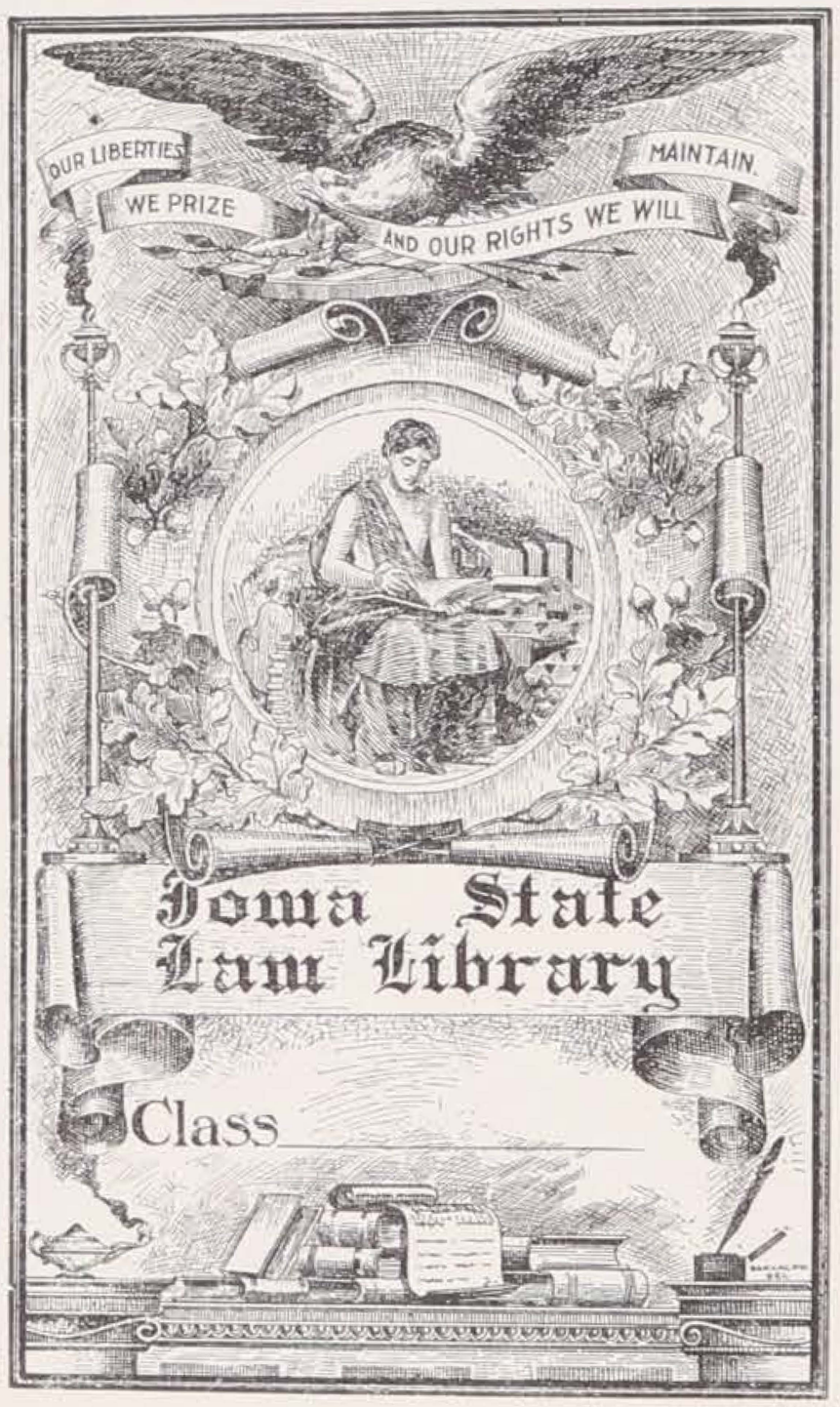
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1939

MT. PLEASANT LOOP
SUPPLEMENTARY ADJUSTMENT

SECOND ORDER LEVELS
IOWA GEODETIC SURVEY



I O W A
C R A F T
P R O J E C T
Des Moines, Iowa
Works Progress
Administration

Works Progress Administration
IOWA GEODETIC SURVEY
WPA Project No. 665-72-3-79
Des Moines, Iowa
1939

This report has been prepared by the Iowa Geodetic Survey, a state-wide project of the Works Progress Administration, under the sponsorship of the United States Coast and Geodetic Survey and the Engineering Experiment Station of Iowa State College.

All computations and results were prepared by WPA Project #4485, and were checked and approved by the United States Coast and Geodetic Survey.

IOWA GEODETIC SURVEY

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MT. PLEASANT LOOP

SUPPLEMENTARY ADJUSTMENT

SECOND ORDER LEVELS

IOWA GEODETIC SURVEY

W.P.A. in Iowa

IOWA STATE
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Leveling in Iowa

MT. PLEASANT, IOWA, SUPPLEMENTARY ADJUSTMENT

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GENERAL STATEMENT

This publication contains the descriptions and elevations of bench marks, in the State of Iowa, in Lee, Van Buren, Davis, Wapello, Jefferson, Henry, Des Moines, Louisa, Muscatine, Washington, Appanoose, and Keokuk counties; and some of the northeast counties of Missouri. These elevations have been determined by first- or second-order leveling by the U.S. Coast & Geodetic Survey. The elevations on Line B were determined by first- order leveling run by the Corps of Engineers, U. S. Army. All of the necessary re-leveling in the Mt. Pleasant loop was run by the Iowa Geodetic Survey under the direction of the U. S. Coast & Geodetic Survey.

The several lines are listed below, together with the years, in which the original field work was done.

First-Order Lines

Line B	Savanna to Grafton, Ill. (Part) ---------	1892
Line 144	Minneapolis, Minn. to Glasgow, Mo. (Part)	1930
Line 144 (Spur)	Ottumwa to Muscatine, Iowa -------------	1930
Line 795	Oakland, Ill., to Hamburg, Iowa (Part) --	1933

Second-Order Leveling

Line 5648	Moulton, Ia., to Kirksville, Mo. --------	1935
Line 5651	Hurdland, Mo., to Ft. Madison, Ia. ------	1935
Line 5654	Modill, to Clearwood Jct., Mo. ----------	1935
Line 5657	Bloomfield to Donnelson, Ia. ------------	1935
Line 5660	New Boston to Donnelson, Ia. ------------	1935
Line 5663	Donnelson to Washington, Ia. ------------	1935
Line 5666	Ottumwa to Mt. Pleasant, Ia. ------------	1935
Line 5669	Mt. Pleasant to Burlington, Ia. ---------	1935
Line 5672	Olds to Keithsburg, Ia. -----------------	1935

At the beginning of each line will be found a short description covering the route followed, chief of party, and the year in which the work was performed.

INSTRUMENTS AND FIELD METHODS

The first- and second-order leveling done in Iowa, by all organizations conforms with the specifications and instructions, given in U. S. Coast & Geodetic Survey Special Publication No.140 Manual of First-Order Leveling. All the instrumental equipment used in the Iowa leveling is described in U. S. Coast & Geodetic Survey Special Publication No. 129, Geodetic Level and Rod.

PIPESTONE
KILBRAE
WINNEBAGO
LA CROSSE
SIOUX FALLS
ALBERT LEA
MINNESOTA
IOWA
ALGONA
MASON CITY
MARQUETTE
DELWEIN
SIOUX CITY
FT. DODGE
WATERLOO
DUBUQUE
SERGEANT BLUFF
AMES
COLO
MARSHALLTOWN
CEDAR RAPIDS
PRAIRIE CITY
DES MOINES
DAVENPORT
MUSCATINE
ATLANTIC
HASKINS
COUNCIL BLUFFS
OTTUMWA
BURLINGTON
SHENANDOAH
BLOOMFIELD
HAMBURG
IOWA
MISSOURI
MARYSVILLE
MILAN
KIRKSVILLE
TRENTON
QUINCY

IOWA GEODETIC SURVEY

STATE OF IOWA
U.S.C. & G.S.
FIRST ORDER LEVEL NETS

SCALE IN MILES
0 10 20 30 40 50

LEGEND

FIRST ORDER LEVELS
SECOND ORDER LEVELS

IOWA GEODETIC SURVEY

MUSCATINE
144
HASKINS
WASHINGTON
5663
LOUISA
144
OLDS
5672
KEITHSBURG
OTTUMWA
5666
5663
WAPELLO
JEFFERSON
MT. PLEASANT
DES MOINES
HENRY
5660
BURLINGTON
BLOOMFIELD
VAN BUREN
LEE
MOULTON
144
DAVIS
5657
DONNELSON
IOWA
MISSOURI
FT. MADISON
5661
5680
NEW BOSTON
144
5648
5624
GLENWOOD JCT.
5631
5648
MEDILL
795
795
795
MILAN
KIRKSVILLE
HURDLAND
QUINCY

IOWA GEODETIC SURVEY
MT. PLEASANT LOOP
SUPPLEMENTARY ADJUSTMENT

SCALE IN MILES
0 5 10 15 20

THE 1929 GENERAL ADJUSTMENT

From time to time adjustments of the first-order level net of the United States have been made for the purpose of obtaining elevations which were, from a theoretical standpoint, nearer the exact truth than those derived from unadjusted observations, or the arbitrary fitting of new lines to old adjusted values of junction points. In 1898 the first adjustment of the net was made, and in 1903 there was another general adjustment. In 1907 and 1912 adjustments of the first-order level net were made. These last two adjustments cannot be considered as strictly general adjustments, for the reason that portions of the net, as adjusted in 1903, were held fixed in the adjustments of 1907 and 1912.

By 1929 so much additional leveling had been run throughout the United States that a new general adjustment was needed. It was believed that the net would be considerably strengthened by the introduction of the first-order leveling of Canada. Upon request, the Geodetic Survey of Canada kindly placed at the disposal of this Bureau the results of some 20,000 miles of first-order leveling in the Dominion of Canada. This leveling combined with about 40,000 miles of leveling in the United States was all adjusted in a single least-squares adjustment, in which mean sea level was held at zero, as observed at 26 tidal stations, (21 in the United States and 5 in Canada). The elevations resulting from the general adjustment are the best elevations obtainable from the data available at the time of the adjustment.

ORTHOMETRIC CORRECTION

Owing to the fact that the earth is an oblate spheroid, level surfaces at different elevations are not parallel, but tend to converge slightly toward the poles of the earth. This necessitates the application of an orthometric correction to the observed differences of elevations, in order that the resulting elevations of the bench marks may represent their true heights above mean sea level. The orthometric correction, and the methods used in computing it, are discussed in detail in Special Publication No. 140, Manual of First-order leveling.

The orthometric correction reaches a maximum on north-and-south lines run at high elevations, and it is zero on east-and-west lines. The orthometric correction has been applied to the leveling included in this publication. In order that persons using this publication may form an idea as to the order of size of the orthometric correction, the following example is cited:

The difference in elevation between two bench marks at about the latitude of Mt. Pleasant, Ia., in such locations that their geographic latitudes would differ by two minutes,(approximately 12,000 feet), and the average elevation of the line of levels connecting them would be 820 feet, would require an orthometric correction of 0.0025 foot. This correction varies directly with the average elevation, and with the difference in latitude between the marks and depends slightly upon the latitude. Tables for use in computing the orthometric correction are given in Special Publication No. 140.

COMPUTATIONS AND ADJUSTMENT

The entire first-order level net covering the State of Iowa was included in the 1929 General Adjustment, as computed by the U. S. Coast & Geodetic Survey (See Figure 1).

This report covers the Mt. Pleasant loop (See Figure 2),and has been computed and adjusted by the Iowa Geodetic Survey, in accordance with the specifications and instructions set up in the U. S. Coast & Geodetic Survey Special Publication No. 140. The elevations of the bench marks on the first-order lines were fixed by the 1929 General Adjustment; the elevations of the bench marks of the second-order lines within the Mt. Pleasant loop were computed by Least Square Adjustment. The computations and final elevations have been checked, and approved, by the Washington office of the U. S. Coast & Geodetic Survey.

RAIL ELEVATIONS

Interspersed throughout the descriptions and elevations of bench marks will be found the descriptions and elevations, in tenths of feet, of tops of rails opposite railroad stations, or at railroad and highway crossings. These elevations are approximate only, since the track does not accurately maintain a constant elevation for any great length of time.

COOPERATION IN THE PRESERVATION OF BENCH MARKS

A bench mark is useful only as long as it is recoverable. When changes occur,as they often do in the surrounding natural and cultural features with the relation to which the mark is described,it becomes increasingly difficult to find the mark by means of the published description. Engineers and others who have occasion to visit any bench marks established by this Bureau, or other Government organizations will be doing a public service if they will report the condition of the marks and make suggestions as to needed changes in the descriptions.

The following motion was adopted by the Committee on Control (H. W. Hemple, Chairman) of the Federal Board of Surveys and Maps on March 14, 1939:

"The Committee on Control has made a thorough study of the proposed use of supplemental wooden or steel posts in connection with federal control concrete survey monuments. As a result of this study the Committee recommends that, insofar as practicable such supplemental posts be used for control survey monuments where the marks are set flush with the surface, or project but a few inches above the ground. The supplemental posts are especially recommended for monuments established along public highways in rural districts, along the rights of way of railroads, in wooded areas and along the shore-lines of rivers, lakes, or oceans. Supplemental posts are not recommended for monuments established along business streets, or in residential districts of cities, on the grounds of schools, or churches, in cemeteries, in cultivated farm lands, or on bare mountain tops. For horizontal control monuments established in cultivated fields, and set below the surface of the ground, the use of supplemental post at the concrete reference mark sites is advocated.

"The supplemental post recommended for use should be decay-resistant, or special-treated wood, not less than 4" x 4" in cross section, set at least 3 feet in the ground, projecting at least 18" above the surface, painted white and with the legend "U S B M" or "U S △" stenciled thereon in black letters. It should be set at least three feet distant from the survey monument, in a location where it will not affect subsequent survey operations.

"The field parties establishing the supplemental posts should direct the attention of highway, county and local engineers to the monuments and enlist their cooperation in the preservation, and maintenance, of the markers.

"These supplemental posts, where established along highways subject to improvement, will aid in the preservation of control monuments in that the attention of the highway contractor will be directed to the presence of the concrete markers before construction operations disturb their location. Many control monuments will thus be protected and perpetuated, which otherwise would be thoughtlessly disturbed and rendered useless. The supplemental posts will also be an aid to the easy recovery of the station mark, resulting in a saving of time and money to many users."

(First-order leveling)

Elevations based on the 1929 General Adjustment of the First-order Level Net. These elevations supersede those previously published.

This line follows the Mississippi River from Muscatine, Iowa to New Boston, Iowa, then follows the Chicago, Burlington & Quincy Railroad from New Boston, Iowa to Quincy, Illinois. The field work was done by the Corps of Engineers, U. S. Army.

For descriptions of additional bench marks in this vicinity, see page 32.

P.B.M. 30 Destroyed.

P.B.M. 29 Destroyed.

	Elevation feet
P.B.M. 28 At Muscatine, Muscatine County, in the north face of the waterworks chimney and about 4 feet above the ground. The center of a hole in a copper bolt set horizontally and surrounded by the letters "USPBM".	551.469

Note: In 1930 it was reported that the water works have been moved and that the top of the chimney has been removed and the remaining portion roofed over. This part of the chimney was preserved to save the mark, which is now flush with the floor.

P.B.M. 27 Destroyed.

P.B.M. 26 In Louisa County, about 7 miles below Muscatine, Muscatine County, on the right bank of the river, at Mr. E. Beatty's dwelling and in the east side of the northeast corner of the brick foundation. The center of a hole in a copper bolt set horizontally and surrounded by the letters "USPBM" cut in the brick.	548.053
P.B.M. 25 In Louisa County, about $7\frac{1}{2}$ miles south of Muscatine, Muscatine County, 24 yards south of the gate leading to Mr. Walton's house, 16 yards from the edge of the river bank, 9 yards north of a wagon road, near 3 small, blazed, black locust trees and at the height of the high water of 1851. The top of a stone set about one foot below the surface of the ground and marked by a block set over the stone and three marking stakes set 3 feet off.	543.939

	Elevation feet
P.B.M. 24 Mackenzie B.M. 45 At Port Louisa, Louisa County, at the old sawmill and in the top of the southeast corner of the stone foundation of the tall chimney.	544.946
P.B.M. 23 At New Boston, Mercer County, at the Union Hotel, in the north wall, 1.3 feet from the northeast corner and 3.6 feet above the ground. The center of a hole in a copper bolt set horizontally and surrounded by the letters "USPBM" cut in the wall.	570.225
P.B.M. 22 At New Boston, Mercer County, at the Keokuk Northern Line Packet Company's warehouse, near the northeast corner, in the top of the stone foundation of the north wall and 2.3 feet above the ground. The center of a hole in a copper bolt set horizontally and surrounded by the letters "USPBM" cut in the stone.	544.805
P.B.M. 21 About two miles east of New Boston, Mercer County, at the Chicago, Burlington and Quincy Railroad water tank, 165 yards east of the covered railroad bridge over Edwards River, in the foundation at the west side of the tank, under a strut and below the top of the foundation. The center of a hole in a copper bolt set horizontally and surrounded by the letters "USPBM" cut in the stone.	554.645
P.B.M. 20 At Keithsburg, Mercer County, at the north west corner of Main and Fifth Streets, at Mr. Rife's brick dwelling and in the southwest corner of the upper stone step on the south side of the house. The top of a copper bolt leaded vertically.	549.349
P.B.M. 19 At Keithsburg, Mercer County, at the north west corner of Main and Second Streets, at the brick furniture store owned by Mr. Parsons and in the stone step on the south side of the building. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the stone.	539.431
P.B.M. 18 At Oquawka, Henderson County, at the southeast corner of Third and Schuyler Streets, at a brick building, in the west side of the northwest corner and $2\frac{1}{2}$ feet above the ground. The center of a hole in a copper bolt set horizontally and surrounded by the letters "USPBM" cut in the brick.	547.676
P.B.M. 17 At Oquawka, Henderson County, at the northwest corner of Schuyler and Second Streets, at the brick store building used for the Journal office and owned by Mr. Robert Moir, in the stone pillar at the	

	Elevation feet
southwest corner and about two feet above the water table. The center of a hole in a copper bolt leaded horizontally and surrounded by the letters "USPBM" cut in the stone.	535.829
P.B.M. 16 In Henderson County, about 4½ miles above the east end of the Chicago, Burlington & Quincy Railroad bridge across the Mississippi River at Burlington, Des Moines County, Iowa, at trestle #59 and in the north end of the west abutment. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the abutment.	531.364
P.B.M. 15. In Henderson County, about 2 miles above the east end of the bridge across the Mississippi River at Burlington, Des Moines County, Iowa, at the Chicago, Burlington and Quincy Railroad bridge over Prairie Slough and in the north end of the east abutment. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the abutment.	529.766
P.B.M. 14 In Henderson County, at the Chicago, Burlington and Quincy Railroad bridge over the Mississippi River at Burlington, Des Moines County, Iowa, and in the north end of the east abutment. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the abutment.	542.095
P.B.M. 13 At Burlington, Des Moines County, at the Chicago, Burlington and Quincy Railroad bridge over the Mississippi River and in the north end of the west abutment. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the abutment.	541.971
P.B.M. 12 About 2¼ miles south of the west end of the railroad bridge at Burlington, Des Moines County, on the Chicago, Burlington and Quincy Railroad, about 765 yards south of the trestle near the sawmill, near the end of a cut, in the base of the limestone bluff, 13 feet from the center of the track and 1½ feet above the track. The center of a hole in a copper bolt leaded horizontally and surrounded by the letters "USPBM" cut in the stone.	531.370
P.B.M. 11 About 3½ miles south of Burlington, Des Moines County, south of the Chicago, Burlington and Quincy Railroad track, at the stone building known as Patterson's grocery, in the north side, near the northeast corner and 2½ feet above the ground. The center of a hole in a copper bolt set horizontally and surrounded by the letters "USPBM" cut in the stone.	539.713

	Elevation feet
P.B.M. 10 In Des Moines County, about 9 miles north of Fort Madison, Lee County, at the Chicago, Burlington & Quincy Railroad bridge over Skunk River and in the north end of the east abutment. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the abutment.	547.637
P.B.M. 9 About 4 miles above Fort Madison, Lee County, about 165 yards west of the Chicago, Burlington and Quincy Railroad track, at the brick house of Mr. James Gibbs, in the south side, in the top foundation stone and 3 feet from the southeast corner. The center of a hole in a copper bolt leaded horizontally and surrounded by the letters "USPBM" cut in the stone.	545.563
P.B.M. 8 At Fort Madison, Lee County, at thenortheast corner of Front and Broadway Streets, in the brick chimney of a wooden-ware factory owned by Mr. W. H. Cretzinger, in the middle of the west side of the chimney, and 3 feet above the base. The center of a hole in a copper bolt set horizontally and surrounded by the letters "USPBM" cut in the brick.	539.238
P.B.M. 7 At Fort Madison, Lee County, on Front Street near the station, at the Central Hotel and in the water table, near the center of the south side of the building. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the stone.	534.080
P.B.M. 6 About $\frac{1}{2}$ mile north of the station at Viele Lee County, at the Chicago, Burlington & Quincy Railroad bridge over Devils Creek and in the top of the stone abutment. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the abutment.	541.889
P.B.M. 5 About $\frac{1}{2}$ mile south of the station at Viele, Lee County, on the Chicago, Burlington & Quincy Railroad bridge over Little Devils Creek and in the northeast cornerstone of the middle pier. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the stone.	536.931
P.B.M. 4 About one mile south of the station at Viele, Lee County, on the Chicago, Burlington & Quincy Railroad bridge over Painter Creek, and in the top of the west end of the south abutment. The top of a copper bolt leaded vertically and surrounded by the letters "USPBM" cut in the stone.	542.863

P.B.M. 3 At Montrose, Lee County, at the south corner of Main and Cedar Streets, in the east side of a brick store building, in the upper foundation stone and three feet from the north corner. The center of a hole in a copper bolt leaded horizontally and surrounded by the letters "USPBM" cut in the stone. Elevation feet 530.005

P.B.M. 2 Destroyed.

