15, 22, and 23, 10 ft. S. and 120 ft. E. from crossroads, on SW. wing wall of concrete culvert; chiseled square	1,006.94 1,061.524
Fry triangulation sta.; U.S.C. & G.S. standard disk stamped "Fry 1928" Reference mark 2: U.S.C. & G.S. standard reference disk stamped "Fry No 2 1928"	1,060.936
T-rd. E., 125 ft. N. and 85 ft. W. from, at well, on SE. corner of concrete platform; chiseled square	1,056.17
T. 65 N., R. 21 W., cor. secs. 2, 3, 10, and 11, 85 ft. S. and 65 ft. E. from crossroads, in root on NE. side of 20-in. elm tree; copper nail and washer	1,026.57
T. 66 N., R. 21 W., in SE 1/4 SE 1/4 sec. 35, 80 ft. N. and 20 ft. W. from State Highway 4 at rd. N., in concrete post; standard tablet stamped "8 S 1936"	931.104
T. 66 N., R. 21 W., quarter cor. between secs. 26 and 35, 40 ft. S. and 30 ft. E. from crossroads, in root on SE. side of 24-in. black-oak tree; copper nail and washer	1,022.20
T. 66 N., R. 21 W., cor. secs. 25, 26, 35, and 36, 20 ft. N. and 75 ft. E. from T-rd. N., in root on SW. side of 8-in. wild-cherry tree; copper nail and washer	1,023.56
T. 66 N., R. 21 W., cor. secs. 23, 24, 25, and 26, 48 ft. S. and 18 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 60 J J 1936"	1,059.158
Reference mark, 200 ft. N. and 100 ft. W. from tablet, at cellar, on top of concrete doorway; chiseled square	1,067.53
T. 66 N., R. 21 W., quarter cor. between secs. 23 and 26, 10 ft. N. and 200 ft. E. from crossroads, S. (? N.), in root on N. side of 18-in. elm tree; copper nail and washer	986.98
T. 66 N., R. 21 W., in NE 1/4 NE 1/4 sec. 27, at small bridge, on SE. wing wall; chiseled square	965.92
5. FROM POLLOCK EAST TO SEC. 11, T. 64 N., R. 19 W., THENCE SOUTH INTO GREEN CITY QUADRANGLE AT SEC. 14, T. 63 N., R. 19 W. (by D. R. Stewart in 1936)	
U.S.C. & G.S. standard disk stamped "H 10 1930"	935.516
Pollock, at S. limits of, 21 ft. S. and 18 ft. E. from T-rd. N., in N. side of telephone pole; nails	1,031.70
Pollock, 1.2 mi. E. of, 35 ft. N. and 105 ft. W. from cor. secs. 7, 8, 17, and 18, T. 64 N., R. 19 W., 35 ft. N. and 200 ft. W. from T-rd. N., in concrete post; standard tablet stamped "T T 55 J J 1936"	995.989
T. 64 N., R. 19 W., on line between secs. 8 and 17, at SE. corner of bridge, on top of iron handrail; chiseled square	949.27
T. 64 N., R. 19 W., cor. secs. 8, 9, 16, and 17, 40 ft. N. and 15 ft. E. from crossroads, in root on W. side of 18-in. white-oak tree; copper nail and washer	993.55
T. 64 N., R. 19 W., quarter cor. between secs. 8 and 9, 35 ft. S. and 12 ft. E. from SE. corner of Gilbert School, 65 ft. N. and 20 ft. W. from junction of abandoned rd. E., on E. side of concrete foundation of pump; chiseled square	1,059.06
T. 64 N., R. 19 W., quarter cor. between secs. 9 and 10, 55 ft. N. and 17 ft. E. from T-rd. W., in root on SE. side of twin elm tree; copper nail and washer	1,064.41
T-rd. E., 98 ft. S. and 16 ft. W. from, in root on NW. side of 18-in. elm tree; nails	1,056.04
T-rd. S., 15 ft. S. and 18 ft. E. from, in NW. side of 10-in. corner fence post; nails	1,062.98
T. 64 N., R. 19 W., about 0.3 mi. E. of N. sixteenth cor. sec. 10, 61 ft. S. and 18 ft. W. from T-rd. W., 50 ft. E. of NE. corner of dwelling, in root on N. side of 24-in. maple tree; copper nail and washer	1,062.29
T. 64 N., R. 19 W., near quarter cor. between secs. 10 and 11, 175 ft. SE. of Chappel School, 10 ft. S. of fence corner; iron post stamped "Prim Trav Sta No 10 1910 Mo"	1,056.258
Reference mark, 70 ft. N. and 57 ft. W. from post, on front step of entrance to school; chiseled square	1,058.85
T. 64 N., R. 19 W., cor. secs. 10, 11, 14, and 15, 185 ft. S. and 15 ft. E. from T-rd. W., on N. end of head wall of concrete culvert; chiseled square	978.49 1,037.58
Concrete culvert, on NW. corner of head wall; chiseled square	978.49 1,037.58
*Line 2 of Lucerne quadrangle includes a portion of this line (see Bull. 898-D, pp. 453-454).	

	Feet
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., near quarter cor. between secs. 22 and 23, 30 ft. N. and 45 ft. W. from crossroads, in root on W. side of 19-in. walnut tree; copper nail and washer	1,036.08
T. 64 N., R. 19 W., N. sixteenth cor. between secs. 26 and 27, 35 ft. E. of T-rd. W., 34 ft. S. and 50 ft. W. from dwelling, in concrete post; standard tablet stamped "1 S 1936"	1,037.624
Bridge over East Yellow Creek, on SE. corner of wing wall; chiseled square	966.70
T. 64 N., R. 19 W., cor. secs. 26, 27, 34, and 35, 260 ft. S. 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)	1,020.24
T. 64 N., R. 19 W., W. sixteenth cor. sec. 35, 220 ft. W. of T-rd. S., on NE. corner of concrete culvert; chiseled square	987.69
T. 63 N., R. 19 W., W. sixteenth cor. between secs. 2 and 11, 33 ft. N. and 32 ft. W. from crossroads, in concrete post; standard tablet stamped "2 S 1936"	1,004.478
T-rd. E., on W. head wall of concrete culvert; chiseled square	1,008.16
T. 63 N., R. 19 W., W. sixteenth cor. between secs. 11 and 14, 20 ft. S. and 18 ft. W. from State Highway 6 at N.-S. crossroad, on W. head wall of concrete culvert; chiseled square	999.12
T-rd. N., 40 ft. S. and 60 ft. W. from, in root on E. side of small, white-oak tree; crossed nails	1,002.18

(Continued in Green City quadrangle; see line 7.)

6. FROM POLLOCK WEST TO SEC. 15, T. 64 N., R. 21 W.
(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	1,031.83
T. 64 N., R. 20 W., in NE 1/4 sec. 14, 25 ft. S. and 40 ft. W. from State Highway 5 at rd. W., in concrete post; standard tablet stamped "T T 54 J J 1936"	1,030.179
Reference mark, 65 ft. S. and 85 ft. E. from tablet, on E. head wall of concrete culvert; chiseled square	1,024.23
T. 64 N., R. 20 W., N. sixteenth cor. 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	863.21
T. 64 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. 64 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	851.70
T. 64 N., R. 20 W., center sec. 9, 100 ft. S. and 25 ft. E. from crossroads, in root on N. side of twin elm tree; copper nail and washer	913.25
T. 64 N., R. 20 W., center sec. 8, 20 ft. N. and 120 ft. E. from T-rd. N., 60 ft. S. of SE. corner of stucco school, in concrete post; standard tablet stamped "T T 53 J J 1936"	1,016.904
T. 64 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. 64 N., R. 20 and 21 W., near quarter cor. between secs. 7 and 12, 40 ft. S. and 175 ft. E. from rd. forks, in root on NW. side of 12-in. white-oak tree; copper nail and washer	931.72
T. 64 N., R. 20 W., in E 1/2 sec. 12, at NE. corner of bridge over creek, on iron sill; chiseled square	889.75
T. 64 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	948.97
T-rd. N., 25 ft. S. and 10 ft. W. from, in root on NW. side of 12-in. black-oak tree; crossed nails	936.95
T. 64 N., R. 21 W., quarter cor. between secs. 14 and 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	1,033.05

7. FROM SEC. 3, T. 64 N., R. 19 W., NORTH TO UNIONVILLE
(by D. R. Stewart in 1936)

T. 64 N., R. 19 W., quarter cor. between secs. 2 and 3, 15 ft. N. and 7 ft. W. from T-rd. E., on N. head wall of concrete culvert; chiseled square	966.17
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	1,065.29
T. 65 N., R. 19 W., cor. secs. 26, 27, 34, and 35, 27 ft. S. and 40 ft. W. from crossroads, in concrete post; standard tablet stamped "3 S 1936"	1,062.674
T. 65 N., R. 19 W., cor. secs. 22, 23, 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 E. head wall of concrete culvert; chiseled square	999.74

	Feet
T. 65 N., R. 19 W., cor. secs. 10, 11, 14, and 15, 15 ft. S. and 20 ft. W. from T-rd. E., in concrete post; standard tablet stamped "L S 1936"	940.205
T. 65 N., R. 19 W., cor. secs. 2, 3, 10, and 11, 6 ft. S. and 21 ft. W. from T-rd. E., in root on W. side of 18-in. elm tree; copper nail and washer	1,053.80
Unionville, 25 ft. S. and 20 ft. E. from intersection of Garfield and Twenty-second Streets, on NW. corner of sidewalk; chiseled square	1,065.82
8. FROM UNIONVILLE WEST INTO SEYMOUR QUADRANGLE AT SEC. 28, T. 66 N., R. 20 W. (by D. R. Stewart in 1936)	
T. 66 N., R. 19 W., near W. sixteenth cor. on N. line sec. 3, 20 ft. N. and 25 ft. E. from intersection of State Highways 4 and 5, on wing wall at NE. end of concrete culvert; chiseled square	1,048.03
T. 65 N., R. 19 W., N. cor. secs. 4 and 5, 25 ft. S. and 16 ft. W. from T-rd. S., on W. head wall of concrete culvert; chiseled square	1,049.18
T. 66 H., R. 19 W., S. quarter cor. sec. 32, 25 ft. N. and 15 ft. W. from T-rd. N., on W. head wall of concrete culvert; chiseled square	1,068.25
T. 66 N., R. 19 W., near center sec. 32, 20 ft. N. and 10 ft. E. from T-rd. E., on N. head wall of concrete culvert; chiseled square	1,069.77
T. 66 N., R. 19 W., near N. sixteenth cor. sec. 32, 30 ft. E. of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 81 L S 1923 Mo"	1,071.852
T. 66 N., R. 19 W., N. sixteenth cor. between secs. 31 and 32, 10 ft. N. and 70 ft. W. from T-rd. N., on N. head wall of concrete culvert; chiseled square	1,045.68
T-rd. N., 25 ft. N. and 20 ft. E. from, in S. side of telephone pole; spike	1,008.81
T. 66 N., R. 20 W., center of NE 1/4 sec. 36, 25 ft. N. and 30 ft. W. from T-rd. S., in root on SW. side of large, elm tree; copper nail and washer	1,039.51
T. 66 N., R. 20 W., in SW 1/4 sec. 25, 60 ft. S. and 45 ft. E. from T-rd. N., in root on SE. side of 24-in. post-oak tree; copper nail and washer	1,034.46
T. 66 N., R. 20 W., in SW 1/4 sec. 26, 110 ft. N. and 75 ft. E. from T-rd. N., in root on SE. side of 24-in. white-oak tree; copper nail and washer	1,007.40
T. 66 N., R. 20 W., in SE 1/4 sec. 27, on SE. wing wall of concrete bridge over East Locust Creek; chiseled square	901.38
T. 66 N., R. 20 W., in SE 1/4 sec. 27, 22 ft. N. and 10 ft. E. from rd. fork SW., 45 ft. W. of old store building, in concrete post; standard tablet stamped "Prim Trav Sta No 80 L S 1923 Mo"	971.052
T. 66 N., R. 20 W., S. sixteenth cor. sec. 28, 90 ft. S. and 15 ft. E. from T-rd. E., in root on NW. side of 16-in. wild-cherry tree; copper nail and washer	1,058.51
T-rd. W., in telephone pole; spike	1,055.62

(Continued in Seymour quadrangle; see line 3.)