P.B.M. 1 Destroyed.

P.B.M. 2 At Kookuk, Lee County, at a railroad bridge, in the south face of the Iowa shore pier, eight inches above the bench of the pier and in the tenth stone from the west end. A copper bolt leaded horizontally. 493.929

P.B.M. 3 At Kookuk, Lee County, on Water Street, at the southwest corner of the 3-story stone building owned by Mr. Patterson, at the second door from the corner of Johnson Street, fifty feet from the corner of the streets, 8 inches above the west doorsill and in the inner side of the outer wall. A copper bolt leaded horizontally. 509.146

P.B.M. 4 At Des Moines River Bridge, in Lee County Iowa, or Clark County, Missouri, and in the upper surface of the top stone of the buttress. A small conical hole in the rock at the intersection of a cross cut in the stone. 499.415

P.B.M. 5 At Alexandria, Clark County, in the upper end of town, 55 yards south of a slough emptying into the river, 60 feet from the riverbank, at the brick post-office building owned by Mr. Charles Bocker, in the north wall, 1½ feet from the northeast corner and 3 feet above the ground. A copper bolt leaded horizontally. 498.053

P.B.M. 6 At Gregorys Landing, Clark County, 165 yards north of a wagon road crossing, at the northeast corner of the Baptist Church, in the front side and in the upper corner of the stone masonry. A copper bolt leaded horizontally. 487.424

P.B.M. 7 About 5 miles above Canton, Lewis County, on the Chicago, Burlington and Quincy Railroad, 710 yards below bridge #14, 26 yards west of the track, 11 yards south of a small ravine, 5.6 feet west of a tree in the northeast corner of a field and in a stone marker

Elevation feet

at the root of a 12-inch oak tree. A copper bolt leaded vertically. 495.517

P.B.M. 8 At Canton, Lewis County, at the southwest corner of Lewis and Fifth Streets, in the north wall of Down's Hotel. in the fifth stone above the ground, in the fourth stone from the office entrance and in the second stone from the first window west of the entrance. A copper bolt leaded horizontally. 494.044

P.B.M. 9 At Canton, Lewis County, at the corner of Sixth and Washington Streets, at the German Methodist Episcopal Church, in the east side of the back foundation, in the third stone above the ground, in the second stone from the north corner and directly under a window. A copper bolt leaded horizontally. 493.388

P.B.M. 10 Destroyed.

P.B.M. 11 Destroyed.

P.B.M. 12 At West Quincy, Marion County, at the Chicago, Burlington and Quincy Railroad bridge, in the north face of the west abutment, in the third course of masonry from the bottom, in the ninth course from the top and 2 inches from the east corner. The center of a copper bolt leaded horizontally. 477.427

P.B.M. 13 Destroyed.

P.B.M. 14 Destroyed.

P.B.M. 15 Destroyed.

P.B.M. 16 Destroyed.

P.B.M. 17 Destroyed.

For descriptions of additional bench marks in this vicinity, see page 33.

LINE 144, MINNEAPOLIS, MINN. TO GLASGOW, MO.

(First-order Leveling)

This line follows the Wabash Railway from Ottumwa, Iowa to Moulton, Iowa, then continues along the Chicago, Burlington & Quincy Railroad from Moulton, Iowa to Milan, Missouri. The field work was done during October and November, 1930 by a party in charge of J. D. Thurmond, Chief of Party, and H. G. Conerly, Observer on sub-party. Elevations are based on the 1929 General Adjustment of the First-order Level Net.

For descriptions of additional bench marks in this vicinity, see pages 24 and 88.

		Elevation Feet
A-6	In Wapello County, at Ottumwa, in the railroad yards, about 1½ blocks east of Lawler Tower and the intersection of the Chicago, Milwaukee, St. Paul and Pacific Railroad and the Chicago, Burlington & Quincy Railroad, about 7 yards north of the Chicago, Burlington and Quincy Railroad, and under the telephone line, just west of a pole. A standard disk, stamped "A 6 1930" and set in the top of a concrete post.	649.126
	Top of rail opposite the Union Depot in Ottumwa.	643.7
A-7	In Wapello County, at Ottumwa, at the Wabash Railway bridge over Des Moines River, on the west end of the center pier and between the track and the bridge truss. A standard disk stamped "A 7 1930".	644.776
	Top of rail opposite Wabash Railroad MP 277.	642.3
B-7	In Wapello County, about 2.8 miles south of Ottumwa. on the Wabash Railway, about 1/8 mile north of milepost #3, at a grade crossing, 45 feet east of the railroad, 30 feet south of the road, 50 feet southeast of culvert #2219, and in a fence corner. A standard disk, stamped "B 7 1930" and set in the top of a concrete post.	638.096
	Top of rail opposite Wabash Railroad MP 276.	642.7
	Top of rail opposite Wabash Railroad MP 275.	662.5
	Top of rail opposite Wabash Railroad MP 274.	714.2
C-7	In Wapello County, about 5-3/4 miles south of Ottumwa, on the Wabash Railway, about 3/4 mile south of milepost #5, near a grade crossing on the top of a	

	Elevation feet
high hill, on a bluff about 50 feet west of the railroad at the place where the road turns to cross the tracks. A standard disk, stamped "C 7 1930" and set in the top of a concrete post.	778.890
Top of rail opposite Wabash Railroad MP 273.	778.5
Top of rail opposite Wabash Railroad MP 272.	702.7

D-7 In Wapello County, about 1-3/4 miles north of Carbon, Davis County, on the Wabash Railway, about $\frac{1}{4}$ mile south of milepost #271, about 800 feet south of the overhead crossing of highway #63, near the gate for a private road at the end of a cut and 20 feet east of the railroad. A standard disk, stamped "D 7 1930" and set in the top of a concrete post. 792.361

Top of rail opposite Wabash Railroad MP 271.	779.0
Top of rail opposite Wabash Railroad MP 270.	754.7
Top of rail opposite depot at Carbon.	700.4

E-7 In Davis County, at Carbon, on the Wabash Railway, at a grade crossing about $\frac{1}{4}$ mile south of the station about 20 yards south of milepost #10, 15 feet north of the road and 10 feet east of the railroad. A standard disk, stamped "E 7 1930" and set in the top of a concrete post. 691.370

Top of rail opposite Wabash Railroad MP 269.	693.1
Top of rail opposite Wabash Railroad MP 268.	692.8

F-7 In Davis County. about 3.5 miles north of Belknap, on the Wabash Railway, about 5/16 mile south of milepost #267, 60 feet south of the crossing of a private road, and 30 feet east of the railroad. A standard disk, stamped "F 7 1930" and set in the top of a concrete post. 717.725

Top of rail opposite Wabash Railroad MP 267.	703.3
Top of rail opposite Wabash Railroad MP 266.	767.1
Top of rail opposite Wabash Railroad MP 265.	840.2

G-7 In Davis County, about 1 mile north of Belknap, on the Wabash Railway, about $\frac{1}{2}$ mile south of milepost #265, at a grade crossing, near the "Station One Mile"

sign, 45 feet west of the railroad and 30 feet south of the road, in a fence corner. A standard disk, stamped "G 7 1930" and set in the top of a concrete post. — Elevation Feet 847.121

Top of rail opposite Wabash Railroad MP 264. — 825.7

H-7 In Davis County, at Belknap, on the Wabash Railway, about 400 feet north of the station and the crossing of the Wabash Railway and the Chicago, Rock Island and Pacific Railway, 75 feet north of a grade crossing, 40 feet west of a road and 25 feet east of the railroad. A standard disk, stamped "H 7 1930"and set in the top of a concrete post. — 865.717

Top of rail opposite depot at Belknap. — 869.0

J-7 In Davis County, at Belknap, on the Wabash Railway about 9/16 mile south of the station, at the first grade crossing, south of the town, about 800 feet south of milepost #263, 60 feet north of the road and 45 feet east of the railroad. A standard disk, stamped "J 7 1930" and set in the top of a concrete post. — 846.809

Top of rail opposite Wabash Railroad MP 263. — 854.8

Top of rail opposite Wabash Railroad MP 17. — 793.7

Top of rail opposite Wabash Railroad MP 18. — 857.5

K-7 In Davis County, about 1-3/4 miles north of Bloomfield, on the Wabash Railway, about 5/16 mile south of milepost #261, about 1/8 mile north of a railroad water tank, about 50 yards south of a grade crossing and 40 feet west of the railroad. A standard disk stamped "K 7 1930" and set in the top of a concrete post. — 790.917

Top of rail opposite Wabash Railroad MP 19. — 800.8

Top of rail opposite Wabash Railroad MP 20. — 808.6

Top of rail opposite depot at Bloomfield. — 859.5

Top of rail opposite Wabash Railroad MP 21. — 862.8

L-7 In Davis County, about 3/4 mile west of Bloomfield, on the Wabash Railway and the Chicago, Burlington and Quincy Railroad, about $\frac{1}{2}$ mile west of the junction, about 3/16 mile east of milepost #22, 60 feet south of

	Elevation feet
U.S. Highway #63 and State Highway #3, 30 feet from a grade crossing and 15 feet north of the railroad. A standard disk, stamped "L 7 1930" and set in the top of a concrete post.	885.966
Top of rail opposite Wabash Railroad MP 22.	888.4
Top of rail opposite Wabash Railroad MP 23.	893.7
Top of rail opposite Wabash Railroad MP 24.	843.7
Top of rail opposite Wabash Railroad MP 25.	905.7
M-7 In Davis County, about 3 miles east of West Grove, on the Wabash Railway, about ½ mile west of milepost #25, at the junction of U.S. Highway #63 and State Highway #3, 60 feet west of U.S. Highway #63 and 30 feet south of the railroad, at the fence line. A standard disk, stamped "M 7 1930" and set in the top of a concrete post.	903.702
Top of rail on centerline of U.S. Hwy. #63.	905.9
Top of rail opposite Wabash Railroad MP 26.	917.7
Top of rail opposite Wabash Railroad MP 27.	929.4
N-7 In Davis County, at West Grove, on the Wabash Railway, about ¼ mile east of the station, about 100 yards west of milepost #28, in the northeast corner of the school grounds and 20 feet south of the railroad. A standard disk, stamped "N 7 1930" and set in the top of a concrete post.	934.060
Top of rail opposite depot at West Grove,	944.4
Top of rail opposite Wabash Railroad MP 28.	931.8
Top of rail opposite Wabash Railroad MP 29.	949.4
Top of rail opposite Wabash Railroad MP 30.	947.1
P-7 In Davis County, about 4 miles east of Moulton, Appanoose County, on the Wabash Railway, about 800 feet east of milepost #31, about 500 feet west of a grade crossing and 45 feet north of the railroad. A standard disk, stamped "P 7 1930" and set in the top of a concrete post.	951.337
Top of rail opposite Wabash Railroad MP 31.	960.0
Top of rail opposite Wabash Railroad MP 32.	976.4

Q-7 In Davis County, about 2-3/4 miles east of Moulton, Appanoose County, on the Wabash Railway, at a grade crossing about ¼ mile east of milepost #33, 35 feet north of the railroad and 20 feet east of the road. A standard disk, stamped "Q 7 1930" and set in the top of a concrete post. — Elevation feet 976.911

Top of rail opposite Wabash Railroad MP 33. — 980.9

Top of rail opposite Wabash Railroad MP 34. — 975.9

R-7 In Appanoose County, at Moulton, on the Chicago, Burlington & Quincy Railroad, about 3/16 mile east of the station, about 100 yards west of milepost #35, at the grade crossing of a street, 20 feet east of the street and 15 feet south of the railroad. A standard disk, stamped "R-7 1930" and set in the top of a concrete post. — 988.125

Top of rail opposite Wabash Railroad MP 35. — 984.5

Top of rail opposite depot at Moulton. — 995.0

Top of rail opposite Chicago, Burlington & Quincy Railroad MP 99.. — 991.8

Top of rail opposite Chicago, Burlington & Quincy Railroad MP 100. — 948.8

Top of rail opposite Chicago, Burlington & Quincy Railroad MP 101. — 885.5

S-7 In Appanoose County, about 2 miles east of Sedan, on the Chicago, Burlington and Quincy Railroad, about 1/8 mile west of milepost #102, at a grade crossing, 45 feet south of the railroad and 30 feet west of the road. A standard disk, stamped "S 7 1930" and set in the top of a concrete post. — 850.123

Top of rail opposite Chicago, Burlington & Quincy Railroad MP 102. — 854.6

Top of rail opposite Chicago, Burlington & Quincy Railroad MP 103. — 831.0

T-7 In Appanoose County, at Sedan, on the Chicago, Burlington & Quincy Railroad, at the railroad water tank and on the concrete foundation nearest the east-and-west line of the railroad. A standard disk, stamped "T 7 1930". — 832.849

			Elevation feet
Top of rail opposite Railroad MP 104.	Chicago,	Burlington & Quincy	830.7
Top of rail opposite Railroad MP 105.	Chicago,	Burlington & Quincy	838.8
Top of rail opposite Railroad MP 106.	Chicago,	Burlington & Quincy	863.8

U-7 In Appanoose County, 2⅔ miles east of Exline, on the Chicago, Burlington & Quincy Railroad, about 7/16 mile east of milepost #107, about 1/16 mile east of an old deserted coal mine, and on the north end of a round culvert. A standard disk stamped "U 7 1930" 892.524

Top of rail opposite Railroad MP 107.	Chicago,	Burlington & Quincy	914.1
Top of rail opposite Railroad MP 108.	Chicago,	Burlington & Quincy	981.6

V-7 In Appanoose County, at Exline, on the Chicago Burlington & Quincy Railroad, about ¾ mile west of the station, at a grade crossing, 40 feet south of the railroad and 40 feet west of the road, at the fence line. A standard disk, stamped "V 7 1930" and set in the top of a concrete post. 1017.314

Top of rail opposite Railroad MP 109.	Chicago,	Burlington & Quincy	1007.4
Top of rail opposite Railroad MP 110.	Chicago,	Burlington & Quincy	968.8
Top of rail opposite depot at Exline.			1015.8
Top of rail opposite Railroad MP 111.	Chicago,	Burlington & Quincy	897.3

W-7 In Appanoose County, about 2½ miles west of Exline on the Chicago, Burlington & Quincy Railroad, about 3/8 mile west of milepost #111, near an old deserted coal mine, at a grade crossing, 40 feet south of the railroad and 35 feet west of the road. A standard disk, stamped "W 7 1930" and set in the top of a concrete post. 920.641

Top of rail opposite Railroad MP 112.	Chicago,	Burlington & Quincy	966.5

X-7	In Appanoose County, at Cincinnati, on the Chicago, Burlington & Quincy Railroad, about ¼ mile east of the station, 50 feet south of the railroad and 30 feet west of a crossroad, near the fence line. A standard disk, stamped "X 7 1930" and set in the top of a concrete post.	Elevation feet 1031.865
	Top of rail opposite Chicago, Burlington & Quincy Railroad MP 113.	1031.4
	Top of rail opposite depot at Cincinnati.	1035.1
	Top of rail opposite Chicago, Burlington & Quincy Railroad MP 115.	954.2
Y-7	In Appanoose County, about 2.3 miles south of Cincinnati, Appanoose County, on the Chicago, Burlington and Quincy Railroad, on the southward slope of a hill, about 15 yards south of a crossroad and about 8 yards west of the railroad, A standard disk, stamped " Y 7 1930" and set in the top of a concrete post.	928.315
	Top of rail opposite Chicago, Burlington & Quincy Railroad MP 116.	910.1
	Top of rail opposite Chicago, Burlington & Quincy Railroad MP 117.	894.1
A-10	In Putnam County, Missouri, at Mendota, on the Chicago, Burlington & Quincy Railroad, in the foundation of the railroad water tank and on the second footing from the railroad. A standard disk, stamped "A 10 1930".	884.457
	Top of rail opposite Chicago, Burlington & Quincy Railroad MP 118.	883.9
	Top of rail opposite Chicago, Burlington & Quincy Railroad MP 119.	887.6
B-10	In Putnam County, about 2¼ miles south of the Chicago, Burlington & Quincy Railroad station at Mendota, about 100 yards northeast of bridge #120.13, about 45 feet southeast of the railroad and about 3 yards south of a crossroad. A standard disk, stamped "B 10 1930" and set in the top of a concrete post.	894.687
	Top of rail opposite Chicago, Burlington & Quincy Railroad MP 120.	899.3

C-10 In Putnam County, at Howland, on the Chicago, Burlington & Quincy Railroad, about 45 feet northwest of the station, 31 feet west of the railroad and 15 feet north of a crossroad, at the base of a hill. A standard disk, stamped "C 10 1930" and set in the top of a concrete post. — Elevation Feet 985.096

Top of rail opposite depot at Howland. — 984.0

Top of rail opposite Chicago, Burlington & Quincy Railroad MP 123. — 1033.1

Top of rail opposite Chicago, Burlington & Quincy Railroad MP 124. — 971.2

D-10 In Putnam County, about 3 miles northeast of Unionville, on the Chicago, Burlington & Quincy Railroad, about 50 feet north of the railroad and 25 feet east of a crossroad. A standard disk, stamped "D 10 1930" and set in the top of a concrete post. — 907.948

Top of rail oopposite Chicago, Burlington, & Quincy Railroad MP 125. — 909.3

Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 126. — 926.7

Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 127. — 982.5

E-10 In Putnam County, at Unionville, about $\frac{1}{4}$ mile east of the Chicago, Burlington & Quincy Railroad station, about 100 yards north of the railroad, and in the south steps of the Unionville Grammar School Building, A standard disk, stamped "E 10 1930". — 1048.830

Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 128. — 1050.6

Top of rail opposite depot at Unionville. — 1065.8

Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 129. — 1048.9

Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 130. — 983.8

F-10 In Putnam County, about 3 miles southwest of Unionville, on the Chicago, Burlington & Quincy Railroad, about 0.3 mile southwest of milepost #131 and 48 feet northwest of the track, at the base of the hill

	El.ft.
that slopes to the north. A standard disk, stamped "F 10 1930" and set in the top of a concrete post.	997.642
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 131.	986.7
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 132.	1055.9
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 133.	1065.9
Top of rail opposite depot at Lemons.	1076.4
Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 134.	1075.5
G-10 In Putnam County, about 1 mile south of Lemons on the Chicago, Burlington and Quincy Railroad, about 45 feet south of the first crossroad south of Lemons, 30 feet north of a signboard and east of the railroad, in a concrete-pipe culvert. A standard disk, stamped "G 10, 1930".	1048.836
Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 135.	1042.3
Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 136.	994.3
Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 137.	971.5
H-10 In Sullivan County, at Pollock, about 150 yards south of the Chicago, Burlington and Quincy Railroad station, about 200 feet north of bridge No. 138.18 and 52 feet east of the railroad. A standard disk, stamped "H 10 1930" and set in the top of a concrete post.	935.516
Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 138.	943.4
Top of rail opposite depot at Pollock.	940.8
Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 139.	925.2
Top of rail opposite Chicago, Burlington, & Quincy Railroad MP 140.	911.8

	El.Ft
J-10 In Sullivan County, about 2¼ miles south of Pollock, on the Chicago, Burlington & Quincy Railroad, at the first crossing of a public road to the south of Pollock, east of the railroad, 15 feet north of the road and in a concrete-pipe culvert. A standard disk, stamped "J 10 193[illegible]".	912.652
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 141.	904.6
K-10 In Sullivan County, about 3.6 miles south of Pollock, on the Chicago, Burlington & Quincy Railroad, 200 yards south of the crossing of a farm road and in the south end of bridge #141.62. A standard disk, stamped "K 10 1930".	896.721
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 142.	889.8
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 143.	881.3
L-10 In Sullivan County, at Boynton, about 500 feet north of the Chicago, Burlington and Quincy Railroad station, 50 feet south of a crossroad and 46 feet west of the railroad, at the fence line. A standard disk, stamped "L 10 193[illegible]" and set in the top of a concrete post.	875.969
Top of rail opposite depot at Boynton,	876.6
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 144.	875.8
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 145.	869.1
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 146.	861.5
M-10 In Sullivan County, about 2½ miles south of Boynton, on the Chicago, Burlington & Quincy Railroad, about 22½ rails north of milepost #147, 10 rails north of bridge #146, and 30 feet east of the railroad, at the fence line. A standard disk, stamped "M 10 1930" and set in the top of a concrete post.	850.008
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 147.	854.2
Top of rail opposite Chicago, Burlington & Quincy Railroad MP 148.	849.0

N-10 In Sullivan County, about 0.6 mile north of Milan, on the Chicago, Burlington and Quincy Railroad, at the crossing of Highway #6, 15 feet west of the railroad and in the south end of a highway culvert. A standard disk, stamped "N 10 1930". RESET. Above ties may not be correct. El.Ft. 834.933

Top of rail opposite depot at Milan. 833.4

Top of rail opposite Chicago, Burlington & Quincy Railroad MP 151. 821.5

P-10 In Sullivan County, about 2½ miles south of Milan, on the Chicago, Burlington & Quincy Railroad, 14 rails north of milepost #152, 40 feet east of the railroad and 15 feet north of a crossroad, near the fence line. A standard disk, stamped "P 10 1930" and set in the top of a concrete post. 814.237

For descriptions of additional bench marks in this vicinity, see page 48.

LINE 144, OTTUMWA TO MUSCATINE, IOWA. (SPUR LINE)

(First-order leveling)

This line follows the Chicago, Milwaukee, St. Paul and Pacific Railroad from Ottumwa to Muscatine, Iowa. The field work was done during October, 1930, by a party in charge of J. D. Thurmond, Chief of Party, and H. G. Conerly, Observer on sub-party. Elevations are based on the 1929 General Adjustment of the First-order Level Net.

For additional bench marks in this vicinity see pages 13 and 88.