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) (Continued from Green City quadrangle; see line 8.)	
T. 63 N., R. 19 W., in NE 1/4 sec. 22, 45 ft. N. and 40 ft. E. from T-rd. E., in root on SE. side of 14-in. hickory tree; copper nail and washer	1,018.27
(For balance in Milan quadrangle, see line 2.)	
Junction of private rd. W., on W. head wall of concrete culvert; chiseled square	997.94
T. 63 N., R. 19 W., quarter cor. between secs. 16 and 17, 10 ft. S. and 18 ft. W. from State Highway 6 at rd. W., 60 ft. S. of rd. E., on S. head wall of concrete culvert; chiseled square	1,033.88
T. 63 N., R. 19 W., quarter cor. between secs. 17 and 18, 660 ft. S. of T-rd. E., 18 ft. W. of rd., in root on W. side of 14-in. black-oak tree; copper nail and washer	996.16
T. 63 N., R. 19 W., in SW 1/4 sec. 18, 38 ft. S. and 24 ft. W. from T-rd. W., in root on N. side of triple birch tree; copper nail and washer	899.52
T. 63 N., R. 20 W., in center of SE 1/4 sec. 13, 18 ft. S. and 225 ft. W. from Chicago, Burlington & Quincy R.R. at E.-W. rd. crossing, in root on NE. side of 20-in. maple tree; copper nail and washer	869.59
State Highway 5 at private rd. E., 10 ft. N. and 70 ft. E. from, on E. end of iron pipe culvert; chiseled square	977.82
T. 63 N., R. 20 W., near E. sixteenth cor. between secs. 14 and 23, 12 ft. S. and 58 ft. W. from State Highway 5 at crossroad, on S. end of concrete culvert; chiseled square	963.78
T. 63 N., R. 20 W., near quarter cor. between secs. 14 and 23, at T-rd. S., in deep drain, on N. end of concrete culvert; chiseled square	931.92
T. 63 N., R. 20 W., cor. secs. 14, 15, 22, and 23, 375 ft. N. and 20 ft. W. from crossroads, in root on W. side of 18-in. maple tree; copper nail and washer	988.89
T. 63 N., R. 20 W., near quarter cor. between secs. 15 and 22, at NE. corner of bridge over Elmwood Branch, in top of abutment post; crossed nails	886.30
T. 63 N., R. 20 W., near cor. secs. 15, 16, 21, and 22, 12 ft. N. and 110 ft. E. from T-rd. E., in root on W. side of 8-in. elm tree; copper nail and washer	973.72
T. 63 N., R. 20 W., in NE 1/4 sec. 21, 35 ft. N. and 15 ft. W. from rd. forks N., SW., and SE., 2 ft. inside fence; iron post stamped "Prim Trav Sta No 17 1913 Mo"	987.147

T. 63 N., R. 20 W., in SE 1/4 sec. 17, 40 ft. S. and 15 ft. W. from T-rd. S., in root on SE. side of 18-in. white-oak tree; copper nail and washer	Feet 843.55
T-rd. W., 18 ft. S. and 700 ft. W. from, in root on N. side of twin elm tree; crossed nails	820.24
T. 63 N., R. 20 W., quarter cor. between secs. 17 and 18, 1 1/4 ft. S. and 110 ft. E. from T-rd. S., in root on N. side of twin 8-in. elm tree; copper nail and washer	834.09
T. 63 N., R. 20 W., in SE 1/4 sec. 18, 63 ft. N. and 35 ft. E. from NE. corner of dwelling of L. T. Stroud, 25 ft. W. of end of rd., in concrete post; standard tablet stamped "2 K 1936"	862.906
Reference mark, about 70 ft. SW. of tablet; in root on S. side of triple elm tree; crossed nails	869.82
T. 63 N., R. 21 W., in NE 1/4 sec. 24, 18 ft. E. of SE. corner of foundation of old dwelling, 90 ft. N. of rd., in root on side of 20-in. elm tree; copper nail and washer	994.06
T-rd. S., 120 ft. S. and 12 ft. E. from, in root on N. side of 2 1/2-in. locust tree; crossed nails	989.60

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

T. 63 N., R. 21 W., cor. secs. 14, 15, 22, and 23, 20 ft. N. and 23 ft. E. from T-rd. N.; iron post stamped "Prim Trav Sta No 16 1913 Mo"	970.272
Reference mark, 65 ft. N. and 20 ft. E. from post, on top of doorway to concrete cellar; chiseled square	970.59

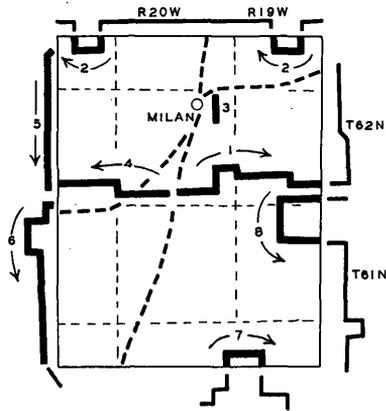
10. LINE TO DETERMINE ELEVATION OF PAGE TRIANGULATION STATION
(by H. B. Pyle in 1936)

T. 63 N., R. 19 W., cor. secs. 8, 9, 16, and 17, 135 ft. SE. of T-rd. E., 12 ft. SE. of State Highway 6, on head wall of concrete culvert; chiseled square	1,042.06
Wooden bridge over drain, in SW. abutment of; crossed nails	991.54
Page triangulation sta.; U.S.C. & G.S. standard disk stamped "Page 1934"	1,045.114
Reference mark 1; U.S.C. & G.S. standard reference disk stamped "Page No 1 1934"	1,045.829
Reference mark 2; U.S.C. & G.S. standard reference disk stamped "Page No 2 1934"	1,046.894

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.

MILAN QUADRANGLE
(Latitude 40°00'-40°15'; longitude 93°00'-93°15')

Linn and Sullivan Counties



1. FROM SEC. 34, T. 62 N., R. 20 W., EAST INTO WINIGAN QUADRANGLE AT SEC. 26, T. 62 N., R. 19 W. (by H. W. Gross in 1936)

U.S.C. & G.S. standard disk stamped "Q 10 1930"	796.832
T. 62 N., R. 20 W., on 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; crossed nails	793.98
T. 62 N., R. 20 W., in NW 1/4 sec. 35, 225 ft. N. and 80 ft. E. from rd. fork, 60 ft. S. of farmhouse, in root on SW. side of 16-in. elm tree; copper nail and washer	896.39
T. 62 N., R. 20 W., near center sec. 26, 20 ft. N. of rd. fork NW., in concrete post; standard tablet stamped "T T C W A 1934"	934.493
T. 62 N., R. 20 W., in NW 1/4 sec. 25, 20 ft. S. and 220 ft. W. from rd. fork, in root on NW. side of 12-in. maple tree; crossed nails	946.71

	<u>Feet</u>
T. 62 N., R. 20 W., near W. sixteenth cor. between secs. 24 and 25, 150 ft. N. and 20 ft. W. from rd. forks, in root on N. side of 14-in. post-oak tree; copper nail and washer	960.89
T-rd. N., 75 ft. S. of, in root on SE. side of 8-in. post-oak tree; crossed nails	946.27
T. 62 N., R. 20 W., E. cor. secs. 24 and 25, 40 ft. S. and 40 ft. W. from T-rd. W., in root on SW. side of 12-in. hickory 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 14-in. elm tree; crossed nails	914.33
T. 62 N., R. 19 W., 0.2 mi. W. of cor. secs. 19, 20, 29, and 30, 75 ft. S. and 25 ft. E. from bridge over drain, in root on N. side of 40-in. elm tree; copper nail and washer	837.34
T. 62 N., R. 19 W., cor. secs. 19, 20, 29, and 30, 800 ft. S. and 50 ft. E. from T-rd. W., 12 ft. N. and 35 ft. E. from NW. corner of cemetery, in concrete post; standard tablet stamped "T T 778 C W A 1934"	856.785
Reference mark, 15 ft. S. and 27 ft. E. from tablet, in root on SW. side of 20-in. black-locust tree; copper nail and washer	856.03
T. 62 N., R. 19 W., near quarter cor. between secs. 29 and 30, at T-rd. E., on top of concrete curb at NW. corner of iron bridge; chiseled square	828.91
T. 62 N., R. 19 W., quarter cor. between secs. 28 and 29, 25 ft. N. and 85 ft. E. from T-rd. S. and lane N. at quarter cor. between secs. 28 and 29, in root on SW. side of 24-in. elm tree; copper nail and washer	931.12
T. 62 N., R. 19 W., 0.3 mi. W. of quarter cor. between secs. 27 and 28, 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	985.82
T. 62 N., R. 19 W., quarter cor. between secs. 27 and 28, 270 ft. S. and 25 ft. W. from T-rd. W., in NW. side of 24-in. willow tree; spike	933.10
T. 62 N., R. 19 W., cor. secs. 27, 28, 33, and 34, 40 (? 35) ft. S. of T-rd. N., in concrete post; standard tablet stamped "T T 779 C W A 1934"	993.372
T. 62 N., R. 19 W., on line between secs. 27 and 34, 25 ft. N. of rd. at top of hill, in root on SW. side of 20-in. black-locust tree; crossed nails	957.50
T. 62 N., R. 19 W., 0.2 mi. E. of cor. secs. 26, 27, 34, and 35, 450 ft. NW. of bridge over Yellow Creek, 25 ft. N. and 50 ft. W. from rd. at small drain, in root on S. side of 36-in. black-oak tree; copper nail and washer	866.21

(Continued in Winigan quadrangle; see line 4.)

2. FROM BOYNTON QUADRANGLE AT SEC. 22, T. 63 N., R. 19 W., WEST INTO BOYNTON QUADRANGLE AT SEC. 23, T. 63 N., R. 21 W. (by W. V. Kennedy in 1936)

(Continued from Boynton quadrangle; see line 9.)

T. 63 N., R. 19 W., center sec. 22, 15 ft. N. and 12 ft. E. from T-rd. S., on N. head wall of concrete culvert; chiseled square	1,003.68
T. 63 N., R. 19 W., quarter cor. between secs. 21 and 22, 450 ft. E. of T-rd. N., on NW. wing wall of concrete bridge; chiseled square	931.78
T. 63 N., R. 19 W., quarter cor. between secs. 20 and 21, 100 ft. N. and 35 ft. W. from State Highway 6 at rd. E., 3 ft. inside fence, in concrete post; standard tablet stamped "1 K 1936"	1,025.858
Reference mark 1, SE. of junction of rd. E., on concrete head wall of culvert; chiseled square	1,020.56
Reference mark 2, NW. of junction of rd. E., on concrete head wall of culvert; chiseled square	1,021.29

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

T. 63 N., R. 21 W., quarter cor. between secs. 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
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(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. Pyle in 1936)

U.S.C. & G.S. standard disk stamped "G 17 1933"	871.671
Milan, 0.4 mi. S. of Quincy, Omaha & Kansas City R.R. sta., at rd. crossing; top of E. rail	832.7
Milan triangulation sta.; U.S.C. & G.S. standard disk stamped "Milan Triangulation Station"	968.783
Reference mark 1; U.S.C. & G.S. standard reference disk stamped "Milan No 1 1934"	969.136
Azimuth mark; U.S.C. & G.S. standard reference disk stamped "Milan Azi 1934"	965.308
U.S.C. & G.S. standard disk stamped "F 17 1933"	834.493

4. FROM SEC. 34, 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. B. Pyle in 1936-37)

	<u>Feet</u>
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 N. side of 34-in. elm tree; crossed nails	828.00
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	895.21
T. 62 N., R. 20 W., cor. secs. 27, 28, 33, 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	835.52
T. 62 N., R. 20 W., cor. secs. 26, 29, 32, and 33, 40 ft. S. and 1,100 ft. E. from, 40 ft. S. and 200 ft. W. from State Highways 5 and 6 at rd. E., on SW. corner of concrete head wall of culvert; chiseled square	936.57
T. 62 N., R. 20 W., 0.3 mi. W. of cor. secs. 28, 29, 32, and 33, 30 ft. S. and 4 ft. E. from junction of private rd. S. and produced rd. W., on E. end of concrete culvert; chiseled square	880.87
T. 62 N., R. 20 W., in SW 1/4 sec. 29, 45 ft. S. and 25 ft. W. from junction of rd. S., in N. side of corner fence post; spike	855.14
T. 62 N., R. 20 W., in SE 1/4 sec. 30, 12 ft. S. of highway, on SE. abutment of concrete bridge over Locust Creek; chiseled square	792.30
Roger, 60 ft. N. and 20 ft. W. from crossroad, on W. head wall of concrete culvert; chiseled square	785.48
U.S.C. & G.S. standard disk stamped "J 17 1933"	816.455
T. 62 N., R. 21 W., in S 1/2 sec. 25, 25 ft. N. of highway, on N. head wall of concrete culvert; chiseled square	806.10
T. 62 N., R. 21 W., in SW 1/4 sec. 25, 38 ft. S. and 4 ft. W. from highway at fence N., in concrete post; standard tablet stamped "T 775 C W A 1934"	817.042
T. 62 N., R. 21 W., cor. secs. 25, 26, 35, and 36, 300 ft. N. and 160 ft. W. from, 15 ft. S. of highway, on SW. abutment of concrete bridge over West Locust Creek; chiseled square	803.92
T. 62 N., R. 21 W., on line between secs. 26 and 35, 35 ft. S. and 25 ft. W. from crossroad, on W. end of concrete culvert; chiseled square	839.65
T. 62 N., R. 21 W., W. sixteenth cor. sec. 35, 80 ft. N. and 240 ft. E. from, 35 ft. S. of highway, on SE. head wall of concrete culvert; chiseled square	824.66
Concrete culvert, 17 ft. S. of highway, on center of S. head wall; chiseled square	834.72
T. 62 N., R. 21 W., in NW 1/4 sec. 34, 21 ft. S. and 18 ft. E. from junction of rd. S., on E. head wall of concrete culvert; chiseled square	854.21
T. 62 N., R. 21 W., in E 1/2 sec. 33, 30 ft. S. and 10 ft. E. from crossroad, on E. head wall of concrete culvert; chiseled square	904.86

5. FROM SEC. 20, T. 63 N., R. 21 W., SOUTH TO SEC. 33, T. 62 N., R. 21 W. (by H. B. Pyle in 1936-37) *

T. 63 N., R. 21 W., cor. secs. 20, 21, 28, and 29, 210 ft. S. and 300 ft. E. from crossroads, in yard of Prairie Dale School, in concrete post; standard tablet stamped "769 C W A 1934"	951.446
T. 63 N., R. 21 W., N. sixteenth cor. sec. 28, 28 ft. W. of NW. corner of farmhouse of R. F. Scott, 30 ft. E. of rd., in root on SW. side of 20-in. pine tree; copper nail and washer	954.88
T-rd. E., 25 ft. N. and 15 ft. W. from, on top of concrete fence post; chiseled square	917.21
T. 63 N., R. 21 W., quarter cor. between secs. 28 and 33, 36 ft. E. of NE. corner of Caldwell farmhouse, 10 ft. W. of N.-S. rd., in root on SE. side of 20-in. elm tree; copper nail and washer	900.23
Steel bridge over drain, on NE. abutment; chiseled square	868.07
Tps. 62 and 63 N., R. 21 W., approximate quarter cor. between secs. 4 and 33, 110 ft. N. and 15 ft. E. from T-rd. E., in root on W. side of 34-in. cottonwood tree; copper nail and washer	918.85
T. 62 N., R. 21 W., about 0.1 mi. E. of N. sixteenth cor. sec. 4, 400 ft. NW. of dwelling of R. S. Bartimus, 5 ft. N. and 25 ft. W. from rd. at fence E. and W., in concrete post; standard tablet stamped "770 C W A 1934"	881.734
T-rd. S., 225 ft. S. of, on NE. abutment of wooden bridge; chiseled square	825.76
T. 62 N., R. 21 W., quarter cor. between secs. 4 and 9, 40 ft. N. and 30 ft. E. from rd. corner S.-E., in SW. corner of farmyard of H. Hatcher, in root on E. side of 30-in. box-elder tree; copper nail and washer	914.21
Steel bridge over drain, on NW. abutment; chiseled square	851.15
T-rd. W., on SE. corner of concrete culvert; chiseled square	898.40
T. 62 N., R. 21 W., near E. sixteenth cor. between secs. 9 and 16, 45 ft. E. of rd., 10 ft. E. of N.-S. fence, in root on S. side of 20-in. elm tree; copper nail and washer	851.07
Crossroads, 10 ft. E. of, on NE. abutment of bridge over drain; chiseled square	873.43
T. 62 N., R. 21 W., quarter cor. between secs. 16 and 21, 445 ft. S. and 23 ft. E. from rd. at fences E. and W., 35 ft. E. of rd., in concrete post; standard tablet stamped "771 C W A 1934"	943.091
T. 62 N., R. 21 W., center sec. 21, 65 ft. S. and 25 ft. W. from T-rd. N., in root on W. side of 24-in. walnut tree; copper nail and washer	866.89
T. 62 N., R. 21 W., center sec. 28, 10 ft. N. and 125 ft. E. from T-rd. S., in middle pier on N. side of wooden bridge; copper nail and washer	877.01
Junction of abandoned rd. E., 180 ft. S. and 10 ft. E. from, in NE. corner of wooden bridge over drain; copper nail	833.72

*Published also as line 2 of the Galt quadrangle (see Bull. 898-D, pp. 457-458).

	<u>Feet</u>
State Highway 6 at crossroad, 30 ft. S. and 10 ft. E. from, on E. head wall of concrete culvert; chiseled square	904.86
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"	918.171
6. FROM SEC. 33, T. 62 N., R. 21 W., SOUTH INTO CHULA QUADRANGLE AT SEC. 21, T. 60 N., R. 21 W. (by H. E. Pyle and F. Y. Brown in 1937) *	
T-rd. E., 15 ft. S. and 18 ft. E. from, on S. head wall of concrete culvert; chiseled square	861.76
T. 61 N., R. 21 W., N. sixteenth 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	856.55
U.S.C. & G.S. standard disk stamped "L 17 1933"	813.384
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 N. side of 48-in. elm tree; copper nail and washer	851.93
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 40-in. elm tree; copper nail and washer	913.27
T. 61 N., R. 21 W., W. sixteenth 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	951.24
T-rd. E., 95 ft. S. and 15 ft. E. from, on E. end of iron pipe culvert; chiseled square	939.32
Whaley triangulation sta.; U.S.C. & G.S. standard disk stamped "Whaley 1928"	952.948
Reference mark 3; U.S.C. & G.S. standard reference disk stamped "Whaley No 3 1928"	951.310
T. 61 N., R. 21 W., N. sixteenth 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	940.08
T. 61 N., R. 21 W., N. sixteenth cor. between secs. 16 and 17, 60 ft. S. and 40 ft. W. from T-rd. W., in root on W. side of 30-in. elm tree; copper nail and washer	899.70
T. 61 N., R. 21 W., cor. secs. 16, 17, 20, and 21, 130 ft. W. of crossroads, 40 ft. N. of rd., on SW. corner of concrete step in front of Hamilton Church; chiseled square	914.45
T. 61 N., R. 21 W., quarter cor. between secs. 20 and 21, 290 ft. S. and 23 ft. E. from, 0.5 mi. S. of crossroads at Hamilton School, 23 ft. E. of rd., in concrete post; standard tablet stamped "773 C W A 1934"	922.002
T. 61 N., R. 21 W., cor. secs. 20, 21, 28, and 29, 15 ft. N. and 15 ft. E. from crossroads, on E. end of iron pipe culvert; painted square	920.98
T. 61 N., R. 21 W., cor. secs. 28, 29, 32, and 33, 15 ft. N. and 13 ft. W. from crossroads, on W. end of iron pipe culvert; painted square	887.49
T-rd. S., 30 ft. N. and 25 ft. E. from, on top of S. side of concrete well platform; chiseled square	864.68
T-rd. N., 25 ft. N. and 20 ft. W. from, 1 ft. above ground, in knot on E. side of corner fence post; crossed nails	882.84
T. 60 N., R. 21 W., N. quarter cor. sec. 9, 29 ft. S. and 18 ft. W. from T-rd. S., in concrete post; standard tablet stamped "774 C W A 1934"	875.231
T. 60 N., R. 21 W., near center sec. 16, 700 ft. N. of T-rd. W., 530 ft. S. of T-rd. E., 20 ft. E. of rd., in root on W. side of 32-in. elm tree; copper nail and washer	865.95
T. 60 N., R. 21 W., S. sixteenth cor. sec. 21, 140 ft. N. and 60 ft. E. from T-rd. E., in root on S. side of 8-in. black-locust tree; copper nail and washer	807.44

(Continued in Linneus quadrangle; see line 4.)