	El. Ft.
B-6 In Wapello County, near Rutledge, about ¼ mile west of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, and about in the middle of a 20-foot terrace, in the slope of a hill. A standard disk, stamped "B 6 1930" and set in the top of a concrete post.	828.886
Top of rail opposite the depot at Rutledge.	833.2
C-6 In Wapello County, near Rutledge, about 1¼ miles east of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about 0.8 mile west of County Home and on the southwest corner of bridge No. 1-1150. A standard disk, stamped "C 6 1930".	808.775
D-6 In Wapello County, near Rutledge, about 3 miles east of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about 1 mile east of County Home, east of a crossing, and about 12 yards north of the railroad. A standard disk, stamped "D 6 1930" and set in the top of a concrete post.	802.000
E-6 In Wapello County, near Farson, about 3 miles west of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, at bridge No. 1-1138, on the west end of the north side of the bridge, and in the guard rail. A standard disk, stamped "E 6 1930".	751.127
Top of rail opposite Chicago, Milwaukee, St. Paul, and Pacific Railroad MP 98.	771.6
F-6 In Wapello County, near Farson, about 1.5 miles west of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, at bridge No. 1-1134, on the north side of the bridge, and about 2 yards from the east end. A standard disk, stamped "F 6 1930" and set in the concrete.	771.659

		El. Ft.
G-6	In Wapello County, near Farson, about 1.2 miles east of the Chicago, Milwaukee, St. Paul and Pacific station at Farson, about 12 yards east of a crossing and about 13 yards north of the railroad, at the fence line. A standard disk, stamped "G 6 1930" and set in the top of a concrete post.	783.706
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 94.	780.5
H-6	In Wapello County, near Farson, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about 2½ miles east of Farson at bridge No. 1-1126 over a road, on the south side of the bridge, and about 3 yards from the east end. A standard disk, stamped "H 6 1930".	790.553
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 93.	782.6
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 92.	804.0
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 91.	797.3
L-6	In Jefferson County, near Linby, about 1½ miles west of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, about 200 yards east of a crossing, about 20 yards east of a windmill and about 45 feet north of the railroad, at the fence line. A standard disk, stamped "L 6 1930" and set in the top of a concrete post.	808.673
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 90.	816.4
J-6	In Jefferson County, at Linby, about 200 yards east of the Chicago, Milwaukee, St. Paul and Pacific Rail road station, near the crossing of the Chicago, Milwaukee, St. Paul and Pacific Railroad and the Chicago Burlington & Quincy Railroad, about 11 yards west of a crossing and about 16 yards north of the Railroad. A standard disk, stamped "J 6 1930" and set in the top of a concrete post.	812.698
	Top of rail at crossing of the Chicago, Milwaukee, St. Paul and Pacific and the Chicago, Burlington & Quincy Railroad.	816.7
	Top of rail opposite the depot at Linby.	816.8

K-6 In Jefferson County, near Linby, about 1 mile east of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, at bridge No. I-1122 over a public road, and on the north end of the west abutment. A standard disk, stamped "K 6 1930". — El. Ft. 797.738

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 87. — 782.4

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 86. — 793.0

M-6 In Keokuk County, near Linby, Jefferson County, about 4 miles east of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, at the eastern of two crossings which are near each other, about 11 yards south of the railroad, about 4 yards west of the road and 2½ feet east of the crossing sign. The road crosses the tracks at an angle of about 45°. A standard disk, stamped "M 6 1930" and set in the top of a concrete post. — 768.932

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 85. — 754.2

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 84. — 752.5

N-6 In Keokuk County, near Richland, about 2½ miles west of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about 75 yards west of the crossing of the Minneapolis & St. Louis Railroad, at bridge No. I-1114, and on the north end of the east abutment. A standard disk, stamped "N 6 1930". — 714.940

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 83. — 721.6

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 82. — 683.7

P-6 In Keokuk County, near Richland, about ¼ mile east of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, and in the north end of the west abutment of a bridge. A standard disk, stamped "P 6 1930". — 664.739

Top of rail opposite the depot at Richland. — 666.6

Q-6	In Keokuk County, near Richland, about 2 miles east of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, about 75 yards northeast of a crossing, about 14 yards north of the railroad, and near a gate in the fence. A standard disk, stamped "Q 6 1930" and set in the top of a concrete post.	El. Ft. 657.951
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 78.	646.0
	Top of rail opposite the depot at Rubio.	637.7
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 77.	634.0
R-6	In Washington County, near Rubio, about 0.8 mile east, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, about 100 yards west of a crossing, and on the south end of the west abutment of a railroad bridge. A standard disk, stamped "R 6 1930".	631.682
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 76.	634.2
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 75.	637.1
S-6	In Washington County, near Rubio, about $2\frac{1}{2}$ miles east, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, at a bridge over a county road, on the south side of the bridge, and about 10 yards from the west end of the bridge. A standard disk stamped "S 6 1930".	655.323
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 73.	704.7
T-6	In Washington County, at Wellston, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about 50 yards east of an overhead bridge, about 20 yards northwest of the station, about 13 yards north of the railroad and in the bottom of a cut, near the east end. A standard disk, stamped "T 6 1930" and set in the top of a concrete post.	739.815
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 72.	736.5
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 71.	718.0

		El. Ft.
U-6	In Washington County, near Wellston, about 1½ miles east of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, on the south side of concrete bridge No. I-1082. A standard disk stamped "U 6 1930."	724.579
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 70.	739.7
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 69.	762.7
V-6	In Washington County, at Titus, at the Chicago, Milwaukee, St. Paul & Pacific Railroad station, north of the station, about 25 yards north of the main track and near the fence line. A standard disk, stamped " V 6 1930" and set in the top of a concrete post.	764.634
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 68.	765.2
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 67.	757.0
W-6	In Washington County, near Washington, about 3½ miles west of the Chicago, Milwaukee, St. Paul and Pacific Railroad station, near the first crossing west of Highway No. 2, about 10 yards north of the railroad, about 5 yards west of the road, and west of the fence constructed by the railroad. A standard disk stamped "W 6 1930" and set in the top of a concrete post.	749.890
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 66.	745.4
X-6	In Washington County, near Washington, about 2¼ miles west of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, at bridge No. I-1078 over Arterial Highway No. 2, and in the west end of the south side of the bridge. A standard disk, stamped "X 6 1930".	705.491
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 65.	709.1
	Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 64.	730.2

For descriptions of additional bench marks in this vicinity, see page 87.

Y-6 In Washington County, at Washington, at the east front door of the post office, north of the steps and on the banister. A standard disk, stamped "Y 6 1930". 761.537

Top of rail opposite the depot at Washington 759.7

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 62. 760.7

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 61. 759.9

Z-6 In Washington County, near Washington, about 3 miles east of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about ¼ mile west of milepost 60, at a grade crossing, 45 feet north of the railroad and 15 feet south of the road. A standard disk, stamped "Z 6 1930" and set in the top of a concrete post. 739.874

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 60. 734.1

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 59. 754.2

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 58. 729.5

A-8 In Washington County, near Washington, about 5 miles east of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about 800 feet east of milepost 58, on the north end of culvert No. I-1070. A standard disk, stamped "A 8 1930". 718.122

B-8 In Washington County, near Haskins, about 1½ miles west of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about 40 feet east of milepost 56 at a grade crossing, 25 feet south of the railroad, 30 feet west of the road, inside the fence line. A standard disk, stamped "B 8 1930" and set in the top of a concrete post. 753.312

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 56. 755.3

C-8 In Washington County, at Haskins, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, about 3/16 mile west of the station, about 1 pole east of milepost 55, at bridge #1064 and on the south end of the east abutment. A standard disk stamped "C 8 1930". 752.728

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	El. Ft.
Top of rail opposite the depot at Haskins.	757.8
Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 53.	742.0
Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 52.	707.4

D-8 In Washington County, near Haskins, about 3.5 miles east of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, at a grade crossing about ½ mile east of milepost 52, 30 feet west of the road and 20 feet south of the railroad. A standard disk, stamped "D 8 1930" and set in the top of a concrete post. 683.575

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 51. 669.0

E-8 In Louisa County, at Gladwin, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, about 500 feet west of the station, on bridge No. 1052, on the east end of the revetment wall on the north side of the railroad and near a post supporting the railing. A standard disk, stamped "E 8 1930" and set in concrete. 599.100

Top of rail opposite the depot at Gladwin. 599.9

F-8 In Louisa County, near Cone, Muscatine County, about 2-3/4 miles west of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, at a grade crossing near milepost 47, about 150 feet west of the crossing, 20 feet from the road, and 35 feet north of the railroad, at a fence corner. A standard disk, stamped "F 8 1930" and set in the top of a concrete post. 612.354

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 47. 614.5

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 46. 615.8

G-8 In Muscatine County, near Cone, about 3/4 mile west of the town, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, at bridge No. I-1048, on the north side of the bridge, and 20 feet from the east end of the concrete. A standard disk, stamped "G 8 1930". 614.385

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 45. 614.6

	El.Ft.
Top of rail opposite the depot at Conesville.	615.4
Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 44.	615.2

H-8 In Muscatine County, near Cone, about 1.3 miles east of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, at the bridge across Cone Lake and on the south end of the west abutment. A standard disk, stamped "H 8 1930". 599.169

J-8 In Muscatine County, near Cranston, about 1-3/4 mi. west of the town, on the Chicago, Milwaukee, St.Paul and Pacific Railroad, on the south side of the bridge which is 17 rails west of bridge No. 1-1040. A standard disk, stamped "J 8 1930". 631.721

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 41.	640.2

K-8 In Muscatine County, at Cranston, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about 50 yards east of the station, about 13 yards east of a cross-road about 19 yards north of the railroad, and about 3 yards west of a large tree. A standard disk, stamped "K 8 1930" and set in the top of a concrete post. 662.696

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 38.	711.4
Top of rail opposite the depot at Cranston.	664.2

L-8 In Muscatine County, near Ardon, about 0.6 mile west of the town, on the Chicago, Milwaukee, St. Paul, and Pacific Railroad, about $\frac{1}{4}$ mile west of an overhead bridge, east of the crossing of a farm road, about 14 yards north of the railroad, and at the fence, about halfway down a hill that slopes westward. A standard disk, stamped "L 8 1930" and set in the top of a concrete post. 748.598

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 36.	754.8
Top of rail opposite depot at Ardon.	749.1
Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 34.	695.2

M-8 In Muscatine County, near Muscatine, about $5\frac{1}{2}$ miles west of the town, on the Chicago, Milwaukee, St. Paul

& Pacific Railroad, about ½ mile west of milepost 32, on a viaduct over a dirt road, on the north end of the east abutment. A standard disk, stamped "M 8 1930". — El. Ft. 633.765

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 32. — 615.3

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 31. — 581.2

N-8 In Muscatine, County, near Muscatine, about 3 miles west of the town, on the Chicago, Milwaukee, St. Paul & Pacific Railroad, about ½ mile west of milepost 30, on the south side of bridge No. I-1004. A standard disk, stamped "N 8 1930". — 560.288

P-8 In Muscatine County, at Muscatine, about 1 mile west of Culver Junction, on the Chicago, Milwaukee, St. Paul and Pacific Railroad, at bridge #1000, across a dredged ditch and on the west end of the north side of the bridge. A standard disk stamped "P 8 1930". — 546.439

Top of rail opposite Chicago, Milwaukee, St. Paul and Pacific Railroad MP 30. — 546.3

Q-8 In Muscatine County, at Muscatine, in the northwest corner of Musser Park, 100 feet south of the Chicago, Milwaukee, St. Paul and Pacific Railroad, 54 feet east of Oregon Street, 40 feet southeast of the watchman's shack at Culver Junction. A standard disk, stamped "Q 8 1930" and set in the top of a concrete post. — 543.926

Top of rail opposite depot at Muscatine. — 552.4

551 (U.S.G.S.) In Muscatine County, at Muscatine, at the highway bridge across the Mississippi River, at the north end of the pier nearest the river and about 6 feet above the ground. A United States Geological Survey standard disk, stamped "551". — 550.330

For additional bench marks in this vicinity see page 7.

LINE 795, OAKLAND, ILL. TO HAMBURG, IOWA.

(First-Order Leveling)

This line of levels has been fitted to the results of the 1929 General Adjustment of the Level Net of the United States, but the closure distributed through the line is somewhat in excess of the specified limit for first-order leveling. While the elevations, in meters and feet above mean sea level, are quite close to their final values, they should be used with caution since additional leveling in this area may require a readjustment of this line.

This line follows the Chicago, Burlington & Quincy Railroad from Quincy, Illinois, to West Quincy, Mo.; the Quincy, Omaha and Kansas City Railroad, from West Quincy, through Hurdland, Kirksville and Novinger, to Milan, Missouri. The field work was done during the spring of 1933, by a party in charge of J. D. Thurmond, junior hydrographic and geodetic engineer.

For additional bench marks in the vicinity of Quincy, see "Decatur to Quincy, Illinois" and "Savanna to Grafton, Illinois" lines, page 12.

12-A (U.S.E.) In Marion County, Missouri, about $1\frac{1}{2}$ miles west along the Chicago, Burlington and Quincy Railroad from Quincy, Adams County, Illinois, on the bridge over the Mississippi River, 8 feet north of the track, in the stone bridge seat of the west abutment, and 6 feet lower than the rail. A copper bolt.	El. Ft.	485.114
A-15 In Marion County, Missouri, about two miles west along the Quincy, Omaha and Kansas City Railroad from Quincy, Adams County, Illinois, about 0.5 mile west of the west end of the Chicago, Burlington & Quincy Railroad bridge over Mississippi River, about $\frac{1}{4}$ mile west of milepost # 2, about 300 feet west of a railroad crossing, about 150 feet southeast of a grain elevator, 35 feet south of the track and 6 feet west of a pole. A standard disk, stamped "A 15 1933" and set in the top of a concrete post.		476.630
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 2.		480.4
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 3.		478.1
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 4.		478.2

		El. Ft.
B-15	In Marion County, Missouri, about 4.4 miles west along the Quincy, Omaha and Kansas City Railroad from Quincy, Adams County, Illinois, about 0.4 mile west of milepost #4, at the Quincy Airport field, about 250 feet east of the crossing to the field, 60 feet north of the track, and 6 feet north of a fence. A standard disk, stamped "B 15 1933" and set in the top of a concrete post.	471.902
	Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 5.	481.2
	Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 6.	484.9
C-15	At Taylor, Marion County, on the right-of-way of U. S. Highway #24, adjacent to the Quincy, Omaha & Kansas City Railroad, at railroad mileage 6½, about 300 feet east of the station, 90 feet east of the stockyards, 60 feet south of the track, 10 feet north of the pavement, and five feet northeast of the sign "TAYLOR" on the highway. A standard disk, stamped "C 15 1933" and set in the top of a concrete post.	488.910
	Top of rail on the centerline of U. S. Highway #61.	493.8
	Top of rail opposite the depot at Taylor.	490.9
	Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 7.	493.6
	Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 8.	504.0
D-15	In Marion County, about 1.5 miles southeast along the Quincy, Omaha & Kansas City Railroad from Maywood, Lewis County, about 1/8 mile northwest of milepost #9, 30 feet east of a crossroad, 15 feet east of a crossing sign, and 15 feet south of the track. A standard disk, stamped "D 15 1933" and set in the top of a concrete post.	499.700
	Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 9.	502.5
	Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 10.	513.6
E-15	At Maywood, Lewis County, about 100 feet east of the Quincy, Omaha and Kansas City Railroad station, 45 feet west of the water tank, 12 feet north of the	

track, and 5 feet east of the east end of the station platform. A standard disk, stamped "E 15 1933" and set in the top of a concrete post. El. Ft. 517.551

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 11. 519.7

Top of rail opposite the depot at Maywood. 517.4

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 12. 541.3

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 13. 609.2

F-15 About 1½ miles southeast along the Quincy, Omaha & Kansas City Railroad from Durham, Lewis County, about 3/8 mile northwest of milepost #13, 25 feet west of a crossroad, and 30 feet south of the track. A standard disk, stamped "F 15 1933" and set in the top of a concrete post. 633.473

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 14. 640.9

Top of rail opposite the depot at Durham. 647.1

G-15 About 0.5 mile northwest along the Quincy, Omaha & Kansas City Railroad from the station at Durham, Lewis County, about 1/3 mile northwest of milepost #15, 30 feet west of a gravel crossroad, and 30 feet south of the track. A standard disk, stamped "G 15 1933" and set in the top of a concrete post. 648.102

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 15. 651.4

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 16. 666.7

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 17. 669.4

H-15 About 0.9 mile southeast along the Quincy, Omaha & Kansas City Railroad from Ewing, Lewis County, about 0.5 mile southeast of milepost #18, 30 feet east of a farm road crossing, 50 feet south of the track, and 25 feet north of State Highway #6. A standard disk stamped "H 15 1933" and set in the top of a concrete post. 676.216

	El. Ft.
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 18.	689.7
687-A (U.S.G.S.) At Ewing, Lewis County, about 2½ blocks north of the Quincy, Omaha & Kansas City Railroad station, at the old Reformed Lutheran Church used as the city hall, in the east stone foundation, 7 feet south of the northeast corner of the building, and 2 inches above ground. A United States Geological Survey standard disk, stamped "687 A" and set vertically.	686.081
Top of rail opposite the depot at Ewing.	690.5
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 19.	647.4
J-15 In Lewis County, about 1.5 miles northwest of Ewing, along the Quincy, Omaha & Kansas City Railroad, about ¼ mile southeast of milepost #20, at the bridge carrying State Highway #6 over the tracks, 9 feet south of the track, in the face of the concrete footing, and 4.5 feet lower than the top. A standard disk, stamped "J 15 1933" and set vertically.	663.050
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 20.	667.9
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 21.	679.4
K-15 In Lewis County, at Tolona, about 300 feet northwest of the Quincy, Omaha & Kansas City Railroad station, 45 feet southeast of a grade crossing, 15 feet southeast of a switch, and 20 feet south of the centerline of the track. A standard disk, stamped "K 15 1933" and set in the top of a concrete post.	692.604
Top of rail opposite the depot at Tolona.	692.8
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 22.	676.6
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 23.	701.2
L-15 In Lewis County, about two miles northwest of Tolona, along the Quincy, Omaha and Kansas City Railroad, 45 feet north of the centerline of the track, and 60 feet south of State Highway #6. A standard disk, stamped "L 15 1933" and set in the top of a concrete post.	700.681

	El. Ft.
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 24.	707.5
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 25.	694.3

M-15 In Lewis County, about ¼ mile southeast of the station at Lewistown, along the Quincy, Omaha & Kansas City Railroad, about 100 feet south of the Lewistown Lumber Company warehouse, 40 feet east of a grade crossing, and 25 feet north of the centerline of the track. A standard disk, stamped "M 15 1933" and set in the top of a concrete post. 725.028

724-A (U.S.G.S.) At Lewistown, Lewis County, at the post office, in the west stone wall, 10 feet south of the northwest entrance, and 1½ feet higher than the walk level. A United States Geological Survey standard disk, stamped "724 A" and set vertically. 724.690

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 26.	727.1
Top of rail opposite the depot at Lewistown.	727.1
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 27.	711.5

N-15 In Lewis County, near Lewistown, about two miles northwest along the Quincy, Omaha & Kansas City Railroad, 3 poles northwest of milepost #28, 15 feet east of a grade crossing, 35 feet north of the centerline of the track, and 40 feet south of State Highway #6. A standard disk, stamped "N 15 1933" and set in the top of a concrete post. 718.194

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 28.	724.1
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 29.	736.6

P-15 In Lewis County, about two miles southeast of La Belle, along the Quincy, Omaha & Kansas City Railroad, at milepost #30, 30 feet southeast of a grade crossing, 40 feet south of the centerline of the track, and 3 feet south of a point 5 feet east of a fence corner. A standard disk, stamped "P 15 1933" and set in the top of a concrete post. 735.176

	El. Ft.
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 30.	736.6
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 31.	728.9

737-A (U.S.G.S.) In Lewis County, at La Belle, at the Home Savings Bank, in the west stone wall, 20 feet south of the front entrance, and about 18 inches higher than the sidewalk. A United States Geological Survey standard disk, stamped "737 A" and set vertically. 737.807

Q-15 In Lewis County, at La Belle, about 8 rails northwest of the Quincy, Omaha & Kansas City Railroad station, 46 feet east of a road, 60 feet south of the centerline of the track, and 4 feet north of a point 4 feet east of a fence corner. A standard disk, stamped "Q 15 1933" and set in the top of a concrete post. 738.289

Top of rail opposite the depot at La Belle.	738.4
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 32.	737.3
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 33.	713.0

R-15 In Lewis County, about two miles northwest of La Belle, along the Quincy, Omaha & Kansas City Railroad, at mileage 33.8, 50 feet west of a grade crossing, 45 feet south of the centerline of the track, and 2 feet north of a point ten feet west of a fence corner. A standard disk, stamped "R 15 1933" and set in the top of a concrete post. 715.668

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 34.	731.0
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 35.	737.8

S-15 In Knox County, about 1.7 miles southeast of Knox, along the Quincy, Omaha and Kansas City Railroad, at mileage 35.5, 30 feet east of a private grade crossing, 35 feet south of the centerline of the track, 15 feet east of a gatepost, and 15 feet north of a fence. A standard disk, stamped "S 15 1933" and set in the top of a concrete post. 751.872

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 36.	754.1

X-15 In Knox County, at Knox, about 13½ rails east of the Quincy, Omaha & Kansas City Railroad station, 50 feet west of a grade crossing, in the northeast corner of the city park, and 48 feet south of the centerline of the track. A standard disk, stamped "X 15 1933" and set in the top of a concrete post. El. Ft. 763.827

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 37. 758.1

Top of rail opposite the depot at Knox City. 765.4

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 38. 754.1

Y-15 In Knox County, about two miles northwest of Knox, along the Quincy, Omaha & Kansas City Railroad, about 300 feet east of milepost #39, about 150 feet east of a grade crossing, 50 feet north of the centerline of the track, and 30 feet south of State Highway #6. A standard disk, stamped "Y 15 1933" and set in the top of a concrete post. 767.872

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 39. 767.6

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 40. 772.7

T-15 In Knox County, about 4 miles northwest of Knox, along the Quincy, Omaha & Kansas City Railroad, about 600 feet southeast of milepost #41, about 100 feet northwest of a concrete culvert on State Highway #6, 15 feet southeast of a private grade crossing, 45 feet south of the centerline of the track, 8 feet east of a gate, and 3 feet north of a fence. A standard disk, stamped "T 15 1933" and set in the top of a concrete post. 767.167

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 41. 777.6

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 42. 763.7

U-15 In Knox County, about 4.4 miles east of Edina, along the Quincy, Omaha and Kansas City Railroad, at mileage 42.6, about 200 feet west of a dirt road crossing, 12 feet east of a private grade crossing, 35 feet north of the centerline of the track, 10 feet

	El. Ft.
south of a fence, and six feet east of a gatepost. A standard disk, stamped "U 15 1933" and set in the top of a concrete post.	774.828
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 43.	751.8
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 44.	792.7
V-15 In Knox County, about 2.0 miles east of Edina, along the Quincy, Omaha and Kansas City Railroad, at mileage 44.5, at the west slope of a steep grade, 12 feet west of a grade crossing, and 32 feet north of the centerline of the track. A standard disk, stamped "V 15 1933" and set in the top of a concrete post.	756.705
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 45.	726.2
Z-15 In Knox County, at Edina, 75 feet west of the Quincy, Omaha and Kansas City Railroad station, at the northwest corner of the platform, and 14 feet north of the track. A standard disk, stamped "Z 15 1933"and set in the top of a concrete post.	734.123
Top of rail opposite the depot at Edina.	733.7
814-A (U.S.G.S.) In Knox County, at Edina, at the public square, 40 feet west of the east side of the park, and 15 feet north of the east-and-west sidewalk. A United States Geological Survey standard disk, stamped "814 A" and set in the top of a concrete post, projecting about 8 inches above ground.	814.710
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 47.	739.2
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 48.	805.0
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 49.	830.6
A-16 In Knox County, about 3.1 miles west of Edina, along the Quincy, Omaha & Kansas City Railroad, about seven poles east of milepost #50, fifty feet east of a whistle board, 22 feet south of the track, 40 feet north of a dirt road, and at a right angle turn to the north. A standard disk, stamped "A 16 1933" and set in the top of a concrete post.	842.567

	El. Ft.
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 50.	846.5
B-16 In Knox County, about 2.4 miles northeast of Hurdland, along the Quincy, Omaha & Kansas City Railroad, about 6½ rails west of milepost #51, 20 feet west of a grade crossing, and 15 feet north of the track. A standard disk, stamped "B 16 1933" and set in the top of a concrete post.	858.525
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 51.	856.9
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 52.	858.3
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 53.	878.2
C-16 In Knox County, at Hurdland, 50 feet east of the northeast corner of the Quincy, Omaha and Kansas City Railroad station, and 12 feet south of the track. A standard disk, stamped "C 16 1933" and set in the top of a concrete post.	888.581
Top of rail opposite the depot at Hurdland.	887.9
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 54.	879.9
For additional bench marks in this vicinity, see page 54.	
D-16 In Knox County, about 1.7 miles west of Hurdland, along the Quincy, Omaha & Kansas City Railroad, on the east end of plate girder bridge 300 C, over the Atchison, Topeka and Santa Fe Railway, north of the track, and in the stone bridge seat. A standard disk, stamped "D 16 1933".	860.769
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 55.	866.0
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 56.	890.9
E-16 In Adair County, about 0.7 mile east of Brashear, along the Quincy, Omaha & Kansas City Railroad, about 13 rails east of milepost #57, 20 feet west of a road, and fifteen feet north of the track. A standard disk stamped "E 16 1933" and set in the top of a concrete post.	861.721

	El. Ft.
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 57.	859.2
Top of rail opposite the depot at Brashear.	825.3
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 58.	812.6

F-16 In Adair County, about 1.1 miles west of Brashear, along the Quincy, Omaha & Kansas City Railroad, about 21 rails east of bridge #58.87, 40 feet south of the track, and ten feet north of State Highway #6. A standard disk, stamped "F 16 1933" and set in the top of a concrete post. 820.057

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 59.	831.0
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 60.	863.8

G-16 In Adair County, about 3.1 miles northwest of Brashear, along the Quincy, Omaha & Kansas City Railroad, about 7 poles southeast of milepost #61, 10 feet west of a grade crossing, 30 feet south of the track, and thirty feet north of State Highway #6. A standard disk, stamped "G 16 1933" and set in the top of a concrete post. 893.003

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 61.	904.5
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 62.	918.0
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 63.	930.1

H-16 At Bullion, Adair County, about 3 rails east of the Quincy, Omaha and Kansas City Railroad station, 50 feet east of a road, 50 feet north of the track, and at a fence line. A standard disk, stamped "H 16 1933" and set in the top of a concrete post. 950.658

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 64.	953.1
Top of rail opposite the depot at Bullion.	952.8

J-16 In Adair County, about 1.5 miles west of Bullion, along the Quincy, Omaha and Kansas City Railroad, at

mileage 65.25, 20 feet west of a grade crossing, 25 feet north of the track, and under a power transmission line. A standard disk, stamped "J 16 1933" and set in the top of a concrete post.	El. Ft. 970.556
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 65.	966.1
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 66.	956.6
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 67.	956.4
K-16 In Adair County, about 1.3 miles southeast of Kirksville, along the Quincy, Omaha and Kansas City Railroad, about 25 rails southeast of milepost #68,4 feet west of a road crossing gate, and 48 feet south of the track. A standard disk, stamped "K 16 1933" and set in the top of a concrete post.	958.600
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 68.	965.2
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 69.	960.6
L-16 At Kirksville, Adair County, on the north side of the Quincy, Omaha and Kansas City Railroad station, in the brick wall under the middle window of the agent's office, and 2½ feet higher than the walk. A standard disk, stamped "L 16 1933" and set vertically.	971.904
Top of rail opposite the depot at Kirksville.	968.6
M-16 At Kirksville, Adair County, in the northeast corner of the courthouse square, 4½ feet south of a flag pole, and 1 foot inside the curb. A standard disk, stamped "M 16 1933" and set in the top of a concrete post.	981.196
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 70.	983.1
For additional bench marks in this vicinity, see page 53.	
N-16 At Kirksville, Adair County, 15 feet south of the corner of Martha and Centennial Streets, at the northeast corner of the Williard grammar school, and inside the sidewalk line. A standard disk, stamped "N 16 1933" and set in the top of a concrete post.	974.106

	El. Ft.
P-16 In Adair County, about 1.6 miles northwest of Kirksville, along the Quincy, Omaha and Kansas City Railroad, at mileage 70.7, about 10 rails southeast of the crossing of State Highway #6, and 40 feet south of the track. A standard disk, stamped "P 16 1933" and set in the top of a concrete post.	979.260
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 71.	973.2
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 72.	885.1
Q-16 In Adair County, about 3.9 miles northwest of Kirksville, along the Quincy, Omaha and Kansas City Railroad, at mileage 73.25, about 500 feet east of a house on a hill, and 48 feet north of the track. A standard disk, stamped "Q 16 1933" and set in the top of a concrete post.	824.966
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 73.	831.7
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 74.	796.4
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 75.	780.1
R-16 In Adair County, about 1.2 miles northeast of Novinger, along the Quincy, Omaha & Kansas City Railroad, about 42 rails northeast of bridge #76.00 over Chariton River, 8 feet east of a private grade crossing, 20 feet south of the track, and 30 feet north of a road. A standard disk, stamped "R 16 1933" and set in the top of a concrete post.	770.950
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 76.	772.8
S-16 At Novinger, Adair County, on the Quincy, Omaha & Kansas City Railroad, 60 feet south of the station, 35 feet south of the track, 30 feet west of the Chicago, Burlington and Quincy Railroad, and 30 feet north of State Highway #6. A standard disk, stamped " S 16 1933" and set in the top of a concrete post.	769.811
Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 77.	771.1
Top of rail opposite the depot at Novinger.	771.0

T-16 In Adair County, about 1 mile northwest of Novinger, along the Quincy, Omaha and Kansas City Railroad, about 15 rails southeast of an old mine dump, about 8 rails southeast of milepost #78, about 8 rails northwest of the sign "NOVINGER" on the south side of the track, 25 feet north of the track, and 31 feet south of a road. A standard disk, stamped "T 16 1933" and set in the top of a concrete post. El. Ft. 773.742

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 78. 776.7

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 79. 779.3

U-16 In Adair County, about 3.3 miles northwest of Novinger, along the Quincy, Omaha & Kansas City Railroad, about 14 poles northwest of milepost #80, 25 feet northwest of a grade crossing, 15 feet north of the track, and forty feet south of a road paralleling the track. A standard disk, stamped "U 16 1933" and set in the top of a concrete post. 790.130

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 80. 779.3

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 82. 797.6

V-16 In Adair County, about 0.7 mile southeast of Stahl, along the Quincy, Omaha & Kansas City Railroad, about 6 poles southeast of milepost #83, about 3 rails southeast of a grade crossing, 70 feet south of the track, and 20 feet east of an angle in the road leading south. A standard disk, stamped "V 16 1933" and set in the top of a concrete post. 796.685

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 83. 800.5

Top of rail opposite the depot at Stahl. 808.4

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 84. 807.6

807 (U.S.G.S.) In Adair County, about $\frac{1}{2}$ mile northwest of Stahl, along the Quincy, Omaha & Kansas City Railroad, at milepost #84, about 200 feet north of the track, about 100 feet east of a bridge on a road paralleling the track, on the southwest side of the

road, and in the fence line. A United States Geological Survey standard cap, stamped "807 MO" and riveted on the top of a $3\frac{1}{2}$ inch iron pipe. El. Ft. 804.086

W-16 In Adair County, about 1.2 miles northwest of Stahl, along the Quincy, Omaha & Kansas City Railroad, about 12 rails northeast of milepost #85, 10 feet east of a grade crossing, 40 feet north of the track, and ten feet south of a road paralleling the track. A standard disk, stamped "W 16 1933" and set in the top of a concrete post. 809.808

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 85. 812.7

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 86. 824.8

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 87. 862.1

Y-16 In Sullivan County, about 1.5 miles northeast of Green Castle, along the Quincy, Omaha and Kansas City Railroad, at mileage 87.6, at the east end of a cut and a curve, 40 feet north of the track, and 2 ft. southwest of a blazed 6 inch hickory tree. A standard disk, stamped "Y 16 1933" and set in the top of a concrete post. 905.992

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 88. 926.4

X-16 At Green Castle, Sullivan County, 40 feet south of the Quincy, Omaha and Kansas City Railroad station agent's office, about 100 feet west of a grade crossing, and 30 feet south of the track. A standard disk, stamped "X 16 1933" and set in the top of a concrete post 1022.373

Top of rail opposite the depot at Greencastle. 1019.6

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 89. 995.1

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 90. 994.1

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 91. 1023.7

Z-16 In Sullivan County, about 1.1 miles east of Green

City, along the Quincy, Omaha & Kansas City Railroad, about 8 rails east of the sign "GREEN CITY 1 MILE",40 feet east of a grade crossing, and 25 feet north of the track. A standard disk, stamped "Z 16 1933" and set in the top of a concrete post. — El. Ft. 1025.674

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 92. — 1017.3

A-17 At Green City, Sullivan County, in the southeast corner of the city park, and near a mounted machine gun. A standard disk, stamped "A 17 1933"and set in the top of a concrete post. — 1058.656

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 93. — 1046.1

Top of rail opposite the depot at Green City. — 1058.9

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 94. — 1037.5

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 95. — 970.8

B-17 In Sullivan County, about two miles southwest of Green City, along the Quincy, Omaha and Kansas City Railroad, about 12 rails northeast of bridge #95.34, 40 feet southwest of a grade crossing, 30 feet south of the track, and 4 feet north of a fence corner. A standard disk, stamped "B 17 1933" and set in the top of a concrete post. — 949.194

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 96. — 936.4

C-17 In Sullivan County, about 1.9 miles northeast of Sorrell, along the Quincy, Omaha and Kansas City Railroad, about 4 rails east of milepost #97, 40 feet west of a private road grade crossing, and 25 feet south of the track. A standard disk, stamped "C 17 1933" and set in the top of a concrete post. — 920.959

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 97. — 921.1

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 98. — 911.2

Top of rail opposite the depot at Sorrell. — 909.7

D-17 In Sullivan County, about 0.4 mile southwest of Sorrell, along the Quincy, Omaha and Kansas City Railroad, about 16 rails southwest of milepost #99, about 30 feet east of a grade crossing, about 40 feet north of the track, and near a fence corner. A standard disk, stamped "D 17 1933" and set in the top of a concrete post. El. Ft. 917.108

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 99. 911.8

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 100. 955.4

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 101. 976.0

E-17 In Sullivan County, about 2.8 miles northeast of Milan, along the Quincy, Omaha & Kansas City Railroad, at mileage 101.8, at a curve, at the point of cut and fill, and thirty feet north of the track. A standard disk, stamped "E 17 1933" and set in the top of a concrete post. 924.631

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 102. 909.3

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 103. 850.2

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 104. 832.7

Top of rail opposite the depot at Milan. 833.3

F-17 At Milan, Sullivan County, 80 feet south of the Quincy, Omaha and Kansas City Railroad station, in a park, 35 feet from a track, 6 feet south of a fire hydrant, and one foot south of a sidewalk. A standard disk, stamped "F 17 1933" and set in the top of a concrete post. 834.493

Top of rail opposite Quincy, Omaha, and Kansas City Railroad MP 105. 836.7

G-17 In Sullivan County, about one mile southwest of Milan, along the Quincy, Omaha & Kansas City Railroad, at mileage 105.7, about 200 feet east of State Highway #6 underpass, and 45 feet north of the track. A standard disk, stamped "G 17 1933" and set in the top of a concrete post. 871.671

LINE 5648, MOULTON, IOWA TO KIRKSVILLE, MO.

(Second-order leveling)

This line follows the Wabash Railroad from Moulton, Iowa to Kirksville, Mo. The field work was done during February and March, 1935, by a party in charge of E. E. Stohsner.

For additional bench marks in this vicinity, see page 17.

G-120	In Appanoose County, at Moulton, along the Wabash Railroad at the Chicago, Burlington & Quincy Railroad crossing, 150 feet south of the depot. Set in former interlocking signal base, 13 feet west and 6 feet north of center of crossing, 1 foot below the level of the track. Standard disk, set in concrete base and stamped "G 120 1935".	El. Ft. 991.215
H-120	In Appanoose County, near Moulton, along the Wabash Railroad, 2.0 miles southeast of depot, at public road crossing, 12 poles north of milepole #241. Set 72 feet northwest of centerline of crossing. 42 feet southwest of centerline of track. At track level, 28 feet north of centerline of road and 3 feet north of right-of-way fence corner post. Standard disk, set in concrete post and stamped "H 120 1935".	989.194
	Top of west rail opposite Wabash Railroad MP 242.	992.9
	Top of west rail opposite Wabash Railroad MP 241.	989.6
J-120	In Appanoose County, near Moulton, along the Wabash Railroad, at public road crossing about 3.1 miles southeast of the depot. Set 42 feet northeast of centerline of track, 7½ poles southeast of milepole #239, 12 feet east of centerline of road, 8 feet southeast of right-of-way fence corner post, and 1.5 feet below track level. Standard disk, set in concrete post and stamped "J 120 1935".	993.860
K-120	In Appanoose County, Iowa, near Coatesville, Schuyler County, Missouri, along the Wabash Railroad, 2.0 miles northwest of the depot, at east and west public road crossing, 15½ poles southeast of milepole #238. Set 42 feet southwest of centerline of crossing, 24 feet south of centerline of road, 6 feet southeast of right fence corner post and 2 feet below track level. Standard disk, set in concrete post and stamped "K 120 1935".	994.663

	El. Ft.
Top of west rail opposite Wabash Railroad MP 238.	985.7
Top of west rail opposite Wabash Railroad MP 237.	994.6

S-83 In Schuyler County, at Coatesville. Set in line with the north end of depot, 36 feet east of centerline of track, 10 feet south of point of switch, 4 feet east of telegraph pole and 1.5 feet below track level. Standard disk, set in concrete post and stamped "S 83 1935". 991.504

Top of west rail opposite Wabash Railroad MP 236.	990.5
Top of west rail opposite Wabash Railroad MP 235.	991.7

T-83 In Schuyler County, near Coatesville, about 2.5 miles southeast of the Wabash Railroad depot, along the railroad, at private east and west road crossing, four poles northwest of milepole #233. Set 60 feet northwest of centerline of crossing, 42 feet southwest of centerline of track, 16 feet northwest of centerline of gate and 4 feet below track level. Standard disk set in concrete post and stamped "T 83 1935". 982.633

Top of west rail opposite Wabash Railrcad MP 234.	999.4
Top of west rail opposite Wabash Railroad MP 232.	998.4

U-83 In Schuyler County, near Glenwood, about 0.4 miles northwest of the depot, along the Wabash Railroad, at private road crossing, 8 poles east of milepole #231. Set 11 feet east of centerline of crossing. 18 feet north of centerline of Wabash track, 27 feet south of centerline of Chicago, Burlington and Quincy Railroad track, 21 feet west of telegraph pole and 1.5 feet above track level. Standard disk, set in concrete post and stamped "U 83 1935". 993.492

Top of west rail opposite Wabash Railroad MP 231.	992.4

V-83 In Schuyler County, at Glenwood Junction. Set in the south corner of semaphor signal base in front of depot ticket office, at track level. Standard disk, set in concrete signal base and stamped "V 83 1935". 998.581

W-83 In Schuyler County, at Glenwood, along the Wabash Railroad, 4½ poles southeast of depot at overpass #2069, over State Highway #4. Set in west end of north abutment, 9 feet southwest of centerline of track and at track level. Standard disk, set in concrete abutment and stamped "W 83 1935". 987.649

X-83 In Schuyler County, near Glenwood, along the Wabash Railroad, about 2.2 miles southeast of depot, at public road crossing, 2½ poles northeast of milepole #227. Set 75 feet northeast of centerline of crossing, 41 feet northwest of centerline of track, and 21 feet east of centerline of road, 4 feet southeast of right-of-way fence corner post and 2.5 feet below track level. Standard disk, set in concrete post, and stamped "X 83 1935". El. Ft. 972.934

Top of west rail opposite Wabash Railroad MP 228. 973.6

Top of west rail opposite Wabash Railroad MP 226. 981.5

Y-83 In Schuyler County, near Glenwood, about 4.5 miles southeast of the depot, along the Wabash Railroad. At Julesburg Siding, 6 poles south of milepole #225. Set 48 feet north of station sign and 43 feet west of centerline of track. 12 feet east, thence 3 feet south of right-of-way fence corner post and 2.5 feet below track level. Standard disk, set in concrete post and stamped "Y 83 1935". 998.180

Top of west rail opposite Wabash Railroad MP 224. 1001.8

For additional bench marks in this vicinity see page 70.

Z-83 In Schuyler County, near Queen City, about 2.5 miles north of the depot, along the Wabash Railroad, 10 poles southeast of milepole #223. Set 54 feet northwest of centerline of crossing and 39 feet southwest of centerline of track, 27 feet north of centerline of road, 4 feet east of right-of-way fence corner post and 1.5 feet below track level. Standard disk, set in concrete post and stamped "Z 83 1935". 995.438

Top of west rail opposite Wabash Railroad MP 223. 993.2

Top of west rail opposite Wabash Railroad MP 222. 1000.3

A-84 In Schuyler County, at Queen City. Set in line with north end of the Wabash Railroad depot, 80 feet west of centerline of track, 18 feet east of north and south road, 69 feet south of centerline of road crossing, 4 feet east of telegraph pole and 2.5 feet below track level. Standard disk, set in concrete post and stamped "A 84 1935". 1002.508

Top of west rail opposite Wabash Railroad MP 221. 1003.9

Top of west rail opposite Wabash Railroad MP 220. 999.1

	El. Ft.
Top of west rail opposite Wabash Railroad MP 219.	995.8

USGS-1005 In Schuyler County, at Queen City, along south side of public square. Set 165 feet east of centerline of U. S. Hwy. #63, 132 feet west of centerline of Main Street, 30 feet north of centerline of Cedar Street and 4 inches above level of ground. Bronze disk on cast iron post. 1002.947

B-84 In Schuyler County, near Queen City, 2.4 miles south of the depot, along the Wabash Railroad, at 5 by 5 foot culvert #2044, 5 poles south of milepole #218. Set in southeast corner of east headwall, 20 feet east of centerline of track and 3 feet below track level. Standard disk, set in concrete headwall and stamped "B 84 1935". 988.797

USGS-979 In Schuyler County, near Green Top, about 1.3 miles north of the depot, along the Wabash Railroad, at public road crossing, 13 poles north of milepole #217. Set 50 feet south of centerline of crossing, 100 feet west of centerline of track along north edge of east-west road intersecting railroad, 3 feet above track level. Bronze disk set on cast iron post. 977.580

Top of west rail opposite Wabash Railroad MP 217.	956.9

C-84 In Schuyler County, at Green Top, along the Wabash Railroad, 210 feet north of depot and 5½ poles north of milepole #216. Set 27 feet north of centerline of public road crossing, 20 feet west of centerline of track, 4 feet northeast of telephone pole guy wire and 1 foot above track level. Standard disk, set in concrete post and stamped "C 84 1935". 992.446

D-84 In Adair County, near Green Top, Schuyler County, along the Wabash Railroad, 1.7 miles south of depot, at 3 by 3 foot R C B hiway culvert, 12 poles north of milepole #214. Set in south end of west headwall, 65 feet east of centerline of track, at wooden box railroad culvert #2034, 18 feet west of centerline of US highway #63, at six feet below track level. Standard disk, set in concrete headwall and stamped "D 84 1935." 961.271

Top of west rail opposite Wabash Railroad MP 215.	972.7
Top of west rail opposite Wabash Railroad MP 214.	973.2

E-84 In Adair County, at Sublette, along the Wabash Railroad, 4 poles south of milepole #213 and 100 feet

south of depot. Set 48 feet north of center line of public road crossing, 21 feet east of center line of track, 50 feet west of center line of U.S. Hwy. #63, 4 feet east of telegraph pole, and 3 feet below track level. Standard disk, set in concrete post and stamped "E 84 1935". El. Ft. 981.642

Top of west rail opposite Wabash Railroad MP 212. 970.9

F-84 In Adair County, near Sublette, along the Wabash Railroad, about 1.8 miles south of depot, at a public road crossing, 4½ poles east of Milepole #211. Set 48 feet west of center line of crossing, 38 feet north west of center line of track, 14 feet north of center line of road, 2½ feet east of right-of-way fence corner post, 5 feet northwest of crossing sign, and 1 foot below track level. A standard disk, set in a concrete post and stamped "F 84 1935". 964.670

G-84 In Adair County, near Kirksville, along the Wabash Railroad, about 3.5 miles north of depot, at a public road crossing, 230 feet south of Milepole #209. Set 26 feet south of center line of crossing, 43 feet west of center line of track, at track level, 2 feet east and 5 feet south of right-of-way fence corner post. A standard disk, set in a concrete post and stamped "G 84 1935". 951.061

Top of west rail opposite Wabash Railroad MP 210. 950.8

Top of west rail opposite Wabash Railroad MP 208. 980.0

H-84 In Adair County, near Kirksville, along the Wabash Railroad, about 1.5 miles north of depot, at Milepole #207; 22-1/3 poles north of public road crossing. Set in line of poles, 36 feet east of center line of track, 9 feet west of right-of-way fence, and 1.5 feet below track level. A standard disk, set in concrete post and stamped "H 84 1935". 984.752

J-84 In Adair County, near Kirksville, along the Wabash Railroad, about 0.8 mile north of the depot, 10 poles north of Milepole #206; at 85-foot concrete deck bridge and highway over-pass. Set in east end of south abutment, 7 feet east of center line of track, and ½ foot below track level. A standard disk, set in a concrete abutment and stamped "J 84 1935". 957.410

For descriptions of additional bench marks in this vicinity, see page 43.