7. FROM LINNEUS QUADRANGLE AT SEC. 25, T. 60 N., R. 20 W., EAST INTO LINNEUS QUADRANGLE AT SEC. 20, T. 60 N., R. 19 W. (by H. E. Pyle and F. Y. Brown in 1937)	
(Continued from Linneus quadrangle; see line 5.)	
T. 60 N., Rs. 19 and 20 W., cor. secs. 19, 24, 25, and 30, 130 ft. S. and 20 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 3 F 1924"	872.134
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	930.04

(Continued in Linneus quadrangle; see line 5.)

8. FROM WINIGAN QUADRANGLE AT SEC. 35, T. 62 N., R. 19 W., SOUTH INTO WINIGAN QUADRANGLE AT SEC. 14, T. 61 N., R. 19 W. (by F. Y. Brown in 1937)	
(Continued from Winigan quadrangle; see line 7.)	
T. 62 N., R. 19 W., in NW 1/4 sec. 35, on pier at SW. corner of bridge over Yellow Creek, on bolt head; chiseled cross	870.77
Tps. 61 and 62 N., R. 19 W., cor. secs. 3, 4, 33, and 34, 100 ft. S. and 40 ft. E. from E.-W. jog in rd., in farmyard, in root on W. side of 16-in. maple tree; copper nail and washer	990.99
T. 61 N., R. 19 W., quarter cor. between secs. 3 and 4, 315 ft. S. of T-rd. W. and abandoned rd. E., 15 ft. E. of rd., in W. side of 10-in. elm tree; copper nail and washer	919.07

*Published also as line 4 of the Galt quadrangle (see Bull. 898-D, p. 459).

T. 61 N., R. 19 W., cor. secs. 3, 4, 9, and 10, 45 ft. E. of T-rd. W., in root on W. side of 16-in. locust tree; copper nail and washer	Feet 989.56
Taylor triangulation sta.; U.S.C. & G.S. standard disk stamped "Taylor Triangulation Station 1934"	1,007.646
T. 61 N., R. 19 W., cor. secs. 10, 11, 14, and 15, 100 ft. S. of T-rd. NW., 20 ft. W. of rd., in root on N. side of 10-in. cedar tree; copper nail and washer	980.00

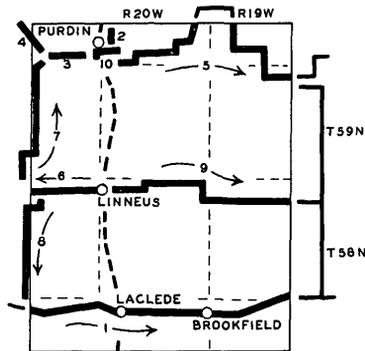
(Continued in Winigan quadrangle; see line 7.)

For additional level lines along Chicago, Burlington & Quincy R.R. and Quincy, Omaha & Kansas City R.R., refer to United States Coast and Geodetic Survey first-order lines, Minneapolis, Minn. to Glasgow, Mo.; Quincy, Ill. to Milan, Mo.; and Milan, Mo. to Hamburg, Iowa.

LINNEUS QUADRANGLE

(Latitude 39°45' - 40°00'; longitude 93°00' - 93°15')

Linn County



1. FROM CHULA QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILWAY BY WAY OF LACLEDE AND BROOKFIELD INTO BUCKLIN QUADRANGLE (by S. R. 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 *	691.51
T. 57 N., R. 21 W., about 660 ft. W. of quarter cor. between secs. 2 and 3, in top of S. end of W. concrete pier of bridge 112.60 over Locust Creek; standard tablet stamped "1920 Mo 694"	693.005
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	691.83
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	692.04
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	696.38
T. 57 N., R. 21 W., 115 ft. W. of E. quarter cor. sec. 1, in fence line N. of R.R., in root on S. side of 24-in. locust tree; copper nail and washer	722.45
T. 57 N., R. 20 W., near center sec. 6, N. of R.R., on top of N. end of 78-in. concrete pipe culvert; chiseled square	730.50
Laclede, in SE. corner of park, 18 ft. N. and 45 ft. W. from rd. crossing; iron post stamped "Prim Trav Sta No 15 F 1924"	790.600
Laclede, SW. corner of main track at rd. crossing; top of rail	785.3
T. 57 N., R. 20 W., near W. sixteenth cor. sec. 4, 230 ft. W. of dwelling, on top of S. head wall of concrete culvert; chiseled square	752.56
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	739.70
T. 57 N., R. 20 W., near W. sixteenth cor. sec. 3, S. of R.R., in field, in root on N. side of 24-in. oak tree; copper nail and washer	779.51
T. 57 N., R. 20 W., in E 1/2 sec. 3, 415 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 14 F 1924 1920 Mo 755"	754.313
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	799.58
Brookfield, at SW. corner of Pennsylvania Avenue crossing, on top of SE. corner of concrete base of electric warning bell; chiseled square	771.27
Brookfield, E. of sta., at Main Street crossing; top of N. rail	758.2
Brookfield, 5 ft. N. of NE. corner of R.R. ice house; top of concrete base of wooden support to platform	755.22

*Published in Chula quadrangle; see Bull. 898-D, p. 461).

	<u>Feet</u>
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 12 F 1924 1920 Mo 768"	767.014
Brookfield, 60 ft. N. of intersection of Main and John Streets, 6 ft. N. of flagpole; iron post stamped "Prim Trav Sta No 13 F 1924 1920 Mo 782"	781.021
Brookfield, 0.3 mi. E. of sta., at NE. corner of bridge 103.83 over Monroe Street, on base of corner post; chiseled square	752.58
T. 57 N., R. 19 W., in sec. 5, on top of N. end of parapet wall of E. abutment of bridge 102.99; chiseled square	730.81
T. 57 N., R. 19 W., near quarter cor. between secs. 4 and 5, on top of N. end of W. abutment of bridge 102.60 over Yellow Creek; chiseled square	735.81
T. 57 N., R. 19 W., in NW 1/4 sec. 3, on top of S. end of concrete pipe culvert; chiseled square	787.34
T. 57 N., R. 19 W., in NW 1/4 sec. 2, overhead highway bridge 100.48, at foot of bent 6 ft. N. of track, in top of E. end of 12- by 12-in. timber set in top of piling; copper nail and washer	834.59

(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 (by H. B. Pyle in 1937)

U.S.C. & G.S. standard disk stamped "V 10 1930"	745.638
Purdin, about 3 mi. N. of, 85 ft. W. of R.R., 12 ft. E. of highway, on SE. pier of bridge J-96; chiseled square	744.17
Purdin, about 2 mi. N. of, cor. Tps. 59 and 60 N., Rs. 20 and 21 W., 21 ft. S. and 30 ft. E. from crossroad, 55 ft. E. of rd. S., on N. head wall of concrete culvert; chiseled square	802.21
U.S.C. & G.S. standard disk stamped "W 10 1930"	819.887

3. FROM SEC. 36, T. 60 N., R. 21 W., WEST TO SEC. 34, T. 60 N., R. 21 W. (by H. B. Pyle in 1937)

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. Bledsoe, in root on S. side of 36-in. elm tree; copper nail and washer	751.85
T. 60 N., R. 21 W., in NW 1/4 sec. 36, on SE. corner of bridge over Locust Creek; painted square	738.20
T. 60 N., R. 21 W., near W. sixteenth cor. between secs. 25 and 36, 125 ft. E. of T-rd. N., on NE. pier of bridge over West Locust Creek; painted square	735.41
T. 60 N., R. 21 W., near W. sixteenth cor. sec. 35, 55 ft. N. of rd., in barnyard of Emmet Palmer, on concrete base of well; painted square	737.36
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	842.16
T. 60 N., R. 21 W., quarter cor. between secs. 27 and 34, 50 ft. N. and 20 ft. W. from crossroads, in root on W. side of 18-in. hedge-tree stump; copper nail and washer	852.70
T. 60 N., R. 21 W., cor. secs. 27, 28, 33, and 34, 30 ft. S. and 35 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 51 S 1921 Mo"	834.476

4. FROM GALT QUADRANGLE AT SEC. 21, T. 60 N., R. 21 W., SOUTH TO SEC. 29, T. 60 N., R. 21 W., INCLUDING THAT PART OF THE LINE IN CHULA QUADRANGLE (by H. B. Pyle and F. Y. Brown in 1937)

(Continued from Milan quadrangle; see line 6.)

T. 60 N., R. 21 W., quarter cor. between secs. 21 and 28, 440 ft. S. of T-rd. W., 40 ft. W. of rd., in SW. corner of farmyard of H. L. Benskin, in root on W. side of 26-in. cottonwood tree; crossed nails	850.10
T. 60 N., R. 21 W., near center sec. 28, at rd. corner from N.-E., in root on E. side of 16-in. maple tree; copper nail and washer	845.51
T. 60 N., R. 21 W., quarter cor. between secs. 27 and 28, 20 ft. E. of T-rd. W., in root on S. side of 16-in. elm tree; copper nail and washer	759.35
T. 60 N., R. 21 W., near E. sixteenth cor. between secs. 29 and 32, 25 ft. N. and 40 ft. W. from junction of private rd. S., in root on E. side of 12-in. elm tree; copper nail and washer	824.08

5. FROM SEC. 31, T. 60 N., R. 20 W., EAST AND SOUTH INTO BUCKLIN QUADRANGLE AT SEC. 2, T. 59 N., R. 19 W. (by H. B. Pyle and F. Y. Brown in 1937)

Tps. 59 and 60 N., R. 20 W., W. sixteenth cor. between secs. 6 and 31, 30 ft. N. and 30 ft. W. from T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 1 F 1924"	825.789
T. 60 N., R. 20 W., in sec. 31, 10 ft. S. of rd., in SE. corner of bridge over creek; crossed nails	742.90
T. 60 N., R. 20 W., in N 1/2 sec. 31, 345 ft. S. and 35 ft. W. from T-rd. E., in root on N. side of 30-in. maple tree; copper nail and washer	821.28
T. 60 N., R. 20 W., in N 1/2 sec. 31, 6 ft. N. and 385 ft. E. from T-rd. E., in NW. pier of bridge over drain; crossed nails	774.18
T. 60 N., R. 20 W., N. sixteenth cor. sec. 32, 15 ft. N. and 240 ft. W. from T-rd. W., in root on SW. side of 14-in. hackberry tree; copper nail and washer	797.96
T. 60 N., R. 20 W., near E. sixteenth cor. between secs. 29 and 32, 12 ft. S. and 312 ft. W. from T-rd. N., in SE. abutment of wooden culvert; crossed nails	815.31

	Feet
T. 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	782.55
T. 60 N., R. 20 W., on line between secs. 28 and 33, 10 ft. S. of rd., in pier on SW. end of bridge over drain; crossed nails	812.70
T. 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 2 F 1924"	886.404
T. 60 N., R. 20 W., near cor. secs. 26, 27, 34, and 35, 130 ft. S. and 40 ft. W. from T-rd. W., in root on N. side of 40-in. elm tree; copper nail and washer	882.86
T. 60 N., R. 20 W., S. sixteenth cor. between secs. 26 and 27, 175 ft. S. and 12 ft. W. from T-rd. E., in SW. corner of bridge; crossed nails	840.15
T. 60 N., R. 20 W., quarter cor. between secs. 25 and 26, 25 ft. N. and 21 ft. W. from rd. corner S.-E. and abandoned rd. N., in root on S. side of 12-in. maple tree; copper nail and washer	881.83
T. 60 N., Rs. 19 and 20 W., quarter cor. between secs. 25 and 30, 530 ft. N. and 25 ft. W. from T-rd. W., in root on NE. side of 24-in. elm tree; copper nail and washer	901.31

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

T. 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 SW. corner of concrete well platform; chiseled square	901.41
T. 60 N., R. 19 W., cor. secs. 21, 22, 27, and 28, 30 ft. S. and 30 ft. W. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 4 F 1924"	865.974
T. 60 N., R. 19 W., cor. secs. 27, 28, 33, and 34, 140 ft. S. and 80 ft. E. from crossroads, in root on W. side of large maple tree; copper nail and washer	923.79
Tps. 59 and 60 N., R. 19 W., cor. secs. 3, 4, 33, and 34, County Route V at junction of rds., on base of windmill platform; chiseled square	919.28
T. 59 N., R. 19 W., cor. secs. 3, 4, 9, and 10, 700 ft. E. of junction 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
T. 59 N., R. 19 W., cor. secs. 2, 3, 10, and 11, 25 ft. S. and 30 ft. W. from County Route C at crossroad, in concrete post; standard tablet stamped "Prim Trav Sta No 5 F 1924"	822.812

(Continued in Bucklin quadrangle; see line 4.)

6. FROM LINNEUS WEST INTO CHULA QUADRANGLE AT SEC. 4, T. 58 N., R. 21 W. (by F. Y. Brown in 1937)

Linneus, in SW. corner of courthouse yard, 10 ft. E. of sidewalk, in concrete post; standard tablet stamped "Prim Trav Sta No 17 F 1924"	837.187
Linneus, 0.9 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
T. 58 N., R. 21 W., N. sixteenth cor. sec. 3, 40 ft. E. of T-rd. N., in corner of farmyard, in root on N. side of 20-in. locust tree; crossed nails	747.74
Tps. 58 and 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 S 1921 Mo"	801.358

7. FROM SEC. 32, T. 59 N., R. 21 W., NORTH TO SEC. 33, T. 60 N., R. 21 W., INCLUDING THAT PART OF THE LINE IN CHULA QUADRANGLE (by F. Y. Brown in 1937)*

T. 59 N., R. 21 W., N. sixteenth cor. between secs. 32 and 33, 300 ft. E. of N. end of 100-ft. N.-S. jog in crossroads, 20 ft. N. of rd., in root on E. side of 16-in. elm tree; copper nail and washer	831.95
T. 59 N., R. 21 W., cor. secs. 27, 28, 33, and 34, 240 ft. W. of T-rd. N., 20 ft. S. of rd., in farmyard, in root on N. side of twin 20-in. black-locust tree; copper nail and washer	786.51
T. 59 N., R. 21 W., in NE 1/4 sec. 34, 30 ft. N. and 15 ft. E. from E. end of bridge over Locust Creek, on N. side of 22-in. elm tree; bolt head (set by water-resources branch of U.S. Geol. Survey)	715.62
T. 59 N., R. 21 W., cor. secs. 21, 22, 27, and 28, 160 ft. N. of T-rd. W., 15 ft. W. of rd., on head wall of concrete culvert; chiseled square	762.89
Church, on NW. corner of top concrete step; chiseled square	809.45
T. 59 N., R. 21 W., cor. secs. 15, 16, 21, and 22, 15 ft. N. and 25 ft. E. from crossroads, in root on S. side of 16-in. elm tree; copper nail and washer	782.33
T. 59 N., R. 21 W., 380 ft. N. of quarter cor. between secs. 15 and 16, 25 ft. E. of rd. in line with S. side of dwelling; standard tablet stamped "T 1 W 1936"	848.883
T. 59 N., R. 21 W., cor. secs. 9, 10, 15, and 16, 280 ft. S. and 20 ft. W. from crossroads, in root on N. side of 20-in. maple tree; copper nail and washer	818.75
T. 59 N., R. 21 W., cor. secs. 3, 4, 9, and 10, 25 ft. N. and 45 ft. E. from crossroads, in root on W. side of 22-in. walnut tree; copper nail and washer	783.76
Tps. 59 and 60 N., R. 21 W., cor. secs. 3, 4, 33, and 34, 140 ft. S. and 50 ft. E. from crossroads, at SW. corner of school, on concrete door-step; chiseled square	829.34

* Published also as line 8 of the Chula quadrangle (see Bull. 898-D, p. 464).

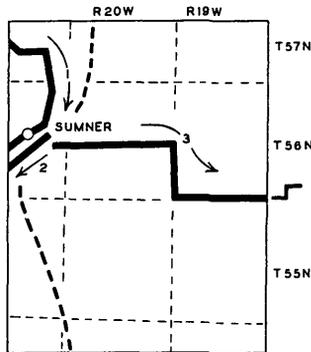
8. FROM SEC. 3, T. 58 N., R. 21 W., SOUTH TO SEC. 3, T. 57 N., R. 21 W., INCLUDING THAT PART OF THE LINE IN CHULA QUADRANGLE (by F. Y. Brown in 1937)*	
T. 58 N., R. 21 W., N. sixteenth cor. sec. 3, 40 ft. E. of T-rd. N., in corner of farmyard, in root on N. side of 20-in. locust tree; crossed nails	Feet 747.74
T. 58 N., R. 21 W., cor. secs. 3, 4, 9, and 10, 20 ft. N. and 25 ft. E. from T-rd. W., in root on N. side of 14-in. cottonwood tree; copper nail and washer	725.23
T. 58 N., R. 21 W., near quarter cor. between secs. 9 and 10, 60 ft. S. and 20 ft. E. from T-rd. E., in root on W. side of 30-in. mulberry tree; copper nail and washer	739.45
T-rd. S., 20 ft. S. and 20 ft. W. from, in corner fence post, at surface of ground; spike	744.60
T. 58 N., R. 21 W., cor. secs. 15, 16, 21, and 22, 30 ft. N. and 3 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 2 W 1936"	716.088
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	725.97
T. 58 N., R. 21 W., cor. secs. 27, 28, 33, and 34, 20 ft. E. of rd. corner from N.-W., in root on W. side of twin 14-in. elm tree; copper nail and washer	754.77
T. 58 N., R. 21 W., quarter cor. between secs. 28 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	780.25
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	748.97
T. 57 N., R. 21 W., N. cor. secs. 3 and 4, 33 ft. S. and 48 ft. W. from T-rd. S., in concrete post; standard tablet stamped "T T 3 W 1936"	707.331
Chicago, Burlington & Quincy R.R. at rd. crossing, in floor; top of spike	734.50
9. FROM LINNEUS EAST INTO BUCKLIN QUADRANGLE AT SEC. 2, T. 58 N., R. 19 W. (by F. Y. Brown in 1937)	
U.S.C. & G.S. standard disk stamped "A 11 1930"	819.562
U.S.C. & G.S. standard disk stamped "Magnetic Station 1917"	804.148
Linneus, 0.7 mi. E. of, 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	826.07
Linneus, 1.8 mi. E. of, in NE 1/4 sec. 5, T. 58 N., R. 20 W., 110 ft. S. and 140 ft. W. from T-rd. W., on concrete well top; chiseled square	836.03
Tps. 58 and 59 N., R. 20 W., W. sixteenth cor. between secs. 4 and 33, 25 ft. N. and 30 ft. E. from T-rd. N., in base of corner fence post; spike	851.38
Tps. 58 and 59 N., R. 20 W., 20 ft. N. of cor. secs. 3, 4, 33, and 34, 90 ft. S. and 20 ft. E. from school, in concrete post; standard tablet stamped "Prim Trav Sta No 18 F 1924"	812.923
Tps. 58 and 59 N., R. 20 W., W. sixteenth cor. between secs. 3 and 34, 15 ft. N. and 15 ft. W. from T-rd. N., in base of corner fence post; spike	835.25
Tps. 58 and 59 N., R. 20 W., near cor. secs. 2, 3, 34, and 35, at SE. corner of small bridge, on end of steel beam; painted square	797.50
Tps. 58 and 59 N., R. 20 W., E. sixteenth cor. between secs. 2 and 35, 530 ft. E. of crossroads, 20 ft. N. of rd., in root on E. side of 26-in. elm tree; copper nail and washer	850.31
Tps. 58 and 59 N., R. 20 W., on line between secs. 1 and 36, on S. end of brace beam at SW. corner of bridge over Long Branch; painted square	773.78
Tps. 58 and 59 N., Rs. 19 and 20 W., cor. of, 20 ft. N. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 19 F 1924"	784.331
T. 58 N., R. 19 W., W. cor. secs. 6 and 7, 15 ft. S. and 45 ft. E. from T-rd. E., in root on N. side of 10-in. hedge tree; copper nail and washer	821.36
T. 58 N., R. 19 W., quarter cor. between secs. 5 and 8, 15 ft. N. and 15 ft. W. from crossroads, on W. end of concrete culvert; chiseled square	869.61
T. 58 N., R. 19 W., near W. sixteenth cor. between secs. 4 and 9, 590 ft. W. of T-rd. S., 105 ft. N. of rd., on SE. corner of concrete door step of farmhouse; chiseled square	860.42
T. 58 N., R. 19 W., quarter cor. between secs. 4 and 9, 30 ft. S. and 50 ft. W. from T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 20 F 1924"	801.320
T. 58 N., R. 19 W., near quarter cor. between secs. 3 and 10, 8 ft. N. of rd., on cross beam at NE. corner of bridge over Yellow Creek; chiseled cross	754.90
(Continued in Bucklin quadrangle; see line 5.)	
10. FROM POINT 0.8 MILE SOUTH OF 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"	853.049
Purdin, 12 ft. SE. of entrance to Bank of Purdin, at NW. corner of junction of State Highway 5, on curb; chiseled square	884.07
Purdin, 0.8 mi. E. of, 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	897.85
Purdin triangulation sta.; U.S.C. & G.S. standard disk stamped "Purdin 1928"	915.366

* Published also as line 10 of the Chula quadrangle (see Bull. 898-D, p. 464).