LINE 5651, HURDLAND, MO. TO FT. MADISON, IA.

(Second-order Leveling)

This line follows the Atchison, Topeka & Santa Fe Railroad from Hurdland, Mo. to Ft. Madison, Iowa. The field work was done during March, 1935, by a party in charge of E. E. Stohsner.

For additional bench marks in this vicinity, see page 41.

RR-1	In Knox County, at Hurdland, along the Atchison, Topeka & Santa Fe Railroad, southwest of the depot, at bridge #300 A. Chiseled cross in the east corner of the southeast headwall, 1½ feet below the rails.	El. Ft. 833.410
K-84	In Knox County, at Hurdland, at block signal #3002 at Atchison, Topeka & Santa Fe depot. Set in top of northwest side of concrete battery box, 6 inches above the rails. Standard disk, stamped "K 84 1935" and set in concrete battery box.	833.020
L-84	In Knox County, near Hurdland, about 2.1 miles east of the depot, along the Atchison, Topeka & Santa Fe Railroad, at a public crossing, 66 feet northeast of milepost #298. Set in post, 42 feet northwest of the northwest track, 21 feet west of the centerline of the road, 8 feet southwest of corner fence post, 1 foot below rail level. Standard disk, stamped "L 84 1935". Set in concrete post.	804.779
	Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 299.	813.7
	Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 297.	790.2
M-84	In Knox County, at Kenwood, along the Atchison, Topeka & Santa Fe Railroad, at a 35 foot steel-concrete road bridge, about 500 feet northeast of the depot. Set in the southeast end of the northeast abutment, about 150 feet northwest of the tracks, 7 feet below the rails. Standard disk, stamped "M 84 1935" and set in concrete abutment.	771.678
N-84	In Knox County, near Kenwood, along the Atchison, Topeka & Santa Fe Railroad, about 0.5 mile east of the depot, at a 125 foot bridge, 13 poles northeast of milepost 296. Set in the southeast end of the north-	

east abutment, 7 feet southeast of the center line of the southeast track, 1½ feet below the rails. A standard disk, stamped "N 84 1935" and set in concrete abutment. El. Ft. 777.203

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 295. 781.1

P-84 In Knox County, near Kenwood, along the Atchison, Topeka and Santa Fe Railroad, about 2.7 miles east of the depot, at a private crossing, 7 poles west of bridge (road overpass) #293 A. Set in post 73 feet north of the center line of the north track, 22 feet west of the center line of the road, 10 feet southwest of a two-foot tree, 7 feet below the rails. A standard disk, set in contrete post and stemped "P 84 1935". 803.187

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 294. 803.6

RR-2 In Knox County, near Baring, along the Atchison, Topeka and Santa Fe Railroad, about 2.7 miles west of the depot at Baring, at a public road overpass, Bridge #293 A. Chiseled cross on the northwest corner of the southwest pedestal stone, 6 inches below the rails. 810.933

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 293. 798.5

Q-84 In Knox County, at Baring, at the Atchison, Topeka and Santa Fe depot. Set in the north corner of a switch guide base directly across the tracks from the ticket office, 30 feet southeast of the center line of the southeast track, 9 feet southeast of a block signal, 1 foot below the rails. A standard disk, set in concrete foundation and stamped "Q 84 1935". 811.189

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 292. 803.7

USGS-148 In Knox County, near Baring, about 0.8 mile southwest of the depot, along the Memphis road (State Highway #15) to the junction with State Highway #11. Set in post 30 feet south of the centerline of Highway #11; 25 feet west of the centerline of Highway #15 extended south from the junction. A Bronze disk set in concrete post. Not stamped. 827.384

QQ-84 In Knox County, at Baring, along the Atchison, Topeka & Santa Fe Railroad, 210 feet northeast of the

Edina road (State Highway #15) crossing. Set in post, 33 feet northwest of the centerline of the northwest track, 14 feet southeast of the centerline of a side track, 5 feet southeast of a switch stand, 1 inch above the ground. Standard disk, set in concrete post and stamped "QQ 84 1935". El. Ft. 812.548

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 290. 794.4

R-84 In Knox County, near Baring, along the Atchison, Topeka & Santa Fe Railroad, about two miles east from the depot at bridge #288 D, fourteen poles northeast of milepost #289. Set in northwest end of northeast abutment, 9 feet northwest of centerline of northwest track, 2½ feet below rail level. Standard disk stamped "R 84 1935". 760.382

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 289. 776.4

RR-3 In Knox County, near Baring, about 2.8 miles east of the depot, along the Atchison, Topeka and Santa Fe Railroad, at a private crossing, 6 poles southwest of bridge #287 C. Set in post 59 feet northwest of the centerline of the northwest track, 12 feet southwest of the center of a farm gate, 1½ feet south of southwest gate post, at rail level. Iron bolt set in concrete post. 769.519

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 288. 778.1

S-84 In Knox County, near Fabius, about 1.3 miles west of the depot, along the Atchison, Topeka and Santa Fe Railroad, at a public crossing, 7 poles southwest of milepost #287. Set in post 15 feet southeast of northwest right-of-way fence, 30 feet southwest of the centerline of the road, 2 feet southwest of the road fence, 4 feet below the rails. Standard disk, set in concrete post and stamped "S 84 1935". 741.308

RR-4 In Knox County, at Fabius, at the Atchison, Topeka & Santa Fe Railroad depot. Set in post 77 feet northeast of the northeast end of the depot, 210 feet southeast of the centerline of the southeast track, 1 foot northwest of the right-of-way fence, 2 feet below the rails. Iron bolt set in concrete post. 700.297

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 285. 695.2

T-84 In Knox County, near Fabius, about 2.0 miles east of the depot, along the Atchison, Topeka and Santa Fe Railroad, at bridge #283 E (Public road overpass), 3 poles northeast of milepost #284. Set in the northeast corner of the southeast pedestal stone, 1 foot above the rails. Standard disk, stamped "T 84 1935". El. Ft. 737.476

U-84 In Scotland County, at Rutledge, along the Atchison, Topeka & Santa Fe Railroad, west of the depot at the crossing of County Road "M". Set in the northeast corner of crossing warning signal foundation, 12 feet south of the centerline of the south track, 1 foot above the rails. Standard disk stamped "U 84 1935". 744.972

V-84 In Scotland County, at Rutledge, along the Atchison, Topeka & Santa Fe Railroad at block signal #2821, northeast of the depot. Set in the southeast side of the foundation, 7 feet northwest of the centerline of the northwest track, 6 inches above the rails. Standard disk stamped "V 84 1935". 754.926

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 282. 739.2

W-84 In Scotland County, near Rutledge, about 2.0 miles east of the depot, along the Atchison, Topeka & Santa Fe Railroad, at a public crossing, 9 poles northeast of milepost #281. Set in the north corner of the foundation of crossing warning signal, 11 feet southeast of the centerline of the southeast track, at rail level. Standard disk stamped "W 84 1935". 689.838

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 280. 664.5

X-84 In Scotland County, at Gorin, about 0.7 mile west of the depot, along the Atchison, Topeka and Santa Fe Railroad, at block signal #2781, 17 poles northeast of milepost #279. Set in the west corner of the foundation, 11 feet northwest of the centerline of the northwest track, 1 foot above the rails. Standard disk stamped "X 84 1935". 720.576

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 279. 706.2

Y-84 In Scotland County, at Gorin, along the Atchison, Topeka & Santa Fe Railroad, at the Main Street Crossing west of the depot. Set in post 75 feet south of the centerline of Main Street, 15 feet west of the centerline of a north-south road, $9\frac{1}{2}$ feet northwest of

the centerline of the northwest track, at rail level. Bronze disk, set in concrete post and stamped"Y 84 1935". El. Ft. 704.762

Z-84 In Scotland County, near Gorin, along the Atchison, Topeka & Santa Fe Railroad, at bridge #276 B, 1.5 miles east of Gorin. Set in the northwest end of the southwest backwall, 9 feet northwest of the centerline of the northwest track, 2 feet below the rails. Standard disk stamped "Z 84 1935". 692.154

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 277. 687.7

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 276. 707.8

RR-5 In Scotland County, near Gorin, along the Atchison, Topeka & Santa Fe Railroad, about 2.5 miles east of the depot. At a public crossing immediately southwest of bridge #275 A, 25½ poles northeast of milepost #276, thence northeast along the railroad, 64 feet from the centerline of the crossing, thence northwest 74 feet. Set in post 1 foot southeast of the right-of-way fence, 4 feet above the rails. Iron bolt set in concrete post. 735.858

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 275. 746.5

RR-6 In Scotland County, near Wyaconda, Clark County, about 1.7 miles west of the depot, along the Atchison, Topeka and Santa Fe Railroad, at a private crossing 3 poles northeast of milepost #274. Set in post 75 feet northwest of the centerline of the northwest track, 12 feet northeast of the centerline of the private road, 3 feet above the rails. Iron bolt set in concrete post. 750.231

A-85 In Clark County, near Wyaconda, along the Atchison, Topeka & Santa Fe Railroad, about 1.1 miles west of the depot, at bridge #273 B, at a public crossing. Set in the west end of the north headwall, 24 feet north of the centerline of the north main line track, 1½ feet below the rails. Standard disk stamped "A 85 1935". 749.132

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 273. 744.7

B-85 In Clark County, at Wyaconda, at the street crossing immediately east of the Atchison, Topeka and Santa Fe Railroad depot. Set in post 40 feet east of the centerline of the street, 19 feet north of the centerline of the north track, 12 feet east of the center of a block signal battery box, 6 feet north of a mail crane, at rail level. Standard disk, set in concrete post and stamped "B 85 1935". El. Ft. 756.393

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 272. 756.1

C-85 In Clark County, near Wyaconda, along the Atchison, Topeka & Santa Fe Railroad, about 1.4 miles east of the depot, at bridge #270 E (a public road overpass), 5 poles east of milepost #271. Set in the northwest pedestal stone, 10 feet north of the centerline of the north track, 6 inches above the rails. Standard disk stamped "C 85 1935". 716.167

D-85 In Clark County, near Wyaconda, along the Atchison, Topeka & Santa Fe Railroad, about 2.7 miles east of the depot, at bridge #289 B, at a private crossing. Set in the east end of the north headwall, 25 feet north of the centerline of the north track, 5 feet below the rails. Standard disk stamped "D 85 1935". 654.316

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 270. 679.6

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 269. 638.4

E-85 In Clark County, near Medill, along the Atchison, Topeka & Santa Fe Railroad, about 3.6 miles west of Highway #4 overpass at Medill, at block signal #2672, 2 poles west of milepost #267. Set in the foundation, 8 feet south of the centerline of the south track, at rail level. Standard disk stamped "E 85 1935". 668.798

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 268. 631.3

F-85 In Clark County, near Medill, about 1.8 miles west of the Highway #4 overpass, along the Atchison, Topeka & Santa Fe Railroad. At a public crossing, 8 poles west of milepost #265, thence west along the railroad 107 feet, thence north 46 feet from the centerline of the north track. Set in post at a jog in the right-of-way fence, 4 feet south of the fence, at the level of

	El. Ft.
the rails. Standard disk, set in concrete post and stamped "F 85 1935".	712.791
Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 266.	700.7
Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 265.	704.0

G-85 In Clark County, at Medill, along the Atchison, Topeka & Santa Fe Railroad, southwest of the depot to bridge #263 BB (State Highway #4) overpass. Set vertically in the northwest footing, 3 feet northeast of the southwest end, 20 feet northwest of the center-line of the northwest track, 2 feet above the rails. Standard disk stamped "G 85 1935". 708.844

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 264. 700.7

For additional bench marks and descriptions in this vicinity, see page 64.

USGS-703 A In Clark County, at Medill, along the Chicago, Burlington and Quincy Railroad, at a semaphore signal, 450 feet northwest of the Atchison, Topeka and Santa Fe crossing. Set in the signal foundation, 11 feet southwest of the centerline of the track, 6 inches below the rails. Bronze disk set in concrete foundation. Stamped "703 A". 704.349

H-85 In Clark County, near Medill, about 2.2 miles east of the Highway #4 overpass. Along the Atchison, Topeka and Santa Fe Railroad to bridge #261 B, 11 poles southwest of milepost #261. Set in the northeast end of the southeast headwall, 20 feet southeast of the centerline of the southeast track, 8 feet below the rails. Standard disk, stamped "H 85 1935". 631.383

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 262. 665.8

J-85 In Clark County, near Revere, along the Atchison, Topeka and Santa Fe Railroad, 3.8 miles west of the depot. At bridge #259 B in the northwest end of the southwest backwall, 9 feet northwest of the centerline of the northwest track, 1 foot below the rails. Standard disk stamped "J 85 1935". 582.791

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 259. 587.4

K-85 In Clark County, near Revere, about 1.7 miles west of the depot, along the Atchison, Topeka and Santa Fe Railroad, to block signal #2572, 27 poles southwest of milepost #257. Set in the northwest side of the foundation, 9 feet southeast of the centerline of the southeast track, at rail level. Standard disk stamped "K 85 1935". El. Ft. 641.551

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 258. 628.8

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 257. 663.0

L-85 In Clark County, at Revere, at a street crossing immediately west of the depot. Set in post 25 feet west of the centerline of the street, 13 feet north of the centerline of the north track, 8 feet west of the crossing warning signal, at rail level. Standard disk set in concrete post. Stamped "L 85 1935". 678.322

M-85 In Clark County, near Revere, about 2.0 miles east of the depot, along the Atchison, Topeka and Santa Fe Railroad to bridge #254 A, 1½ poles west of milepost #254. Set in the west end of the north headwall, 19 feet north of the centerline of the north track, 2 feet below the rails. Standard disk stamped "M 85 1935". 612.984

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 255. 642.7

N-85 In Clark County, at Dumas, along the Atchison, Topeka and Santa Fe Railroad, at the southwest end of the Des Moines River Bridge, 6 poles northeast of the depot. Set in the southwest end of the southwest rubble wall, 9 feet northwest of the centerline of the northwest track, 1 foot below the rails. Standard disk stamped "N 85 1935". 556.078

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 253. 582.3

RR-7 In Lee County, Iowa, near Dumas, Clark County, Missouri, about 1.7 miles east of the Des Moines River bridge at Dumas. Along the Atchison, Topeka & Santa Fe Railroad at a private crossing, 21 poles southwest of milepole #250, thence along the northwest track to a point 20 feet northeast of the centerline of the crossing, thence northwest 80 feet. Set in post 3 feet southeast of the right-of-way fence, 2 feet above the rails. Iron bolt set in concrete post. 613.312

	El. Ft.
Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 251.	594.1
Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 250.	630.0

M-120 In Lee County, near Argyle, along the Atchison, Topeka and Santa Fe Railroad, 1.4 miles west of the depot at Argyle, at block signal #2492, 25 poles northeast of milepost #250. Set in the foundation, $8\frac{1}{2}$ feet southeast of the centerline of the southeast track, at rail level. Standard disk stamped "M 120 1935". 655.845

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 249. 672.4

N-120 In Lee County, at Argyle, along the Atchison, Topeka and Santa Fe Railroad to block signal #2482, at a public crossing near the southwest city limit. Set in the north corner of the foundation, 9 feet southeast of the centerline of the southeast track, at rail level. Standard disk stamped "N 120 1935". 674.123

P-120 In Lee County, at Argyle, along the Atchison, Topeka and Santa Fe Railroad to a public crossing about 200 feet southwest of the depot, thence northeast along the railroad 55 feet from the centerline of the street, thence southeast 20 feet from the centerline of the southeast track. Set in post 2 feet northwest of a pole, 6 inches below the rails. Standard disk, set in concrete post and stamped "P 120 1935". 669.671

Q-120 In Lee County, near Argyle, about 1.9 miles east of the depot. Along the Atchison, Topeka and Santa Fe Railroad to block signal #2461, at a private crossing, 7 poles west of milepost #246. Set in the foundation, 8 feet north of the centerline of the north track, 6 inches below the rails. Standard disk stamped " Q 120 1935". 611.016

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 247. 641.0

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 246. 604.9

R-120 In Lee County, near New Boston, about 0.8 mile west of the depot, along the Atchison, Topeka & Santa Fe Railroad to bridge #244 BA (U.S.Highway #161 over -

pass). Set vertically in the southwest pile in the row of piles nearest the northwest track, 25 feet northwest of the centerline of the northwest track, 3 feet above the rails. Standard disk stamped "R 120 1935". El. Ft. 666.272

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 245. 631.7

For additional bench marks and descriptions in this vicinity, see page 80.

S-120 In Lee County, at New Boston, about 500 feet northeast of the depot at block signal #2431. Set in the foundation, 10 feet northwest of the centerline of the northwest track, 6 inches above the rails. Standard disk, set in concrete foundation, and stamped "S 120 1935". 642.814

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 243. 627.1

T-120 In Lee County, at Bricker, at the depot. Set in post 120 feet southwest of the depot, in the line of telegraph poles, midway between two poles, 45 feet southeast of the centerline of the southeast track, $6\frac{1}{2}$ feet below the rails. Standard disk, set in concrete post and stamped "T 120 1935". 562.939

Top of south rail opposite Atchison, Topeka & Santa Fe Railroad MP 241. 566.6

U-120 In Lee County, near Bricker, about 1.2 miles east of the depot, along the Atchison, Topeka and Santa Fe Railroad. At the overpass over the Chicago, Burlington and Quincy Railroad, standard disk is set in the west backwall, 10 feet south of the centerline of the south track, 6 inches below the rails. Stamped "U 120 1935". 576.101

For descriptions of additional bench marks in this vicinity, see page 10.

LINE 5654, MEDILL TO GLENWOOD JCT., MO.

(Second-order leveling)

This line follows the Chicago, Burlington, and Quincy Railroad from Medill to Glenwood Jct., Mo. The field work was done during March, 1935, by a party in charge of E. E. Stohsner.

For additional bench marks and descriptions in this vicinity, see page 60.

	El. Ft.
USGS 703-A Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 24.	714.5
U-85 In Clark County, at Ashton, between the public crossing at the depot, and the railroad water tank. Set in post 150 feet west of the centerline of the crossing, 36 feet east of the centerline of the tank, 48 feet north of the centerline of the track, at rail level. Standard disk stamped "U 85 1935".	721.554
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 26.	697.2
V-85 In Clark County, near Ashton, about 1.7 miles west of the depot, along the Chicago, Burlington and Quincy Railroad, at a private crossing 8½ poles west of bridge #26.58. Set in post 48 feet south of the centerline of the track, 21 feet east of the centerline of the road, 2 feet above the rails. Standard disk stamped "V 85 1935".	718.017
W-85 In Clark County, at Luray, at the Chicago, Burlington & Quincy Railroad depot. Set in post 18 feet south of the centerline of the track, 37 feet east of the centerline of a street crossing, 4 feet south of a telegraph pole, 3 feet above the rails. Standard disk stamped "W 85 1935".	736.829
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 28.	736.9
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 29.	725.2
X-85 In Clark County, near Luray, at bridge #30.62, 2.0 miles west of the depot on the Chicago, Burlington and Quincy Railroad. Set in post 100 feet west of the west end of the bridge, 36 feet south of the centerline of the track, 33 feet southeast of a telegraph	

	El. Ft.
pole, 5 feet below the rails. Standard disk stamped "X 85 1935".	639.762
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 30.	663.1
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 31.	645.8

Y-85 In Clark County, near Luray, about 2.0 miles west of the depot, along the Chicago, Burlington and Quincy Railroad. Set in the west end of the north headwall of a 5 foot concrete culvert 19 poles east of milepost #33. Standard disk stamped "Y 85 1935" and set below the rails 6 feet. 689.044

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 32. 678.1

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 33. 726.1

Z-85 In Scotland County, at Granger, at a street crossing immediately east of the depot. Set in post 48 feet east of the centerline of the track, 21 feet south of the centerline of the track, 2 feet northeast of a telegraph pole, at rail level. Standard disk stamped "Z 85 1935". 760.481

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 34. 758.3

A-86 In Scotland County, at Arbela, at the Chicago, Burlington and Quincy depot. Set in post across the track from the depot, 27 feet south of the centerline of the track, 13 feet east of a line drawn south from the east end of the depot, 2 feet south of a telegraph pole, 1 foot above the rails. Standard disk stamped "A 86 1935". 671.065

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 36. 677.8

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 37. 692.0

B-86 In Scotland County, near Arbela, about 2.3 miles west of the depot, along the Chicago, Burlington and Quincy Railroad, at a public crossing 4 poles east of milepost #39. Set in post 48 feet north of the centerline of the track, 27 feet west of the center-

line of the road, 4 feet southwest of corner fence post, at rail level. Standard disk stamped "B 86 1935". 774.920

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 38. 761.1

C-86 In Scotland County, near Arbela, about 4.2 miles west of the depot, along the Chicago, Burlington and Quincy Railroad to a 2 foot concrete pipe highway culvert at a public crossing, 8½ poles east of mile-post #41. Set in the east headwall, 48 feet south of the centerline of the track, 2 feet below the rails. Standard disk stamped "C 86 1935". 781.754

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 40. 780.0

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 41. 789.4

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 42. 788.4

D-86 In Scotland County, near Memphis, along the Chicago, Burlington and Quincy Railroad, about 1.7 miles east of the railroad water tank at Memphis, at a public crossing 10 poles east of bridge #43.60. Set in post 40 feet north of the centerline of the track, 22 feet west of the centerline of the road, 10 feet south of corner fence post, 6 feet below the rails. Standard disk stamped "D 86 1935". 777.771

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 43. 775.8

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 44. 754.2

E-86 In Scotland County, at Memphis, at the Chicago, Burlington and Quincy water tank, 300 feet east of the depot. Set in the southwest pedestal stone, 14 feet north of the centerline, 1 foot above the rails. Standard disk stamped "E 86 1935". 756.649

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 46. 712.4

Memphis-1934 In Scotland County, at Memphis, at the Scotland County courthouse. At a drinking fountain in the southwest quarter of the courthouse grounds.