	<u>Feet</u>
Reference mark 2; U.S.C. & G.S. standard reference disk stamped "Purdin No 2 1928"	914.661
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"	760.792
Brookfield, 60 ft. N. of intersection of Main and John Streets, 6 ft. N. of flagpole; iron post stamped "Prim Trav Sta No 13 F 1924 1920 Mo 782"	781.021
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"	785.228
Laclede, in SE. corner of park, 18 ft. N. and 45 ft. W. from rd. crossing; iron post stamped "Prim Trav Sta No 15 F 1924"	790.600
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"	780.661
T. 57 N., R. 20 W., in E 1/2 sec. 3, 415 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 14 F 1924 1920 Mo 755"	754.313
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°45'; 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	675.43
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	710.70
Tps. 56 and 57 N., R. 21 W., cor. secs. 1, 2, 35, and 36, 24 ft. N. and 18 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 18 W 1921 Mo"	730.795
Reference mark, 109 ft. S. of post, in root of 1 1/2-in. walnut tree; copper nail and washer (reported destroyed in 1933)	730.35

(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	733.40
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	716.4
T. 56 N., R. 21 W., at cor. secs. 11, 12, 13, and 14, at junction of T-rd. N. (mark not described)	710.46

	<u>Feet</u>
T. 56 N., R. 21 W., near SW. cor. SE 1/4 sec. 11, at junction of T-rd. S., on E. side of rd., in root of 2 1/2-in. maple tree; copper nail and washer U.S.C. & G.S. standard disk stamped "J 11 1930"	698.02 686.688
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 Route E at rd. N.; iron post stamped "Prim Trav Sta No 17 W 1921 Mo" U.S.C. & G.S. standard disk stamped "K 11 1930"	670.162 681.544
Sumner, 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 SUMNER 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 TPS. 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
Sumner, 1.5 mi. E. of, 20 ft. S. and 10 ft. E. from junction of rd. S., on E. end of iron pipe culvert; (mark not described)	689.84
T. 56 N., R. 21 W., in sec. 24, 20 ft. N. of highway, 6 ft. W. of private farm entrance, 150 ft. E. of hedge, on W. end of iron culvert; painted square	699.00
T. 56 N., Rs. 20 and 21 W., near quarter cor. between secs. 19 and 24, 340 ft. W. of junction of rd. S., 15 ft. NW. of highway at curve N.-W., on end of iron pipe culvert; painted square	717.57
T. 56 N., Rs. 20 and 21 W., cor. secs. 13, 18, 19, and 24, 15 ft. N. and 25 ft. W. from highway at curve S.-E. and produced rd. N., 95 ft. SE. of farmhouse of I. H. Eisele, in fence corner, in concrete post; standard tablet stamped "17 B 1937"	726.137
T. 56 N., R. 20 W., near cor. secs. 17, 18, 19, and 20, 600 ft. W. of crossroad, 15 ft. S. of junction of County Route N, on S. head wall of concrete culvert; chiseled square	718.99
T. 56 N., R. 20 W., near W. sixteenth cor. between secs. 16 and 21, 15 ft. S. of rd., near S. end of W. abutment of bridge over drainage ditch; chiseled square	677.38
T. 56 N., R. 20 W., near cor. secs. 15, 16, 21, and 22, 130 ft. W. of T-rd. N., 20 ft. N. of rd., 20 ft. S. of SE. corner of farmhouse, in root on S. side of 20-in. ash tree; copper nail and washer	691.21
T. 56 N., R. 20 W., cor. secs. 14, 15, 22, and 23, 20 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 31 F 1924"	678.403
T. 56 N., R. 20 W., near cor. secs. 22, 23, 26, and 27, 85 ft. N. and 40 ft. E. from T-rd. E., in root on N. side of 26-in. elm tree; copper nail and washer	719.68
T. 56 N., R. 20 W., near cor. secs. 23, 24, 25, and 26, 540 ft. E. of T-rd. S., 110 ft. S. of rd., in root on N. side of 18-in. elm tree; copper nail and washer	744.03
T. 56 N., Rs. 19 and 20 W., near cor. secs. 19, 24, 25, and 30, 30 ft. N. and 85 ft. W. from State Highway 11 at rd. W., in root on E. side of 28-in. elm tree; copper nail and washer	730.50
T. 56 N., Rs. 19 and 20 W., near N. sixteenth cor. between secs. 31 and 36, at SW. corner 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)	700.346
Tps. 55 and 56 N., Rs. 19 and 20 W., near cor. of, 165 ft. E. of crossroad, 20 ft. S. of rd., in root on W. side of 22-in. elm tree; copper nail and washer	741.14
Tps. 55 and 56 N., R. 19 W., on line between secs. 6 and 31, 20 ft. S. of rd., at entrance to farmhouse of B. E. Smith, on NW. corner of N. end of sidewalk; painted square	774.91
Campfield triangulation sta.; U.S.C. & G.S. standard disk stamped "Campfield 1928"	805.998
Reference mark 1; U.S.C. & G.S. standard reference disk stamped "Campfield No 1 1928"	803.237
T. 56 N., R. 19 W., S. quarter cor. sec. 32, 75 ft. E. of T-rd. N., 20 ft. S. of rd., in root on W. side of 12-in. elm tree; copper nail and washer	793.47
Farmyard, 30 ft. S. of rd., in root on N. side of twin 10-in. cedar tree; crossed nails	775.25
T. 56 N., R. 19 W., S. quarter cor. sec. 33, 25 ft. S. of T-rd. N., in root on E. side of 20-in. black-oak tree; copper nail and washer	771.62
T. 55 N., R. 19 W., N. cor. secs. 3 and 4, 15 ft. N. end 20 ft. W. from T-rd. S., on N. end of iron pipe culvert; painted square	785.46
T. 56 N., R. 19 W., S. quarter cor. sec. 34, 8 ft. S. and 80 ft. W. from T-rd. N., on center of S. head wall of concrete culvert; chiseled square	795.17
T. 55 N., R. 19 W., in NE 1/4 sec. 3, 140 ft. N. and 40 ft. E. from NE. corner of farmhouse of L. F. Pare, 15 ft. S. of rd., in fence line, in concrete post; standard tablet stamped "18 B 1937"	857.149

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

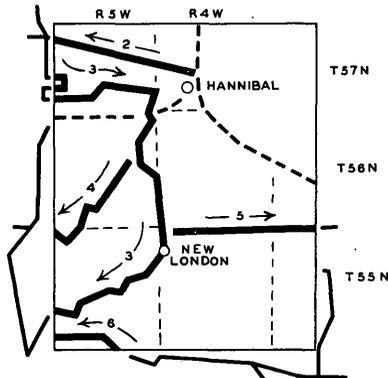
Feet
760.35

(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°45'; longitude 91°15' - 91°30')

Marion, Pike, and Ralls Counties



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

Withers Mill, in NE. corner of Chicago, Burlington & Quincy R.R. sta. platform; copper nail	607.50
Bear Creek, in SE. corner of Chicago, Burlington & Quincy R.R. sta. platform; copper nail	587.00
Oakwood, in SE. corner of Chicago, Burlington & Quincy R.R. sta. platform; copper nail	510.52
Oakwood, in SE. corner of Wabash Ry. sta. platform; copper nail	507.30
U.S.C.E. B.M. designated "16"	489.067

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 B. A. Barnes in 1935)

U.S.C. & G.S. standard disk stamped "C 135 1935"	472.348
U.S.C.E. B.M. designated "540 R 94"	471.188
Hannibal, S. of intersection of North and Bridge Streets, on N. edge of sidewalk; chiseled square	471.36
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	493.29
Mark Twain Avenue and Section Street, NE. of intersection, on curb; painted square	559.44
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	658.90
U.S. Highway 61 at entrance to Riverview Park; surface of highway	721.3
Hannibal triangulation sta.; U.S.C. & G.S. standard disk stamped "Hannibal 1931"	730.851
Top of hill, opposite NE. corner of cemetery, on curb; painted square	707.84
Hannibal, at entrance to Hannibal-La Grange College, 25 ft. N. and 25 ft. E. from crossroad, on concrete curb; chiseled square	659.72
T. 57 N., Rs. 4 and 5 W., cor. secs. 13, 18, 19, and 24, 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 "1443 C W A 1935"	692.383
T. 57 N., R. 5 W., near W. sixteenth cor. between secs. 13 and 24, at junction of rd. S., on E. edge of tile culvert; painted square	713.21
Hannibal, about 4.1 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	703.47
T. 57 N., R. 5 W., near quarter cor. between secs. 14 and 23, at junction of rd. SW., on E. edge of tile culvert; painted square	705.62
T. 57 N., R. 5 W., in SW 1/4 sec. 14, at junction of rd. S.; surface of highway	640.9

*Part of this quadrangle lies in Illinois.