Set in the southwest corner of the bottom step of the fountain, 6 inches above the ground. Standard disk stamped "Memphis 1934".	El. Ft. 800.661
F-86 In Scotland County, near Memphis, about 2.2 miles west of the railroad water tank, along the Chicago, Burlington and Quincy Railroad. At a private crossing 16 poles east of milepost #48. Set in post 31 feet south of the centerline of the track, 16 feet east of the centerline of the road, at rail level. Standard disk stamped "F 86 1935".	713.627
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 47.	702.8
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 48.	733.9
G-86 In Scotland County, near Crawford, about 2.0 miles east of the depot, along the Chicago, Burlington and Quincy Railroad to a private crossing, 3 poles west of milepost #49. Set in post in the line of poles, 32 feet south of the centerline of the track, 17 feet west of the centerline of the road, 2 feet above the rails. Standard disk stamped "G 86 1935".	720.067
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 50.	728.9
H-86 In Scotland County, at Crawford, along the Chicago, Burlington and Quincy Railroad, 147 feet east of the east end of the depot. Set in post 27 feet north of the centerline of the track, 72 feet southeast of a 30-inch oak tree, 2 feet above the rails. Standard disk stamped "H 86 1935".	734.969
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 52.	731.8
J-86 In Scotland County, near Crawford, about 2.2 miles west of the depot, along the Chicago, Burlington and Quincy Railroad to a private crossing 13 poles east of bridge #53.70. Set in post 48 feet north of the centerline of the track, 11 feet east of the centerline of the road, $2\frac{1}{2}$ feet below the rails. Standard disk stamped "J 86 1935".	730.609
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 53.	731.3

K-86 In Scotland County, near Downing, Schuyler County, 2.0 miles east of the depot at Downing, along the Chicago, Burlington and Quincy Railroad, at a crossing 9½ poles west of milepost #54. Set in post 47 feet north of the centerline of the track, 3 feet south of the right-of-way fence, 16 feet west of the centerline of the road, 3 feet below the rails. Standard disk stamped "K 86 1935". El. Ft. 757.236

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 54. 756.8

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 55. 796.7

USGS-875 A In Schuyler County, at Downing, at a brick store building north across the street from the Chicago, Burlington and Quincy depot. Set vertically in the south wall near the southeast corner of the building, 2 feet above the sidewalk. Bronze disk set vertically in brick wall. Stamped "875 A". 876.104

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 56. 866.6

L-86 In Schuyler County, at Downing, along the Chicago, Burlington and Quincy Railroad to a street crossing, about 250 feet west of the depot. Set in post 21 feet south of the centerline of the track, 33 feet west of the west edge of a concrete sidewalk along the west side of the street, 4 feet northeast of a telegraph pole, 1 foot below the rails. Standard disk stamped "L 86 1935". 872.741

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 57. 867.5

M-86 In Schuyler County, near Downing, about 2.1 miles west of the depot, along the Chicago, Burlington and Quincy Railroad, 18 poles west of milepost #58, at a public crossing. Set in post 47 feet south of the centerline of the track, 25 feet west of the centerline of the road, 5 feet northwest of a corner fence post, 3 feet below the rails. Standard disk stamped "M 86 1935". 800.464

N-86 In Schuyler County, near Downing, about 3.0 miles west of the depot, along the Chicago, Burlington and Quincy Railroad, to a public crossing 12 poles west of milepost #59. Set in post 48 feet south of the centerline of the track, 19 feet west of the center-

line of the road, 3 feet northwest of corner fence post, 2 feet below the rails. Standard disk stamped "N 86 1935". El. Ft. 815.353

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 59. 810.5

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 60. 817.1

P-86 In Schuyler County, near Downing, about 5.2 miles west of the depot, along the Chicago, Burlington and Quincy Railroad to a public crossing 2 poles west of bridge #61.57. Set in post 48 feet south of the centerline of the track, 50 feet east of the centerline of the road, 12 feet south of a telegraph pole, 3 feet below the rails. Standard disk stamped "P 86 1935". 825.258

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 61. 828.8

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 62. 833.4

Q-86 In Schuyler County, near Lancaster, about 2.0 miles east of the depot, along the Chicago, Burlington and Quincy Railroad to a point 5 poles east of bridge #63.86. Set in post directly across the track from the pole, 38 feet north of the centerline of the track, at rail level. Standard disk stamped "Q86 1935". 847.830

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 63. 842.6

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 64. 857.8

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 65. 918.2

P.T.Sta.#3 In Schuyler County, at Lancaster, at the Schuyler County Courthouse. Iron post in the southeast corner of the courthouse grounds, 51 feet north of the centerline of State Highway #4, 51 feet west of the centerline of the north and south street, 6 inches above the ground. Bronze cap stamped "P.T.Sta.No. 3 1910 Mo.". 967.350

R-86 In Schuyler County, at Lancaster, at the Chicago Burlington & Quincy Railroad depot. Set in post 100 feet east of the east end of the depot, 42 feet north of the centerline of the track, 3 feet south of a telegraph pole, 1 foot below the rails. Standard disk stamped "R 86 1935". El. Ft. 965.320

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 66. 970.2

S-86 In Schuyler County, near Lancaster, about 1.7 miles west of the depot, along the Chicago, Burlington & Quincy Railroad to a point 17 poles west of milepost #67. Set in post directly across the track from the pole, 50 feet north of the centerline of the track, 25 feet south of a road parallel to the railroad, 1 foot below rail level. Standard disk stamped "S 86 1935". 977.911

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 67. 979.1

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 68. 976.9

T-86 In Schuyler County, at Glenwood Junction, across the Wabash track from the Wabash-Burlington depot. Set in post on a line drawn west from the north end of the depot, 51 feet west of the centerline of the track, 6 inches below the rails. Standard disk stamped "T 86 1935". 996.399

For additional bench marks in this vicinity, see page 51.

LINE 5657, BLOOMFIELD TO DONNELLSON, IOWA

(Second-order leveling)

This line follows the Chicago, Burlington and Quincy Railroad from Bloomfield to Donnellson, Iowa. The field work was done during March and April, 1935 by a party in charge of E. E. Stohsner.

For additional bench marks and descriptions in this vicinity, see page 15.

Y-120 In Davis County, at Bloomfield, along the Chicago, Burlington & Quincy Railroad. Set in a concrete post, 165 feet east of depot; set 80 feet west of centerline of public road crossing, 16 feet south of centerline of track, 3 feet north of telegraph pole, at rail level. Standard disk stamped "Y 120 1935". El. Ft. 840.615

Z-120 In Davis County, at Bloomfield, at the Davis County Courthouse, along the south side of the city square. Set in concrete post, 90 feet east of centerline of Madison Street, 50 feet north of the centerline of Franklin Street, 78 feet west of sidewalk to courthouse, 5 feet north of curb, $\frac{1}{2}$ foot above ground. Standard disk stamped "Z 120 1935". 875.582

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 84. 828.0

USC & GS Reference-Bloomfield-1934 -Station #2

In Davis County, near Bloomfield, about 2.3 miles east of the railroad station, along the Chicago, Burlington and Quincy Railroad, 4 poles south of milepost #82, at public road crossing. Set in concrete post 24 feet north of centerline of crossing, 180 feet west of centerline of track, 78 feet west of 24-inch elm tree, one foot west of fence line, at track level. Reference mark stamped "Bloomfield 1934". 873.210

Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 83. 852.2

USC & GS Reference-Bloomfield-1934-Station #1

In Davis County, near Bloomfield, about 2.4 miles east of the railroad station, along the Chicago, Burlington and Quincy Railroad, 4 poles south of milepost #82, at public road crossing. Set in concrete post 58 feet southeast of centerline of crossing, 35 feet east of centerline of track, 30 feet south of centerline of road, 6 feet east and 2 feet north of right-of-way

	El. Ft.
fence corner post, at track level. Reference mark stamped "Bloomfield 1934".	872.990

Bloomfield-1934 In Davis County, near Bloomfield, about 2.4 miles east of the depot, along the Chicago, Burlington and Quincy Railroad at road crossing. Set in post 58 feet north of the centerline of the crossing, 40 feet west of the centerline of the tracks, 28 feet north, thence 1 foot east of right-of-way fence corner, 2 feet below rail level. Standard triangulation station disk stamped "Bloomfield 1934". 872.544

A-121 In Davis County, at Steuben Station, along the Chicago, Burlington and Quincy Railroad, 6 poles west of milepost #81. Set in concrete post 90 feet southeast of centerline of public road crossing, 35 feet east of centerline of road, 65 feet southwest of centerline of track, 17 feet east and 2 feet north of right-of-way fence, 2 feet below track level. Standard disk stamped "A 121 1935". 871.222

B-121 In Davis County, near Steuben Station, about 1.8 miles east of the depot, along the Chicago, Burlington & Quincy Railroad, 12 poles northwest of milepost #79, at 2 feet by 2 feet reinforced concrete box highway culvert. Set in concrete headwall 60 feet northeast of centerline of track, in the center of southwest headwall, 12 feet southwest of centerline of State Highway #3, 3 feet below track level. Standard disk stamped "B 121 1935". 859.057

Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 80. 864.9

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 78. 854.9

C-121 In Davis County, near Pulaski, about 2.0 miles northwest of the railroad station, along Chicago, Burlington and Quincy Railroad, $7\frac{1}{2}$ poles west of milepost #77, at private road crossing. Set in concrete post 50 feet west of centerline of public road crossing and 12 feet east of centerline of private road crossing, 26 feet south of centerline of track, 4 feet north of right-of-way fence, 1 foot below track level. Standard disk stamped "C 121 1935". 839.073

D-121 In Davis County, at Pulaski, along the Chicago, Burlington & Quincy Railroad, 120 feet west of depot. Set in concrete post 27 feet west of centerline of public road crossing, 27 feet north of centerline of

track, 2 feet south and 3 feet west of right-of-way fence corner, one foot below the track level. Standard disk stamped "D 121 1935". El.Ft. 837.803

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 76. 837.6

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 74. 831.7

USC & GS TRIANGULATION STATION-Daniels 1934

In Davis County, near Pulaski, about 3.3 miles east of the railroad station, along the Chicago, Burlington and Quincy Railroad, 6 poles east of milepost #72. Set in concrete post 31 feet south of centerline of track, 33 feet east of T fence south, one foot south of right-of-way fence, one foot below the track level. Standard disk stamped "Daniels 1934". 824.906

Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 73. 823.5

E-121 In Davis County, near Pulaski, about 2.3 miles east of the railroad station, along the Chicago, Burlington and Quincy Railroad at T fence north. Set in concrete post 27 feet northeast of centerline of track, 4½ poles southeast of milepost #73, 18 feet northwest of telegraph pole, 3 feet southwest of fence intersection with right-of-way fence post, 2 feet below track level. Standard disk stamped "E 121 1935". 826.481

USC & GS Reference Station #1--Daniels-1934 In Davis County, about 3.3 miles east of the railroad station at Pulaski, along the Chicago, Burlington and Quincy Railroad, 7 poles east of milepost #72. Set in concrete post 31 feet south of centerline of track, 160 feet east of T fence south, 130 feet east of Daniels Triangulation station, one foot south of right-of-way fence, 6 inches below track level. Standard triangulation station reference disk stamped "Daniels 1934". 825.425

F-121 In Davis County, near Milton, Van Buren County, about 2.3 miles west of the railroad station, along the Chicago, Burlington and Quincy Railroad, 153 feet east of milepost #71, at public road crossing. Set in concrete post 90 feet west of centerline of crossing, 30 feet south of centerline of track, 30 feet north of centerline of highway #3, five feet north of power line pole, 2 feet below track level. Standard disk stamped "F 121 1935". 817.502

	El. Ft.
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 70.	810.9
G-121 In Van Buren County, at Milton. Set in concrete post 15 feet east of railroad station, 27 feet north of centerline of track, 125 feet east of centerline of Main Street crossing, 4 feet east of telegraph pole, $1\frac{1}{2}$ feet below track level. Standard disk stamped "G 121 1935".	804.024
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 68.	803.6
H-121 In Van Buren County, near Milton, about 2.4 miles east of the railroad station, along the Chicago, Burlington & Quincy Railroad, 10 poles northwest of milepost #66, at public road crossing. Set in concrete post 52 feet southeast of centerline of crossing, 25 feet southwest of centerline of track, 9 feet southeast, thence 5 feet northeast of right-of-way fence corner, 2 feet below track level. Standard disk stamped "H 121 1935".	795.031
Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 67.	796.2
Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 66.	793.5
J-121 In Van Buren County, near Cantril, along the Chicago, Burlington and Quincy Railroad, about 1.1 miles west of the railroad station, $15\frac{1}{2}$ poles west of milepost #64. Set in east end of south headwall of 2 feet by 2 feet reinforced concrete box culvert, under State Highway #3, 45 feet north of centerline of track, 18 feet south of centerline of highway, five feet below track level. Standard disk stamped "J 121 1935".	782.069
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 65.	786.8
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 64.	787.3
K-121 In Van Buren County, at Cantril. Set in concrete base of city flag pole, 180 feet north of railroad at centerline of Main Street and Second Street crossing, 6 inches south of pole. Standard disk stamped "K 121 1935".	780.077

L-121 In Van Buren County, near Cantril, about 2.3 miles east of the railroad station, along the Chicago, Burlington & Quincy Railroad, 3 poles west of milepost #61, at private road crossing. Set in concrete post 16 feet west of centerline of crossing, 42 feet south of centerline of track, 2 feet north thence 6 feet west of telephone pole used as right-of-way fence corner post, 1½ feet above track level. Standard disk stamped "L 121 1935". El. Ft. 777.662

Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 62. 783.3

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 60. 722.3

M-121 In Van Buren County, near Mt. Sterling, about 3.5 miles west of the railroad station, along the Chicago, Burlington and Quincy Railroad, 14 poles east of milepost #59, at public road crossing. Set in concrete post 27 feet west of centerline of crossing, 35 feet north of centerline of track, 3 feet east, thence 5 feet north of right-of-way fence corner, 2½ feet above track level. Standard disk stamped "M 121 1935". 682.846

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 59. 691.4

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 58. 674.3

N-121 In Van Buren County, near Mt. Sterling, about 1.9 miles west of the railroad station, along the Chicago, Burlington & Quincy Railroad, 95 feet west of milepost #57 at public road crossing. Set in post 25 feet east of the centerline of the crossing, 33 feet north of the centerline of the track, 13 feet south of right-of-way fence, 5 feet west of telegraph pole, 1.5 feet below rail level. Standard disk stamped "N 121 1935". 656.475

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 56. 647.4

P-121 In Van Buren County, at Mt. Sterling, along the Chicago, Burlington & Quincy Railroad, 210 feet east of the depot. Set in post 4 poles west of milepost #55, 33 feet north of the centerline of the main tracks, 17 feet south of the centerline of siding, 4 feet east of telegraph pole, at rail level. Standard disk, set in concrete post and stamped "P 121 1935". 658.089

Q-121 In Van Buren County, near Mt. Sterling, about 1.4 miles east of the depot, along the Chicago, Burlington & Quincy Railroad, 11½ poles east of milepost #54, at public road crossing. Set in post 48 feet west of the centerline of the crossing, 43 feet north of the centerline of the track, 3 feet southwest of right-of-way fence corner, 1 foot below rail level. Standard disk, set in concrete post and stamped "Q 121 1935". El. Ft. 738.958

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 54. 729.2

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 53. 701.5

R-121 In Van Buren County, near Willit, about 1.1 miles west of the depot, along the Chicago, Burlington and Quincy Railroad, 8½ poles southwest of milepost #51, at a public road crossing. Set in post 90 feet southwest of the centerline of the crossing, 54 feet southeast of the centerline of the track, 9 feet east, thence 2 feet north of right-of-way fence corner, 15 feet southwest of 24-inch oak tree, 2.5 feet below rail level. Standard disk stamped "R 121 1935". 615.832

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 52. 651.3

Top of northwest rail Opposite Chicago, Burlington, and Quincy Railroad MP 51. 609.7

S-121 In Van Buren County, at Willit, along the Chicago, Burlington and Quincy Railroad, 144 feet northeast of the depot. Set in post 4½ poles southwest of milepost #50, 20 feet northwest of the centerline of the main tracks, 15 feet southeast of the centerline of the side track, 41 feet southwest of stock loading platform, 5 feet southwest of telegraph pole, at rail level. Standard disk, set in concrete post and stamped "S 121 1935". 602.427

T-121 In Van Buren County, near Willit, about 2.4 miles east of the depot, along the Chicago, Burlington and Quincy Railroad, 10 poles east of milepost #48, in limestone outcrop. Set 400 feet east of the centerline of wagon road crossing, 69 feet east of hand-car siding, 12 feet south of centerline of track, 4 feet below rail level. Standard disk set in limestore outcrop. Stamped "T 121 1935". 605.137 605.137

	El. Ft.
Top of northwest rail opposite Chicago, Burlington, and Quincy Railroad MP 49.	596.4
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 48.	595.8
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 47.	584.4

U-121 In Van Buren County, near Willit, about 4.6 miles east of the depot, along the Chicago, Burlington and Quincy Railroad, about 17 poles east of milepost #46, at 175 foot steel girder bridge #45.57 over Indian Creek. Set in the south end of the east abutment, 6 feet south of the centerline of the track, 0.5 feet below rail level. Standard disk, set in limestone abutment and stamped "U 121 1935". 556.085

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 45. 550.5

V-121 In Van Buren County, at Farmington, along the Chicago, Burlington & Quincy Railroad, at bridge #44.26 over the Des Moines River. Set in the south side of the west pier, 5 feet south of the centerline of the tracks, 0.5 feet east of the west edge of the pier, about 4 feet below rail level. Standard disk stamped "V 121 1935". 554.635

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 44. 559.2

W-121 In Van Buren County, at Farmington, along the Chicago, Burlington & Quincy Railroad, at the crossing of the Chicago, Rock Island and Pacific Railroad, 240 feet south of the Chicago, Burlington & Quincy Depot, at 6 foot by 4 foot R C B culvert under both tracks and wagon road. Set in the south end of the east guard rail of the road, 18 feet west of the centerline of the crossing, 25 feet south of the Pearl Street crossing, 0.5 foot below rail level. Standard disk stamped "W 121 1935". 569.441

X-121 In Lee County, near Farmington, Van Buren County, about 0.6 mile southeast of the depot at Farmington, along the Chicago, Burlington and Quincy Railroad, 44 feet northwest of milepost #43. Set in concrete post 13 feet northeast of the centerline of the track, 6 feet west of telegraph pole, 17 feet southwest of right-of-way fence, at rail level. Standard disk stamped "X 121 1935". 570.383

	El. Ft.
Top of northwest rail opposite Chicago, Burlington, and Quincy Railroad MP 42.	594.1
Y-121 In Lee County, near Farmington, Van Buren County, about 3.3 miles east of the depot, along the Chicago, Burlington and Quincy Railroad, 12½ poles west of milepost #40 at private road crossing. Set in post 5½ poles west of Railroad bridge #40.15, 30 feet west of the centerline of the crossing, 38 feet south of the centerline of the track, 7 feet north of right-of-way fence corner, 1.5 feet below rail level. Standard disk stamped "Y 121 1935".	638.827
Top of northwest rail opposite Chicago, Burlington, and Quincy Railroad MP 41.	654.2
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 40.	619.6
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 39.	623.1
Z-121 In Lee County, near Warren, about 1.2 miles west of the depot, along the Chicago, Burlington and Quincy Railroad, 10 poles west of milepost #37, at public road crossing. Set in post 26 feet northwest of the centerline of the crossing, 23 feet west of the centerline of the road, 5 feet south of telephone pole in line of poles, 6 feet west of telegraph pole, 5 feet south of right-of-way fence corner, 2.5 feet below rail level. Standard disk stamped "Z 121 1935".	677.174
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 38.	643.2
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 37.	696.3
A-122 In Lee County, at Warren, along the Chicago, Burlington and Quincy Railroad, 90 feet east of the depot. Set in post 3 poles west of milepost #36, 21 feet east of the centerline of private road crossing, 27 feet south of the centerline of the track, 5 feet east of power line pole, in line of poles, at rail level. Standard disk stamped "A 122 1935".	706.997
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 35.	652.6

B-122 In Lee County, near Donnellson, about 1.0 mile west of the depot, along the Chicago, Burlington and Quincy Railroad, 4-2/3 poles west of milepost #34, at public road crossing. Set in post 42 feet west of the centerline of the crossing, 42 feet north of the centerline of the track, 6 feet west, thence 3 feet south of the right-of-way fence corner, 3 feet below rail level. Standard disk stamped "B 122 1935". El. Ft. 662.371

C-122 In Lee County, at Donnellson, along the Chicago, Burlington and Quincy Railroad, at street crossing 1 block west of Main Street crossing. Set in post 26 feet east of the centerline of the crossing, 32 feet north of the centerline of the track, 3 feet northwest of right-of-way fence corner, 1 foot below rail level. Standard disk stamped "C 122 1935". 704.782

For additional bench marks and descriptions in this vicinity, see pages 80 and 81.