	Feet
Hannibal, about 5.3 mi. NW. of, near line between secs. 14 and 15, T. 57 N., R. 5 W., 440 ft. W. of mail box of Dora 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	682.88
Highway at rd. N., on concrete retaining wall; painted square	664.50
T. 57 N., R. 5 W., cor. secs. 9, 10, 15, and 16, 40 ft. S. and 30 ft. W. from N.-S. crossroad, 50 ft. N. of Mount Zion Church, in concrete post; standard tablet stamped "14142 C W A 1935"	693.123
Top of hill; surface of highway	724.3
T. 57 N., R. 5 W., near E. sixteenth cor. between secs. 8 and 17, 30 ft. S. of highway, 15 ft. E. of rd. S., on concrete base of corner fence post; chiseled square	730.92
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	719.25
(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. 33, T. 57 N., R. 5 W., THENCE NORTH TO U.S. HIGHWAY 36, THENCE EAST ALONG U.S. HIGHWAY 36 TO HANNIBAL, THENCE SOUTH ALONG U.S. HIGHWAY 61 TO NEW LONDON, THENCE SOUTHWEST ALONG STATE HIGHWAY 19 INTO MONROE CITY QUADRANGLE (by B. A. Barnes in 1935)	
(Continued from Monroe City quadrangle; see line 3.)	
T. 57 N., R. 5 W., center sec. 31, 31 ft. S. and 55 ft. E. from U.S. Highway 36 at rd. S., 36 ft. E. of fence corner, in concrete post; standard tablet stamped "1430 C W A 1934"	729.850
(For balance in Monroe City quadrangle, see line 3.)	
U.S.C. & G.S. standard disk stamped "H 135 1935"	616.495
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	706.77
T. 57 N., R. 5 W., in SW 1/4 sec. 28, on NW. wing wall of bridge over Bear Creek; chiseled square	581.54
T. 57 N., R. 5 W., in SW 1/4 sec. 28, in NW. abutment of bridge over Bear Creek; standard tablet (set by water-resources branch of U.S. Geol. Survey)	581.572
T. 57 N., R. 5 W., in SE 1/4 sec. 28, at junction of private rd. N., on W. end of culvert; painted square	612.83
Hannibal, 3 mi. W. of, in SW 1/4 sec. 27, T. 57 N., R. 5 W., 28 ft. N. and 25 ft. W. from junction of private drive N., 2 ft. S. and 17 ft. W. from concrete post, in fence corner, in concrete post; standard tablet stamped "1429 C W A 1935"	723.974
T. 57 N., R. 5 W., near S. sixteenth cor. sec. 27, N. of crossroad, on W. end of culvert; painted square	683.13
Top of hill, N. of highway, at telephone pole; surface of ground	720.7
Hannibal, 1.5 mi. W. of, in SW 1/4 sec. 26, T. 57 N., R. 5 W., on S. head wall of concrete culvert; chiseled square	647.09
T. 57 N., R. 5 W., in SE 1/4 sec. 26, at crossroad; surface of highway	701.0
Hannibal, 0.8 mi. W. of, in SW 1/4 sec. 25, T. 57 N., R. 5 W., 200 ft. E. of crossroad, 48 ft. N. of highway, opposite red brick wall of driveway to dwelling of A. A. Suit, in root of 9-in. hickory tree; copper nail and washer	705.60
T. 57 N., R. 5 W., in SW 1/4 sec. 25, at junction of rd. S.; surface of highway	655.5
Crossroad; surface of highway	692.2
Hannibal, at W. edge of, on U.S. Highway 61, about 140 ft. S. and 180 ft. E. from junction of U.S. Highway 36, 68 ft. SW. of SW. corner of service sta., 36 ft. E. of concrete driveway, in concrete post; standard tablet stamped "1428 C W A 1935"	541.355
Reference mark, 80 ft. N. of tablet, 1 ft. W. of NW. corner of service sta., in concrete driveway; standard tablet	541.334
T. 57 N., R. 4 W., on line between secs. 30 and 31, near gas pumping sta., at base of fence post, on iron pipe; (mark not described)	635.30
Junction of lane W.; surface of highway	569.4
T. 57 N., R. 5 W., in SE 1/4 sec. 36, 370 ft. S. of entrance to Hatch State Experiment Sta., on center of concrete culvert; chiseled square	617.61
Crossroad; surface of highway	571.1
Crossroad, E. head wall of culvert; (mark not described)	547.61
Junction of optional U.S. Highway 61; surface of highway	556.9
U.S.C. & G.S. standard disk stamped "F 135 1935"	535.996
Bridge over Bear Creek, on SE. wing wall; (mark not described)	544.12
T. 56 N., R. 5 W., in SW 1/4 sec. 1, 70 ft. S. of junction of private rd. W., on E. end of concrete culvert; (mark not described)	609.30
T. 56 N., R. 5 W., near line between secs. 11 and 12, on top of hill, E. of highway, opposite large, brick dwelling, in root of 24-in. elm tree; copper nail and washer	676.24
T. 56 N., R. 5 W., about 0.2 mi. W. of cor. secs. 11, 12, 13, and 14, 41 ft. N. and 48 ft. E. from crossroad, 21 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "1427 C W A 1935"	679.680
T. 56 N., R. 5 W., in SE 1/4 sec. 14, W. of highway, in root of oak tree; nail	678.30
T. 56 N., R. 5 W., in NE 1/4 sec. 23, 350 ft. N. of junction of private rd. E., in W. head wall of concrete culvert; iron pin	699.05
T. 56 N., R. 5 W., in SW 1/4 sec. 24, on N. end of concrete base of gasoline pumps; painted square	640.43

	<u>Feet</u>
T. 56 N., R. 5 W., near quarter cor. between secs. 25 and 36, 29 ft. S. and 111 ft. W. from junction of rd. W., 560 ft. NW. of bridge over Salt River, 55 ft. N. and 105 ft. E. from NE. corner of farmhouse of Lee Beckett, in concrete post; standard tablet stamped "1426 C W A 1934"	503.195
New London, 2 mi. N. of, in NE 1/4 NW 1/4 sec. 36, T. 56 N., R. 5 W., at bridge over Salt River, in top of W. end of pier at N. end of middle steel truss; standard tablet (set by water-resources branch of U.S. Geol. Survey)	506.456
New London, 1.1 mi. N. of, in SE 1/4 sec. 36, T. 56 N., R. 5 W., on ridge, 120 ft. S. of dwelling, on W. head wall of concrete culvert; (mark not described)	601.66
New London, 0.8 mi. N. of, 300 ft. S. of junction of rd. E., in W. head wall of concrete culvert; iron pin	586.83
New London, near line between secs. 1 and 6, T. 55 N., Rs. 4 and 5 W., 210 ft. S. of junction of rd. E., on W. head wall of concrete culvert; painted square	581.15
New London, in front yard of courthouse, on SW. corner of concrete well platform; chiseled square	651.97
New London, 0.5 mi. S. of, 32 ft. E. of junction of State Highway 19, 5 ft. S. and 66 ft. W. from NW. corner of farmhouse of Dick Hamilton, 3 ft. W. of fence, in concrete post; standard tablet stamped "1425 C W A 1934"	675.136
New London, 1.2 mi. SW. of, 70 ft. SW. of R.R. crossing, on N. head wall of concrete culvert; (mark not described)	687.00
New London, 1.5 mi. SW. of, at junction of rd. N., on E. head wall of concrete culvert; chiseled square	705.69
New London, 2 mi. SW. of, at junction of private rd. N.; surface of highway	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. 55 N., R. 5 W., in N 1/2 sec. 14, at crossroad, on N. head wall of concrete culvert; painted square	698.25
T. 55 N., R. 5 W., E. sixteenth cor. sec. 15, 38 ft. N. and 225 ft. W. from junction of rd. W., 3 ft. S. and 13 ft. W. from hedge fence corner, in concrete post; standard tablet stamped "1424 C W A 1934"	716.415
T. 55 N., R. 5 W., cor. secs. 15, 16, 21, and 22, at crossroad, on S. head wall of concrete culvert; chiseled square	727.43
T. 55 N., R. 5 W., in W 1/2 sec. 21, 30 ft. N. of highway, 30 ft. W. of junction of rd. N., in fence corner, in root of 12-in. maple tree; copper nail and washer	733.06
T. 55 N., R. 5 W., W. sixteenth cor. between secs. 20 and 29, 32 ft. N. and 36 ft. E. from junction of rd. N., 2 ft. N. and 14 ft. E. from fence corner, in concrete post; standard tablet stamped "1423 C W A 1934"	723.615

(Continued in Monroe City quadrangle; see line 4.)

4. 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)

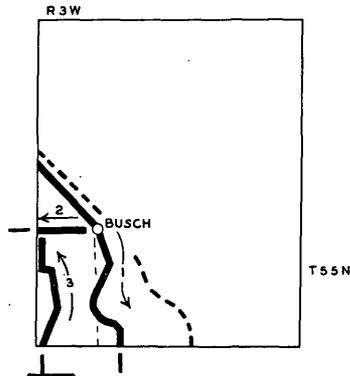
T. 56 N., R. 5 W., on line between secs. 11 and 14, 95 ft. W. of T-rd. S., on center of S. wing wall of small bridge over creek; chiseled square	626.04
T. 56 N., R. 5 W., in NW 1/4 sec. 14, about half way up long slope, in yard, in fence line, in root of 36-in. oak tree; nail	678.45
T. 56 N., R. 5 W., on line between secs. 14 and 23, 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 8-in. oak tree; crossed nails	672.63
T. 56 N., R. 5 W., in NE 1/4 SW 1/4 sec. 22, 130 ft. W. of creek, 210 ft. S. of abandoned farmhouse of Horace Jackson, 10 ft. N. of log barn, in root of 22-in. white-oak tree; copper nail and washer	579.24
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 E. sixteenth cor. between secs. 21 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	509.936
T. 56 N., R. 5 W., in NE 1/4 sec. 28, at dim lane E., N. of creek, in root on SW. side of twin maple tree; (mark not described)	502.03
T. 56 N., R. 5 W., near W. sixteenth cor. sec. 28, in saddle, 50 ft. W. of lane S. to farmhouse, on S. head wall of concrete culvert; chiseled square	581.73
T. 56 N., R. 5 W., near quarter cor. between secs. 28 and 29, 60 ft. E. of T-rd. E., in root on NE. side of 12-in. oak tree; nail	623.47
T. 56 N., R. 5 W., cor. secs. 28, 29, 32, and 33, 90 ft. S. and 40 ft. W. from, 40 ft. S. of junction of lane E., in root of 16-in. walnut tree; copper nail and washer	524.58
Ely's ford across Salt River, S. of, in root on NW. side of 8-in. willow tree; copper nail	498.01
T. 56 N., R. 5 W., near center sec. 32, at T-rd. W., in root on E. side of willow tree; crossed nails	511.05
T. 56 N., R. 5 W., near S. quarter cor. sec. 32, 320 ft. E. of T-rd. N., on NW. concrete wing wall of small bridge over creek; chiseled square	523.84
T. 55 N., R. 5 W., in N 1/2 of NE 1/4 sec. 5, 80 ft. N. of small bridge, in root of 18-in. elm tree; crossed nails	573.40
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	583.10

T. 55 N., R. 5 W., in S 1/2 NE 1/4 sec. 5, 25 (? 15) ft. E. of E. face of Bethany School, in SE. corner of concrete well platform; standard tablet	Foot 683.047 686.2
Junction of private rd. NW., at corner fence post; surface of ground	
T. 55 N., R. 5 W., center sec. 5, at T-rd. W., in root on N. side of oak tree; (mark not described)	666.04
T. 55 N., R. 5 W., quarter cor. between secs. 5 and 6, 15 ft. W. of T-rd. N., 15 ft. N. of E.-W. rd., in root on S. side of 20-in. hackberry tree; copper nail and washer	685.54 664.89
T-rd. N., in NW. corner of, in root of 12-in. maple tree; crossed nails	
5. FROM NEW LONDON EAST ALONG COUNTY ROUTE V TO SEC. 2, T. 55 N., R. 4 W., THENCE SOUTHEAST ALONG ROADS INTO BARRY QUADRANGLE AT SEC. 4, T. 55 N., R. 3 W. (by E. A. Barnes in 1935)	
Junction of U.S. Highway 61; surface of highway	653.2
St. Louis & Hannibal R.R. at highway; top of W. rail	616.3
New London, 1 mi. E. of, in depression, in root on S. side of 16-in. walnut tree; copper nail and washer	576.68 493.40
Junction of rd. W., on W. head wall of concrete culvert; painted square	
New London, 1.8 mi. E. of, at bridge over Salt River, at first set of piers W. of E. approach, 1 ft. upstream from guardrail, on outside rivet head of base plate; chiseled cross	502.73
New London, 2.4 mi. E. of, at junction of rd. NW., in base of telephone pole; nail	533.48
New London, 3 mi. E. of, in N 1/2 NW 1/4 sec. 4, T. 55 N., R. 4 W., in N. head wall of concrete culvert; standard tablet stamped "B A 3 1935"	504.334
New London, 3.7 mi. E. of, at junction of rd. N., on S. end of E. stone and concrete abutment of small bridge over creek; (mark not described)	503.24
New London, 4.3 mi. E. of, 40 ft. W. of junction of rd. N., on S. end of W. concrete abutment of small bridge; chiseled square	505.70 517.97
Junction of rd. S., at SW. corner of, in base of corner fence post; nail	
New London, 5.5 mi. E. of, about 0.8 mi. S. of N. cor. secs. 2 and 3, T. 55 N., R. 4 W., 110 ft. SW. of rd. forks, on E. end of N. concrete abutment of small bridge over creek; chiseled square	503.12
T. 55 N., R. 4 W., near center of N 1/2 sec. 2, at T-rd. E., in root of 16-in. locust tree; crossed nails	575.50
New London, 6.7 mi. E. of, about 300 ft. W. of line between secs. 1 and 2, T. 55 N., R. 4 W., 6 ft. E. of front face of Salt River School, 1 ft. N. of S. edge, in SW. corner of front concrete platform; standard tablet stamped "B A 4 1935"	616.715 495.6
T-rd. N., in NE. corner of, at corner fence post; surface of ground	
New London, 7.7 mi. E. of, about 1 mi. N. and 0.3 mi. E. from E. cor. secs. 1 and 12, T. 55 N., R. 4 W., on S. head wall of concrete culvert; chiseled square	502.91
T. 55 N., R. 3 and 4 W., about 0.1 mi. E. of line between secs. 1 and 6, at T-rd. S., at W. gatepost; surface of ground	502.9
New London, 8.5 mi. E. of, in N 1/2 sec. 6, T. 55 N., R. 3 W., at W. edge of triangle formed by T-rd. E., 25 ft. N. of rd. E., 12 ft. E. of N.-S. rd., in root of 10-in. sycamore tree; copper nail and washer	512.76
T. 55 N., R. 3 W., in S 1/2 NE 1/4 sec. 6, at rd. forks, in root of 12-in. hickory tree; crossed nails	527.82
T. 55 N., R. 3 W., in S 1/2 NE 1/4 sec. 5, in front yard, 20 ft. E. of driveway, in root of 10-in. oak tree; crossed nails	650.59
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) (Continued from Vandalia quadrangle; see line 1.)	
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	730.42
T. 55 N., R. 5 W., near quarter cor. between secs. 33 and 34, 58 ft. W. of T-rd. E., in root on N. side of 27-in. elm tree; copper nail and washer	709.18
T. 55 N., R. 5 W., cor. secs. 27, 28, 33, and 34, 380 ft. W. of cross-roads, 33 ft. S. of E.-W. rd., 18 ft. E. of entrance to cemetery at Salem Church, in concrete post; standard tablet stamped "1840 E R A 1935"	687.231
Reference mark, 95 ft. N. and 103 ft. W. from tablet, in root on SW. side of 36-in. burr-oak tree; copper nail and washer	682.18
T. 55 N., R. 5 W., cor. secs. 28, 29, 32, and 33, 17 ft. S. and 125 ft. W. from rd. at fence S., 108 ft. E. of E. face of farmhouse of R. W. Martin, in root on SE. side of 32-in. elm tree; copper nail and washer	674.49
T. 55 N., R. 5 W., E. sixteenth cor. between secs. 29 and 32, 24 ft. N. and 40 ft. E. from T-rd. S., in E. gatepost; nails	690.21
T. 55 N., R. 5 W., cor. secs. 29, 30, 31, and 32, 12 ft. S. and 138 ft. E. from rd. at fences N. and S., on S. head wall of concrete culvert; chiseled square	709.51
Farmhouse, 428 ft. W. of W. face of, on E. end of N. head wall of small bridge; chiseled square	712.08

For additional level lines along Mississippi River and Wabash Ry., refer to United States Coast and Geodetic Survey first-order line, Savanna to Grafton, Ill.; and second-order line, Hannibal to Salisbury.

BARKY QUADRANGLE*
 (Latitude 39°30'-39°45'; longitude 91°00'-91°15')

Pike and Ralls Counties



1. 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. 31, T. 55 N., R. 2 W. (by C. W. Williams in 1935)	Feet.
U.S.C.E. B.M. designated "548 R 91" Cap on pipe	471.119
Copper bolt	467.109
Clemens, 100 ft. SE. of sta., at bridge 110.95 over Fools Creek, at W. corner of NW. pier; W. bolt	463.79
U.S.C.E. B.M. designated "550 R 91" Cap on pipe	466.281
Copper bolt	462.261
Gilberts Island, 1,300 ft. NW. of upstream end of, 1,000 ft. NE. of 200 ft. cliff, 87 ft. SW. of R.R., 15 ft. NW. of semaphore; iron post (U.S.C.E. B.M. designated "90/C") Cap on pipe	480.461
Copper bolt	476.411
Reference mark, 10 ft. W. of post, in root on SW. side of 40-in. maple tree; copper nail and washer	479.60
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	467.36
Busch, about 530 ft. NE. of sta., in NW 1/4 sec. 1, T. 55 N., R. 3 W., 8 ft. W. of R.R., on NW. abutment of bridge 107.03 over Battle Creek; chiseled square	462.48
T. 55 N., R. 3 W., in SE 1/4 sec. 1, on SW. corner of signal tower N-106.1; bolt head	465.27
La Motte, at rd. crossing (?); top of W. rail	464.4
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 "556 R 89" (U.S.C.E. B.M.) Cap on pipe	454.445
Copper bolt (B.M. 556 R 89 is 140 ft. riverward from B.M. 89/3)	450.455
Reference mark, 165 ft. W. of post(?), in root on SW. side of 30-in. pecan tree; copper nail and washer	457.26
Du Pont Powder Co. pump house, 1,400 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.E. B.M. designated "89/3") Cap on pipe	457.675
Copper bolt	453.625
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 8-in. elm tree; iron post (U.S.C.E. B.M. designated "89/4") Cap on pipe	465.044
Copper bolt	460.975
Reference mark, 3 ft. N. of post, in root on E. side of 12-in. elm tree; copper nail and washer	463.06
U.S.C.E. B.M. designated "20"	473.687
Copper bolt	515.64
Ashburn, at post office, on SE. corner of step; chiseled square	514.85
Small bridge, on SE. wing wall; painted square	477.20
T. 55 N., R. 3 W., near N. sixteenth cor. sec. 13, on SE. wing wall of small bridge; chiseled square	476.80
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	585.35
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 18-in. white-oak tree; copper nail and washer	620.48
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	484.821
T. 55 N., R. 3 W., quarter cor. between secs. 23 and 24, 5 ft. N. and 15 ft. W. from stone at rd. corner N.-E., in concrete post; standard tablet stamped "3 W 1935"	494.31
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	

*The greater part of this quadrangle lies in Illinois.

	<u>Feet</u>
T. 55 N., R. 10 W., near center sec. 24, on NW. wing wall of small bridge; painted square	492.62
T. 55 N., Rs. 2 and 3 W., near quarter cor. between secs. 19 and 24, 7 ft. S. and 15 ft. E. from rd. at fence N., in root on SE. side of 50-in. elm tree; copper nail and washer	493.99
T. 55 N., R. 2 W., near center sec. 19, at rd. corner from W.-S., on concrete foundation of iron fence post; painted square	517.24
T. 55 N., R. 2 W., near quarter cor. between secs. 19 and 30, in front of church, 30 ft. S. and 120 ft. W. from rd. fork, in root on N. side of 48-in. black-oak tree; copper nail and washer	495.86
Transmission line, at first tree E. of, in root on N. side of 40-in. burr-oak tree; nail	462.41
T. 55 N., R. 2 W., near line between secs. 29 and 30, 0.6 mi. NE. of Ashburn bridge over Salt River, at foot of small hill, 7 ft. N. and 27 ft. E. from Ashburn rd. at private rd. through gate, 2 ft. N. of wire fence, in concrete post; standard tablet stamped "4 W 1935"	464.362
Reference mark, 85 ft. S. and 27 ft. W. from tablet, in root on W. side of 30-in. water-oak tree; copper nail and washer	460.51
T. 55 N., R. 2 W., in S 1/2 sec. 30, 50 ft. SW. of NW. end of Ashburn bridge over Salt River, in root on S. side of 60-in. maple tree; copper nail and washer	459.89

(Continued in Bowling Green quadrangle; see line 5.)

2. FROM BUSCH WEST TO SEC. 4, T. 55 N., R. 3 W. (by C. W. Williams in 1935)

Vernon School, on concrete base of E. gatepost; painted square	475.85
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 23 ft. W. from rd. corner, in root on E. side of 18-in. elm tree; copper nail and washer	506.09
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. walnut tree; copper nail and washer	568.34
T. 55 N., R. 3 W., in NW 1/4 sec. 3, on N. line of farm of E. Schindler, in root on W. side of 18-in. black-oak tree; nail	709.91
Gibbs triangulation sta.; U.S.C. & G.S. standard disk stamped "Gibbs Reference mark 1; U.S.C. & G.S. standard reference disk stamped "Gibbs No 1"	858.896
Reference mark 2; U.S.C. & G.S. standard reference disk stamped "Gibbs No 2"	847.598
T. 55 N., R. 3 W., in NE 1/4 sec. 4, 25 ft. S. of Busch-Hannibal rd., at entrance to farm of Tom Glascock, in root on NW. side of 18-in. elm tree; copper nail and washer	855.448
T. 55 N., R. 3 W., in NW 1/4 sec. 4, in small valley, 150 ft. W. of rd. corner W.-NE., 15 ft. S. of rd., in root on N. side of 12-in. oak tree; copper nail and washer	636.38
	609.11

3. FROM BOWLING GREEN QUADRANGLE AT SEC. 27, T. 55 N., R. 3 W., NORTH TO SEC. 4, T. 55 N., R. 3 W. (by C. W. Williams in 1935)
(Continued from Bowling Green quadrangle; see line 6.)

T. 55 N., R. 3 W., 200 ft. N. of cor. secs. 27, 28, 33, and 34, on SW. wing wall of bridge; painted square	551.17
Haw Creek School, 0.6 mi. S. of, 30 ft. S. and 15 ft. E. from T-rd. S., in root on SW. side of triple locust tree; copper nail and washer	585.79
Haw Creek School, top of first hill S. of, 18 ft. E. of rd., in root on W. side of 24-in. walnut tree; copper nail and washer	553.16
Haw Creek School, 96 ft. S. and 21 ft. E. from SE. corner of, 197 ft. S. and 48 ft. W. from rd. at fence E., in concrete post; standard tablet stamped "1 W 1935"	504.345
Haw Creek School, top of first hill N. of schoolhouse, 8 ft. E. of rd., in root on W. side of 36-in. maple tree; copper nail and washer	522.04
Haw Creek School, 1.1 mi. N. of, near small bridge, in root on E. side of 36-in. black-oak tree; nail	502.94
Haw Creek School, 1.5 mi. N. of, 17 ft. S. and 12 ft. W. from T-rd. S., on SW. corner of concrete culvert; chiseled square	513.03
Rd. intersection, 25 ft. W. of, on S. head wall of concrete culvert; painted square	554.31
Matson Ford, 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 "2 W 1935"	603.835
Matson Ford, on SE. side of Salt River, in root on W. side of 14-in. maple tree; copper nail and washer	475.25
Matson Ford, on NW. bank of Salt River, in root on N. side of 50-in. elm tree; copper nail and washer	476.46
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 T. E. Stanley, in root on S. side of 48-in. maple tree; nail	484.12

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