LINE 5660. NEW BOSTON TO DONNELLSON, IOWA.

(Second-order leveling)

This line follows Highway #161 from New Boston to Donnellson, Iowa. The field work was done during the month of February, 1935, by a party in charge of E.E. Stohsner.

For descriptions of additional bench marks in this vicinity, see page 63.

J-122 In Lee County, at New Boston, along Highway #161 at cross road. At junction of road to east to New Boston Depot. Set in post, 33 feet southwest of centerline of highway, 15 feet northwest of centerline of side road and 3 feet northwest of telephone pole. Standard disk stamped "J 122 1935". El. Ft. 697.922

K-122 In Lee County, at Charleston, along Highway #161 at entrance to Charleston Cemetery. Set in post, 48 feet southwest of centerline of highway along fence to west, 4 feet west of gate post. Standard disk stamped "K 122 1935". 691.390

L-122 In Lee County, near Charleston, about 1.7 miles northwest of the cemetery along Highway #161 at junction of road to west. Set in post, 39 feet southwest of centerline of highway, 45 feet northwest of centerline of side road and 18 feet northwest of fence corner. On edge of cut, one foot northeast of highway fence line. Standard disk stamped "L 122 1935". 703.060

M-122 In Lee County, near Donnellson, about 1.9 miles south of Chicago, Burlington and Quincy Railroad and Highway #161 crossing. Along Highway #161 at junction of road to west. Set in post, 45 feet west of centerline of highway, 36 feet south of centerline of side road and 5 feet south of fence corner. At crest of cut, 1 foot east of fence line. Standard disk stamped "M 122 1935". 704.382

N-122 In Lee County, at Donnellson, along Highway #161 at Chicago, Burlington and Quincy Railroad crossing. Set in post at the southwest corner of the railroad park, about 400 feet west of depot, 42 feet east of centerline of highway, 28 feet north of centerline of the north tracks and 2 feet south of telegraph pole. Standard disk stamped "N 122 1935". 704.034

For descriptions of additional bench marks in this vicinity, see pages 79 and 81.

LINE 5663. DONNELLSON TO WASHINGTON, IOWA.

(Second-order leveling)

This line follows Highway #161 from Donnellson to Crawfordsville, Iowa, and follows the Chicago, Burlington, and Quincy Railroad from Crawfordsville to Washington. The field work was done during February , 1935, by a party in charge of E. E. Stohsner.

For descriptions of additional bench marks in this vicinity, see pages 79 and 80.

P-122	In Lee County, near Donnellson, about 1.7 miles north of the Chicago, Burlington & Quincy Railroad and Highway #161 crossing, along Highway #161 at cross road. Set in post, 36 feet south of centerline of side road, 27 feet east of centerline of highway and 3.5 feet west of fence corner. Flush with ground. Standard disk stamped "P 122 1935 56-31".	El. Ft. 694.818
Q-122	In Lee County, near Donnellson, about 3.9 miles north of the intersection of Highway #161 and the Chicago, Burlington and Quincy Railroad, along Highway #161, about 400 feet north of school yard at Dover. Set in post, opposite point 77 feet north of highway station #1222, 32 feet east of centerline of highway and one foot west of fence line, opposite fence post. Flush with ground and on crest of cut. Standard disk stamped "Q 122 1935 56-33".	699.743
R-122	In Lee County, near Donnellson, about 5.3 miles north of the intersection of Highway #161 and the Chicago, Burlington and Quincy Railroad, along Highway #161. Set in post, opposite point 81 feet north of highway station #1302, 33 feet east of centerline of highway, 3 feet northwest of fence corner, 1 foot west of fence line and about 3 feet above road level. Standard disk stamped "R 122 1935 56-34".	700.445
S-122	In Lee County, near Donnellson, about 5.6 miles north of the intersection of Highway #161 and the Chicago, Burlington and Quincy Railroad. Set in post, along Highway #161 at junction of Highway #103, opposite point 4 feet south of highway station #1317, in the southeast angle of the southeast "Y", 28 feet east of centerline of Highway #161. Standard disk stamped "S 122 1935 56-35".	694.926
T-122	In Lee County, near Donnellson, 7.6 miles north of the Chicago, Burlington & Quincy Railroad and High-	

way #161 crossing at Donnellson. Along Highway #161 at junction of farm to east. Set in post, 30 feet east of centerline of highway, 24 feet south of centerline of side road, 3 feet south of fence corner, 6 inches west of fence line and about one foot below level of highway. Standard disk stamped "T 122 1935". El. Ft. 710.642

U-122 In Lee County, near Donnellson, about 9.7 miles north of the intersection of the Chicago, Burlington & Quincy Railroad with Highway #161. Along Highway #161 at Highway #16 crossing. Set in post at the southeast corner of the northwest triangular park between junctions, 23 feet north of centerline of Highway #16 and 22 feet west of centerline of Highway #161. Standard disk stamped "U 122 1935". 643.207

V-122 On the Lee-Henry County Line, near Donnellson, Lee County, about 11.7 miles north of the intersection of Highway #161 with the Chicago, Burlington & Quincy Railroad at Donnellson. Along Highway #161 at the County Line. Set in post, 30 feet east of centerline of highway, 15 feet north of centerline of gate-way. On fence line, about one foot below level of highway surface. Standard disk stamped "V 122 1935". 711.564

W-122 In Henry County, near Mt. Pleasant, about 9.0 miles south of the City Square, along Highway #161 at cross road, 1.5 miles north of Lee-Henry County Line. Set in post, 60 feet north of centerline of side road, 48 feet west of centerline of highway, 2 feet east of fence line and about one foot below highway level. Standard disk stamped "W 122 1935". 687.184

X-122 In Henry County, near Mt. Pleasant, about 8.3 miles south of the City Square, along Highway #161 at junction of Highway #125. Set in post at southeast corner of the northwest triangular park between junctions, 42 feet north of centerline of Highway # 125 and 40 feet west of centerline of Highway # 161. Standard disk stamped "X 122 1935". 716.377

Y-122 In Henry County, near Mt. Pleasant, about 7.2 miles south of the City Square, along Highway #161 at concrete bridge, about 250 feet south of junction of road to east. Set on the northeast wingwall, 4 feet southwest of the end. About $2\frac{1}{2}$ feet above the surface of the pavement. Standard disk stamped "Y 122 1935". 604.585

Z-122 In Henry County, near Mt. Pleasant, about 6.0 miles south of the City Square, along Highway #161, at cross road. Set in center of the east headwall of

culvert, 23 feet east of centerline of the highway, 20 feet north of centerline of side road and about level with the pavement. Standard disk stamped "Z 122 1935". El. Ft. 702.371

A-123 In Henry County, near Mt. Pleasant, about 4.7 miles south of City Square along Highway #161. Set 2 feet north of the south end of the east headwall of the Skunk River Bridge, 18 inches north of concrete railing post. About 6 inches above surface of highway. Standard disk stamped "A 123 1935". 572.738

B-123 In Henry County, near Mt. Pleasant, about 2.5 miles south of the City Square. Along Highway # 161, at concrete steel bridge, 2.2 miles north of Skunk River Bridge. Set two feet north of the south end of east headwall, 18 inches north of concrete railing post, 6 inches above surface of pavement. Standard disk stamped "B 123 1935". 611.774

Mt. Pleasant #1 In Henry County, at Mt. Pleasant. At the City Square. Standard disk, set in post at the northwest corner of the park and stamped "Mt.Pleasant 1934 #1". 736.101

Mt. Pleasant #2 In Henry County, at Mt. Pleasant. At Saunders Park. Set 7 feet northwest of the southeast end of the northeast headwall of concrete bridge, about 100 feet northeast of swimming pool. Standard disk stamped "Mt. Pleasant #2 1934". 665.077

C-123 In Henry County, near Mt. Pleasant, 2.8 miles north of the City Square. Along Highway #161 at junction of road to west and beginning of curve in highway to northeast. Set in post, 66 feet west of centerline of highway, 21 feet south of centerline of side road, 4 feet south of fence corner and 1 foot east of fence line. About 3 feet above road level. Standard disk stamped "C 123 1935". 732.863

For descriptions of additional bench marks in this vicinity, see pages 95 and 96.

D-123 In Henry County, near Mt. Pleasant, 4.6 miles north of the city square at Mt. Pleasant. Along Highway #161 at concrete bridge. Set 3.5 feet southwest of the end of the northeast wingwall, 2 feet above surface of pavement. Standard disk set in concrete wingwall, stamped "D-123, 1935". 670.612

E-123 In Henry County, near Mt. Pleasant, 5.6 miles north of the city square at Mt. Pleasant. Along Highway #161 at concrete bridge. Set on the east wingwall, 6 inches southeast of headwall and level with surface of pavement. Standard disk set in concrete wingwall, stamped "E-123, 1935". El. Ft. 672.469

F-123 In Henry County, near Mt. Pleasant, 7.0 miles north of the city square at Mt. Pleasant. Along Highway #161 at cross road, about 500 feet north of the Prairie Gem Methodist Episcopal Church. Set in post on opposite side of highway from school, 60 feet east of centerline of highway, 50 feet south of centerline of side road and 15 feet south of fence corner. 18 inches west of fence line and about 3 feet below level of highway. Standard disk set in concrete post. Stamped "F-123, 1935". 720.215

G-123 In Henry County, near Olds, 3.0 miles south of the depot. Along Highway #161 at cross road. Set in post, 48 feet east of centerline of highway, 26 feet north of centerline of side road, 12 feet east of fence corner and 1 foot south of fence line. Standard disk set in concrete post. Stamped "G-123, 1935". 734.201

H-123 In Henry County, near Olds, 2.0 miles south of the depot. Along Highway #161, opposite Swedesburg Evangelical Lutheran Church. Set in post, 2 feet northwest of fence corner, 10 feet north of northwest corner of garage building, 93 feet north of cross road and 33 feet east of centerline of highway. Standard disk set in concrete post, stamped "H-123, 1935". 732.266

J-123 In Henry County, near Olds, 1.0 mile south of depot. Along Highway #161, at cross road and junction of Highway #78. Set in post, 50 feet west of centerline of highway, 33 feet south of centerline of side road and 9 feet south of fence corner. 1 foot east of fence line and about level with highway. Standard disk set in concrete post, stamped "J-123, 1935". 737.541

K-123 In Henry County, at Olds. Along Highway #161, at railroad crossing. Set in post, 170 feet west of centerline of highway, 54 feet west of the west end of the depot, 30 feet south of centerline of the tracks and 3 feet north of guy-pole. Standard disk set in concrete post, stamped "K-123, 1935". 733.870

For descriptions of additional bench marks in this vicinity, see page 102.

L-123 In Henry County, near Olds, 1.1 miles north of the depot. Along Highway #161 at railroad crossing at Wayne. Set in center of the east headwall of highway culvert, 60 feet south of the centerline of the main tracks. Standard disk set in concrete headwall. Stamped "L-123, 1935". — El. Ft. 698.850

M-123 In Washington County, near Olds, 3.1 miles north of depot. Along Highway #161 at concrete-steel bridge. Set 3 feet northeast of the southwest end of the southeast headwall, about 8 inches above surface of Highway. Standard disk set in concrete headwall. Stamped "M-123, 1935". — 654.172

Ia. Hwy. Comm. BM In Washington County, at Wayne. At the crossing of the Chicago, Burlington & Quincy Railroad and highway #161. Set in the east headwall of box culvert, 92 feet north of centerline of highway #161. $1\frac{1}{4}$ inch metal disk stamped "I H C BM". — 699.300

N-123 In Washington County, near Crawfordsville. 1.2 miles south of Chicago, Burlington, & Quincy Railroad and Highway #161 crossing at Crawfordsville, along Highway #161 at concrete bridge. Set on the northeast wingwall about level with the pavement. Standard disk set in concrete wingwall, stamped "N-123, 1935". — 657.472

P-123 In Washington County, at Crawfordsville. Along Highway #161 at the Chicago, Burlington, and Quincy Railroad crossing. Set in a post, 45 feet west of the centerline of the highway, and 25 feet north of the centerline of tracks, 6 feet southwest of centerline of fence corner and about 3 feet above track level. Standard disk set in concrete post, stamped "P-123, 1935". — 732.807

Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 43. — 709.1

Q-123 In Washington County, near Crawfordsville. Along the Chicago, Burlington and Quincy Railroad, 1.5 miles northwest of the Chicago, Burlington & Quincy Railroad and Highway #161 crossing at Crawfordsville, and at a road crossing. Set in a post, 32 feet west of the centerline of road, 27 feet northeast of centerline of tracks, 8 feet northwest of fence corner and 2 feet southwest of fence line. Standard disk set in concrete post, stamped "Q-123, 1935". — 737.590

R-123 In Washington County, near Crawfordsville. Along the Chicago, Burlington and Quincy Railroad, at a road

	El. Ft.
crossing, 2.7 miles northwest of the Chicago, Burlington, and Quincy Railroad and Highway #161 crossing at Crawfordsville. Set in post, 32 feet west of centerline of the road, 30 feet northeast of centerline of the tracks and 2 feet southwest of fence corner. About 1 foot below level of tracks. Standard disk set in concrete post, and stamped "R-123, 1935".	741.527
Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 45.	737.5
Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 46.	744.0
S-123 In Washington County, near Crawfordsville. Along the Chicago, Burlington, and Quincy Railroad at a road crossing 4.1 miles northwest of the Chicago, Burlington, and Quincy Railroad and Highway #161 crossing at Crawfordsville. About 10 poles southeast of station at Haven. Set in post, 20 feet north of centerline of road, 18 feet southwest of centerline of the tracks, 1 foot southeast of fence corner and about 2 feet below track level. Standard disk set in concrete post and stamped "S-123, 1935".	746.816
Top of southwest rail opposite Chicago, Burlington, and Quincy Railroad MP 47.	749.2
T-123 In Washington County, near Washington, 4.8 miles southeast of the depot. Along the Chicago, Burlington and Quincy Railroad at road crossing. Set in a post, 27 feet west of the centerline of the road, 21 feet northeast of centerline of tracks, 2 feet northeast of pole and about 2 feet below track level. Standard disk set in concrete post and stamped "T-123, 1935".	748.338
Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 48.	750.9
U-123 In Washington County, 3.3 miles southeast of depot at Washington. Along the Chicago, Burlington, and Quincy Railroad at road crossing. Set in post 24 feet west of centerline of road, 24 feet northeast of centerline of the tracks and 2 feet southeast of fence corner. About 2 feet below track level. Standard disk set in concrete post and stamped "U-123, 1935".	748.578
Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 49.	752.0

V-123 In Washington County, 1.8 miles southwest of the depot at Washington. Along the Chicago, Burlington and Quincy Railroad at road crossing. Set in a post 25 feet west of centerline of road, 20 feet northeast of centerline of tracks and 3 feet west of fence corner. About level with the tracks. Standard disk set in concrete post and stamped "V-123, 1935". — El. Ft. 752.909

Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 50. — 747.2

Top of northeast rail opposite Chicago, Burlington, and Quincy Railroad MP 51. — 755.1

W-123 In Washington County, in Washington. Along the Chicago, Burlington and Quincy Railroad at street crossing, 0.6 miles south of depot. Set in post 33 feet south of centerline of the street, 18 feet east of centerline of the tracks and 4 feet south of pole. Standard disk set in concrete post and stamped "W-123, 1935". — 756.757

X-123 In Washington County, in Washington. Along the Chicago, Burlington and Quincy Railroad at the depot. Set in a post 33 feet south of the south end of depot and 9 feet west of the west edge of brick platform. About in the center of a triangular space between tracks. Standard disk set in concrete post and stamped "X-123, 1935". — 758.712

For descriptions of additional bench marks in this vicinity, see page 28.

LINE 5666. OTTUMWA TO MT. PLEASANT, IOWA.

(Second-order leveling)

This line follows the Chicago, Burlington and Quincy Railroad from Ottumwa to Mt. Pleasant, Iowa. The field work was done in March, 1935, by a party in charge of E. E. Stohsner.

For descriptions of additional bench marks in this vicinity, see pages 13 and 24.

		El. Ft.
Y-123	In Wapello County, near Ottumwa, about 1.3 miles east of the Chicago, Milwaukee, St. Paul and Pacific Railroad depot. Along the Chicago, Burlington and Quincy Railroad at overpass #278.16. Set in the south end of the east abutment 6 feet south of the centerline of the south track, level with rail base. Standard disk stamped "Y 123 1935".	657.243
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 278.	663.2
Z-123	In Wapello County, near Ottumwa, about 2.1 miles east of the Chicago, Milwaukee, St. Paul and Pacific Railroad depot. Along the Chicago, Burlington and Quincy Railroad at overpass #277.45. Set on the north end of the east abutment 5 feet north of the centerline of the north tracks at level of rail base. Standard disk stamped "Z 123 1935".	680.117
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 277.	695.2
A-124	In Wapello County, near Agency City, about 1.6 miles west of the depot, along the Chicago, Burlington and Quincy Railroad at underpass #275.19. Set in post 24 feet south of the centerline of the south tracks, 10 feet east of bridge on the east edge of cut, 1 foot above rail level. Standard disk stamped "A 124 1935".	762.744
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 276.	731.8
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 275.	764.5
B-124	In Wapello County, at Agency City, along the Chicago, Burlington and Quincy Railroad at road crossing 100 feet west of the depot, 15 feet north of the northeast corner of the Agency City Cemetery, 16 feet	

south of the centerline of the south tracks, 24 feet west of centerline of the road, 6 feet northwest of power line pole, about 1.5 feet above rail level. Standard disk stamped "B 124 1935" and set in concrete post. El. Ft. 805.057

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 274. 793.6

Top of north rail opposite the depot at Agency City. 804.3

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 273. 805.3

C-124 In Wapello County, near Agency City, about 2.1 miles east of the depot, along the Chicago, Burlington and Quincy Railroad, at road crossing. Set in post 78 feet north of the centerline of the north tracks, 24 feet west of the centerline of the road, 4 feet southwest of fence corner and one foot south of fence line, at rail level. Standard disk, set in concrete post and stamped "C 124 1935". 797.961

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 272. 805.9

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 271. 804.6

D-124 In Wapello County, near Batavia, Jefferson County, about 3.6 miles west of the depot. Along the Chicago, Burlington & Quincy Railroad, at the crossing of Highway #98. Set in post at fence corner with power transformers, 60 feet south of the centerline of the south tracks, 54 feet west of centerline of highway, 15 feet west of fence corner and 2 feet north of fence line, about 4 feet below rail level. Standard disk stamped "D 124 1935". 800.317

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 269. 797.4

E-124 In Wapello County, near Batavia, Jefferson County, about 1.6 miles west of the depot, along the Chicago, Burlington and Quincy Railroad, at road crossing. Set in post 54 feet north of the centerline of the north tracks, 33 feet west of the centerline of the road and 1 foot south of fence line, about 3 feet below rail level. Standard disk stamped "E 124 1935". 778.181

	El. Ft.
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 267.	756.3
F-124 In Jefferson County, at Batavia, along the Chicago, Burlington and Quincy Railroad at the southeast corner of the city square. Set in post 60 feet north of the depot, 4 inches east of the concrete foundation around the park, 3 feet north of corner post, at ground level. Standard disk stamped "F 124 1935".	731.570
Top of north rail opposite the depot at Batavia.	731.1
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 266.	726.9
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 265.	729.8
G-124 In Jefferson County, near Batavia, along the Chicago, Burlington and Quincy Railroad at road crossing, at overpass #264.78, about 1.6 miles east of the depot at Batavia. Set on the top step on the north end of the east abutment about 8 feet north of the centerline of the north tracks, at rail base level. Standard disk stamped "G 124 1935".	725.996
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 264.	726.0
H-124 In Jefferson County, at Bernhart, along the Chicago, Burlington and Quincy Railroad at underpass #261.71, about 600 feet west of the depot. Set on the northwest corner of the southwest concrete foundation pedestal of the bridge, 8 feet south of the centerline of the tracks. Standard disk stamped "H 124 1935".	738.230
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 263.	699.2
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 262.	733.6
Top of north rail opposite the depot at Bernhart.	737.7
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 261.	726.8
J-124 In Jefferson County, near Bernhart, about 1.8 miles east of the depot, along the Chicago, Burlington & Quincy Railroad at underpass #259.87 at the crossing of U. S. Highway #34. Set in post 11.6 feet west of	

bridge, 16 feet north of the north rail of the north tracks and 4 feet south of pole, about 3 feet north of bottom of back slope and one foot above rail level. Standard disk stamped "J 124 1935". El. Ft. 736.084

K-124 In Jefferson County, near Bernhart, about 3.0 miles east of the depot, along the Chicago, Burlington and Quincy Railroad at underpass #258.69. Set on the northwest corner of the southwest pedestal of bridge, 8 feet south of the centerline of the south tracks, at rail base level. Standard disk stamped "K 124 1935". 738.955

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 259. 737.4

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 258. 721.3

L-124 In Jefferson County, at Fairfield, along the Chicago, Burlington and Quincy Railroad at the 9th Street crossing at milepost #256. Set in post on the opposite side of the tracks from the Dexter Washing Machine Company, 39 feet west of the centerline of the street, 9 feet north of the centerline of the north track, and three feet east of the milepost, at rail level. Standard disk stamped "L 124 1935". 774.907

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 257. 742.9

M-124 In Jefferson County, at Fairfield, along the Chicago, Burlington & Quincy Railroad at street crossing about 150 feet east of the depot. Set in post at the northeast corner of the east Railroad Park, 15 feet south of the centerline of the south tracks, 44 feet west of the centerline of the street. Standard disk stamped "M 124 1935". 771.527

Top of south rail opposite the depot at Fairfield. 771.7

Fairfield-1934 In Jefferson County, at Fairfield, at Parsons College at the corner of North 4th and Merral Streets. Standard disk, set in post at the southwest corner of the college grounds opposite the centerline of the curve in the highway, and stamped "Fairfield 1934". 757.318

Triangulation BM Fairfield-1934 In Jefferson County, at Fairfield, at the southeast corner of the County Court House Grounds. Set in post flush with ground, 73 feet north of the east-west sidewalk, 25 feet west

	El. Ft.
of the north-south sidewalk. Triangulation disk stamped "Fairfield 1934".	778.046
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 255.	757.3

N-124 In Jefferson County, near Fairfield, about 2.3 miles east of the depot, along the Chicago, Burlington and Quincy Railroad at overpass #253.10 at road crossing. Set on the north end of the top step of the east abutment, 6 feet north of the centerline of the north track, 1 foot below rail level. Standard disk stamped "N 124 1935". 759.789

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 254.	745.5

P-124 In Jefferson County, near Beckwith, about 1.3 miles west of the depot, along the Chicago, Burlington and Quincy Railroad at road crossing. Set in post on the top of dump, 21 feet west of the centerline of the road, 10 feet south of the centerline of the south tracks, at rail level. Standard disk stamped "P 124 1935". 782.328

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 252.	782.6

Q-124 In Jefferson County, near Beckwith, 0.4 mile west of the depot, along the Chicago, Burlington and Quincy Railroad at culvert about 500 feet west of road crossing. Set in the south headwall 0.5 foot east of the west end, about 5 feet below rail level. Standard disk stamped "Q 124 1935". 775.874

R-124 In Jefferson County, at Beckwith, along the Chicago, Burlington and Quincy Railroad. Set in post at the northeast corner of flower garden, 61 feet east of the depot, and 14 feet south of the centerline of the south tracks. Standard disk stamped "R 124 1935". 778.581

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 251.	783.0
Top of south rail opposite the depot at Beckwith.	778.8
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 250.	777.1

S-124	In Jefferson County, near Beckwith, about 1.9 miles east of the depot, along the Chicago, Burlington & Quincy Railroad at road crossing. Set in post 33 feet east of the centerline of the road, 30 feet south of the centerline of the south tracks and 4 feet northeast of fence corner, at rail level. Standard disk stamped "S 124 1935".	El. Ft. 760.950
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 249.	766.3
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 248.	758.3
T-124	In Jefferson County, at Glendale, along the Chicago, Burlington & Quincy Railroad. Set in post opposite block signal #N-2473, 48 feet south of the centerline of the south tracks and 5 feet east of pole. Standard disk stamped "T 124 1935".	757.623
	Top of north rail opposite Chicago, Burlington and Quincy Railroad MP 247.	753.4
U-124	In Jefferson County, near Lockridge, about 1.4 miles west of the depot, along the Chicago, Burlington and Quincy Railroad at underpass #245.35. Set on the northeast corner of the southeast concrete foundation of pedestal, 11 feet south of the centerline of the south tracks, 1.5 feet above rail level. Standard disk stamped "U 124 1935".	731.101
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 246.	722.8
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 245.	734.8
V-124	In Jefferson County, at Lockridge along the Chicago, Burlington and Quincy Railroad. Set in post 100 feet west of the block signal in front of the depot, 34 feet north of the centerline of the north tracks and 3 feet northeast of pole, 1.5 feet above rail level. Standard disk stamped "V 124 1935".	734.451
	Top of south rail opposite the depot at Lockridge.	733.4
W-124	In Jefferson County, near Lockridge, about 0.5 mile east of the depot, along the Chicago, Burlington and Quincy Railroad at overpass #243.22. Set on the top step of the west end of the west abutment, 7 feet south of the centerline of the south tracks	

	El. Ft.
and about 1 foot below rail level. Standard disk stamped "W 124 1935".	719.362
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 243.	716.3
X-124 In Henry County, near Rome, about 1.4 miles west of the depot, along the Chicago, Burlington and Quincy Railroad at underpass #241.75. Set on the northwest corner of the southwest concrete foundation of pedestal, 9 feet south of the centerline of the south tracks at rail level. Standard disk stamped "X 124 1935".	675.760
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 242.	683.7
Y-124 In Henry County, at Rome, along the Chicago, Burlington & Quincy Railroad at underpass #240.35, at the east end of the depot. Set on the northeast corner of the second step at the north end of the west abutment, about 5 feet below rail level. Standard disk stamped "Y 124 1935".	621.259
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 241.	649.8
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 240.	615.5
Z-124 In Henry County, near Rome, about 1.6 miles east of the depot, along the Chicago, Burlington & Quincy Railroad at overpass #238.73, at road crossing. Set on the top step at the north end of the west abutment, 6 feet north of the centerline of the north tracks and about 1 foot below rail level. Standard disk stamped "Z 124 1935".	639.536
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 239.	631.8
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 238.	665.4
A-125 (Reset 1936) In Henry County, near Mt. Pleasant, about 3.3 miles west of the depot, along the Chicago, Burlington and Quincy Railroad at underpass #236.60. Set on the southwest corner of the northwest concrete foundation of pedestal of bridge, 16.5 feet north of the centerline of the north tracks, 6 inches above rail level. Standard disk stamped "A 125 1935".	709.851

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 237. El. Ft. 699.9

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 236. 693.3

B-125 In Henry County, near Mt. Pleasant, about 1.7 miles west of the depot, along the Chicago, Burlington & Quincy Railroad at underpass #235.16 at the crossing of U. S. Highway #34. Set at center point between the two most easterly pedestals on the north side of the track, 13 feet north of the centerline of the north tracks, 1 foot below rail level. Standard disk stamped "B 125 1935". 712.577

For descriptions of additional bench marks in this vicinity, see pages 83 and 96.

LINE 5669. MT. PLEASANT TO BURLINGTON, IOWA

(Second-order leveling)

This line follows the Chicago, Burlington and Quincy Railroad from Mt. Pleasant to Burlington, Iowa. The field work was done in February, 1935 by a party in charge of E. E. Stohsner.

For descriptions of additional bench marks in this vicinity, see pages 83 and 95.

G-125	In Henry County, at Mt. Pleasant, along the Chicago, Burlington and Quincy Railroad at the Railroad Park, 50 feet west of depot. Set in post at the SE corner, 60 feet south of centerline of the south track, 40 feet west of centerline of the road and 8 feet west of fence corner. Standard disk stamped "G 125 1935". Reported in 1938--cracked and loose.	El. Ft. 729.838
	Top of south rail opposite the depot at Mt. Pleasant.	729.7
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 233.	732.6
H-125	In Henry County, at Mt. Pleasant, 1.6 miles east of the depot, along the Chicago, Burlington and Quincy Railroad at road crossing, about 200 feet east of milepole #232. Set in post, 44 feet south of centerline of the south tracks, 30 feet east of centerline of road and 5 feet east of fence corner, 1 foot nath of fence line and slightly below track level. Standard disk stamped "H 125 1935".	723.233
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 231.	727.7
J-125	In Henry County, near Mt. Pleasant, about 3.7 miles east of the depot, along the Chicago, Burlington & Quincy Railroad at road crossing. 44 feet south of centerline of the south tracks, 36 feet east of centerline of road, 12 feet east of fence corner and 1 foot north of fence line. About level with tracks. Standard disk, set in concrete post and stamped "J 125 1935".	726.790
	Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 229.	734.6

K-125 In Henry County, near New London, about 3.4 miles northwest of the depot, along the Chicago, Burlington & Quincy Railroad at road crossing, 8 poles northwest of milepole #228. Set in post, 45 feet southwest of centerline of the southwest tracks, 30 feet southeast of centerline of the road and 4 feet southeast of fence corner. One foot northeast of fence line and about 3 feet below track level. Standard disk stamped "K 125 1935". El. Ft. 729.976

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 227. 727.1

L-125 In Henry County, near New London, about 1.3 miles northwest of the depot, along the Chicago, Burlington & Quincy Railroad at road crossing, 4 poles northwest of milepole #226. Set in post, 50 feet southeast of centerline of road, 30 feet northeast of centerline of the northeast tracks and 4 feet southwest of pole. About level with tracks. Standard disk stamped "L 125 1935". 758.643

M-125 In Henry County, at New London, along the Chicago, Burlington and Quincy Railroad at road crossing, 0.5 mile northwest of depot. Set in post, 80 feet north of block signal #S-2252, 30 feet southeast of centerline of road and 30 feet northeast of centerline of northeast main tracks, 3 feet southwest of telegraph pole and about level with tracks. Standard disk stamped "M 125 1935". 775.294

N-125 In Henry County, at New London, along the Chicago, Burlington and Quincy Railroad at road crossing, 150 feet northwest of depot. Set in post, 45 feet east of block signal #N-2249, 34 feet northeast of centerline of the northeast main tracks, 27 feet northwest of centerline of road and 3 feet southwest of pole with cable to signal. Standard disk stamped "N 125 1935". 769.890

Top of north rail opposite the depot at New London. 769.2

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 224. 762.3

P-125 In Des Moines County, near New London, Henry County, about 2.5 miles southeast of the New London depot. Along the Chicago, Burlington and Quincy Railroad at railroad culvert, 50 feet southeast of block signal #N-222. Set in center of the southwest headwall, about 7 feet below track level. Standard disk stamped "P 125 1935". 733.591

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 223. El. Ft. 746.1

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 222. 740.8

Q-125 In Des Moines County, near Danville, about 2.3 miles northwest of the depot, along the Chicago, Burlington and Quincy Railroad at road crossing. Set in post, 42 feet northwest of centerline of road, 36 feet northeast of centerline of the northeast tracks and 3 feet southwest of pole with two guy wires. About 1 foot below level of the tracks. Standard disk stamped "Q 125 1935". 728.860

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 220. 736.0

R-125 In Des Moines County, at Danville, along the Chicago, Burlington and Quincy Railroad. Set in post, 66 feet northwest of the north corner of the depot, 15 feet southwest of centerline of the southwest tracks and one foot northwest of pipe fence. Standard disk stamped "R 125 1935". 727.105

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 219. 730.3

Top of south rail opposite the depot at Danville. 726.7

S-125 In Des Moines County, at Danville, along north-south road through Danville, 0.4 miles south of depot. Opposite Danville Consolidated School, 252.5 feet east of northeast corner of school building, 165.4 feet north of centerline parapet wall of culvert, along east fence line of road. Standard disk, set in concrete post and stamped "S 125 1935". 711.268

SS-125 In Des Moines County, at Danville, along the north-south road through Danville. At cross road, 0.7 mile south of depot. Set in post, 23.8 feet east of southeast corner of building of F. Horman residence. At northeast corner of cross roads, 1.8 feet east of concrete sidewalk. Standard disk stamped "SS 125 1935". 719.661

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 218. 725.0

T-125 In Des Moines County, near Danville, about 1.4 miles southeast of the depot, along the Chicago, Bur-

lington and Quincy Railroad at Highway #34 culvert, 5½ poles northwest of milepole #217. Set in center of the northeast headwall, about 100 feet southwest of tracks. Standard disk stamped "T 125 1935". El. Ft. 727.915

U-125 In Des Moines County, at Middletown, along the Chicago, Burlington and Quincy Railroad at road crossing, about 250 feet west of depot. Set in post, 50 feet east of centerline of road, 30 feet north of centerline of the north tracks and 3 feet south of pole. About 1 foot below level of the tracks. Standard disk stamped "U 125 1935". 726.806

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 216. 732.2

Top of south rail opposite the depot at Middletown. 728.0

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 214. 732.5

UU-125 In Des Moines County, near Middletown, 0.9 mile southeast of the depot, along Highway #34, about 1000 feet south of the Chicago, Burlington and Quincy Railroad and about halfway between two road junctions. Set in post, adjoining property of W. Gueldenharr. On north side of highway, 1.4 feet south of fence line and 22.6 feet from north edge of pavement. Standard disk stamped "UU 125 1935". 727.518

V-125 In Des Moines County, near Middletown, about 2.5 miles southeast of the depot, along Highway #34 at cross road, about 500 feet south of the Chicago, Burlington and Quincy Railroad tracks. Set in post, 85 feet east of centerline of side road, 22.5 feet south of south edge of pavement and 1.5 feet north of fence line. Standard disk stamped "V 125 1935". 713.450

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 213. 722.1

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 212. 705.9

W-125 In Des Moines County, near West Burlington, about 1.1 miles west of the depot, along the Chicago, Burlington and Quincy Railroad at road crossing. Set in a post, 36 feet east of centerline of the road, 33 feet south of centerline of the south tracks, 4 feet northeast of fence corner and 18 inches north of fence line. Standard disk, set 2 feet above track level and stamped "W 125 1935". 707.253

	El. Ft.
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 211.	703.8
Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 210.	692.9

X-125 In Des Moines County, at West Burlington, along the Chicago, Burlington and Quincy Railroad. Set in post, 200 feet south of the west end of depot, 2 poles west of road crossing and 3 feet north of pole. Standard disk stamped "X 125 1935". 691.373

Top of north rail opposite the depot at West Burlington. 690.8

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 209. 652.2

XX-125 In Des Moines County, at Burlington, along Roosevelt Avenue, at the north entrance to Tri- State Fairgrounds. Set in post, flush with ground, 5.1 feet west of fence, 9.2 feet north of north side of ticket office. Standard disk stamped "XX 125 1935". 701.639

Y-125 In Des Moines County, at Burlington, along Roosevelt Avenue, 0.15 mile south of centerline of junction of Division Street. On east side of road on fence line, 18 inches north of fence post. Standard disk, set in concrete post and stamped "Y 125 1935". 691.350

YY-125 In Des Moines County, at Burlington, along Roosevelt Avenue, 0.1 mile north of junction of Roosevelt Avenue and Highway #16, Set in post, 30 feet east of centerline of road, 10 feet north of centerline of gateway and 3.2 feet west of fence line . Standard disk stamped "YY 125 1935". 699.821

Z-125 In Des Moines County, at Burlington, along Highway #61, opposite property of Municipal Airport. About 300 feet south of airport driveway, set in post, 27 feet east of centerline of highway, 15 feet south of centerline of gateway and two feet west of fence line. Standard disk stamped "Z 125 1935". 698.772

ZZ-125 In Des Moines County, at Burlington, along Highway #61, opposite point 150 feet north of the southeast corner of airport property. Set in post, 30 feet east of centerline of highway, five feet southwest of telephone pole and 3 feet west of fence line. Standard disk stamped "ZZ 125 1935". 689.805

A -126 , In Des Moines County, at Burlington, along South Main Street at Angular Street Crossing. Set in post on east side of street, 13.9 feet from face of cunb, 2.9 feet from corner of C & E warehouse. At southeast corner, flush with ground. Standard disk stamped " A 126 1935". El. Ft. 545.603

AA-126 In Des Moines County, at Burlington, along South Main Street at Hose Station #4. Set in post, on east side of street, 2.8 feet from face of curb, 14.6 feet from northwest corner of building and flush with ground. Standard disk stamped "AA 126 1935". 578.122

B O M In Henderson County, Illinois, near Burlington, Des Moines County, Iowa, about 1.1 miles south of depot at Burlington, in northwest corner of first step on north end of east abutment of Chicago, Burlington & Quincy Railroad bridge over the Mississippi River at Burlington. Chiseled as drawn:- "B O M". 542.187

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 204. 536.1

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 203. 534.0

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 202. 533.6

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 201. 533.9

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 199. 534.4

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 198. 535.3

Top of north rail opposite Chicago, Burlington, and Quincy Railroad MP 197. 553.9

For descriptions of additional bench marks in this vicinity, see page. 9.

LINE 5672. OLDS, IOWA, TO KEITHSBURG, ILL.

(Second-order leveling)

This line follows the Minneapolis and St. Louis Railroad from Olds, Iowa to Keithsburg, Illinois. The field work was done during February and March, 1935, by a party in charge of E. E. Stohsner.

For descriptions of additional bench marks in this vicinity, see page 34.

		Elevation Feet
B-126	In Henry County, near Olds, about 1.0 mile east of the depot, along the Minneapolis & St. Louis Railroad at road crossing at "Station One Mile" sign. Set in post 36 feet west of the centerline of the road, 18 feet south of the centerline of the tracks, seven feet northwest of fence corner, four feet below rail level. Standard disk stamped "B 126 1935".	714.415
	Top of south rail opposite the depot at Olds.	731.8
	Top of south rail opposite Minneapolis and St. Louis Railroad MP 366.	726.7
	Top of south rail opposite Minneapolis and St. Louis Railroad MP 367.	698.8
C-126	In Henry County, near Winfield, about 2.6 miles west of the depot, along the Minneapolis and St. Louis Railroad at road crossing. Set in concrete post 85 feet south of the centerline of the tracks, 33 feet east of the centerline of the road, 12 feet east of fence corner and two feet north of fence line, 1 foot below rail level. Standard disk stamped "C 126 1935".	728.801
	Top of south rail opposite Minneapolis and St. Louis Railroad MP 368.	715.6
	Top of south rail opposite Minneapolis and St. Louis Railroad MP 369.	699.5
D-126	In Henry County, at Winfield, along the Minneapolis and St. Louis Railroad at Highway #249 crossing about 100 feet east of the depot. Set in post 46feet south of the centerline of the main tracks, 39 feet west of the centerline of highway, 5 feet west of fence corner, 1 foot north of fence line, about 4 feet below rail level. Standard disk stamped "D 126 1935".	695.438

	El. Ft.
Top of south rail opposite Minneapolis and St. Louis Railroad MP 370.	723.1
Top of north rail opposite the depot at Winfield.	698.6
Top of rail at southeast corner of crossing of the Minneapolis and St. Louis Railroad and the Chicago, Burlington, and Quincy Railroad, 0.7 mile east of Winfield.	677.6

E-126 In Henry County, at Winfield, at the corner of Locust and Pine Streets. Set in post at the southeast corner, 24 feet east of the centerline of Locust Street, 24 feet south of the centerline of Pine Street, between the sidewalk and the curb. Standard disk stamped "E 126 1935". 727.879

F-126 In Henry County, near Winfield, about 1.7 miles east of the depot, along the Minneapolis and St. Louis Railroad at road crossing about 300 feet west of "Station One Mile" sign. Set in post 33 feet west of the centerline of the road, 21 feet north of the centerline of the tracks and 9 feet west of fence corner, 2 feet south of fence line and about 3 feet below rail level. Standard disk stamped "F 126 1935". 691.275

Top of south rail opposite Minneapolis and St. Louis Railroad MP 373.	700.3

G-126 In Henry County, near Marsh, Louisa County, about 1.0 mile west of the depot, along the Minneapolis and St. Louis Railroad at road crossing, 5 poles west of milepost #375. Set in post at fence corner, 24 feet west of the centerline of the road, 22 feet north of the centerline of the tracks, 4 feet below rail level. Standard disk stamped "G 126 1935". 728.480 .

Top of south rail opposite Minneapolis and St. Louis Railroad MP 374.	727.5
Top of south rail opposite Minneapolis and St. Louis Railroad MP 375.	735.5

USC & GS & State BM-58-25

H-126 In Louisa County, at Marsh, along the Minneapolis and St. Louis Railroad at road crossing about 0.5 mile northwest of the depot. Set in post 33.5 feet north of the centerline of the crossing, 24 feet northwest of corner fence post, 21 feet northeast of the centerline of the tracks, 0.5

feet northeast of fence line, flush with ground. Bronze tablet, set in concrete post and stamped "58-25 H 126 1935". El. Ft. 736.130

Top of north rail opposite the depot at Marsh. 738.5

J-126 In Louisa County, near Marsh, about 2.1 miles east of the depot, along the Minneapolis and St. Louis Railroad at Highway #78 crossing. Set in post 4 poles northwest of milepost #378, 45 feet north of the centerline of the highway, 18 feet south of the centerline of the tracks and five feet north of pole. Standard disk stamped "J 126 1935". 797.413

Top of south rail opposite Minneapolis and St. Louis Railroad MP 377. 748.9

USC & GS & State BM-58-29 In Louisa County, near Marsh, 2.9 miles east of the depot, along State Highway #78 about 0.85 mile east of the crossing of the Minneapolis and St. Louis Railroad. Set in post in ditch at toe of back slope, 20.6 feet north of Iowa State Highway Commission right-of-way marker at fence line, 191.8 feet east of the east edge of concrete walk in front of two story frame house, property of Clifton Hadley. Mark set about two feet below road level. Bronze tablet stamped "58-29". 807.475

USC & GS & State BM-58-30 In Louisa County, near Morning Sun, about 2.1 miles west of the Grade School, along State Highway #78 at junction of road to the south. Set in concrete post at toe of back slope, 37.7 feet west of fence corner on the north side of the highway, 203 feet west of line coincident with the west side of two-story frame house belonging to Rebecca Coulter. Flush with ground, about two feet below highway level. Bronze disk stamped "58-30". 814.762

USC & GS & State BM-58-31 In Louisa County, near Morning Sun, about 0.43 mile west of the Grade School, along State Highway #78 on the north side of the highway at crest of hill, 6 feet southeast of fence junction, 9.5 feet southeast of 20 inch elm tree standing on the southwest corner of small cultivated plot belonging to George Crossan. Set in concrete post between fence line and back slope, flush with the ground. Bronze disk stamped "58-31". 761.029

USC & GS & State
BM-58-32 In Louisa County, at Morning Sun, along State Highway #78. Set in post directly east of highway corner in yard of grade school, 132.2 feet northwest of the northwest corner of school building, 10.2 feet east of the east edge of concrete sidewalk, parallel with the highway, flush with the ground. Bronze disk stamped "58 32". El. Ft. 745.543

K-126 In Louisa County, at Morning Sun, along the Minneapolis and St. Louis Railroad at road crossing 200 feet west of the depot. Set in post 75 feet south of the centerline of the main tracks, 33 feet east of the centerline of the road and 9 feet east of fence corner, two feet north of fence line. Standard disk stamped "K 126 1935". 754.647

Top of north rail opposite depot at Morning Sun. 752.9

USC & GS & State BM-58-33
L-126 In Louisa County, near Morning Sun, about 1.3 miles east of the depot, along State Highway #78, 0.55 mile east of the crossing of the Chicago, Rock Island and Pacific Railroad. Set in post between the back slope and fence, 132.2 feet east of a line coincident with west side of a barn on the property of Wm. McElhimney, 23.9 feet west of four wire telephone pole #93, three feet south of the north right-of-way fence, flush with the ground. Bronze disk stamped "58 33 L 126 1935". 746.970

Top of south rail opposite Minneapolis and St. Louis Railroad MP 382. 745.8

USC & GS & State BM-58-34
LL-126 In Louisa County, near Morning Sun, about 1.8 miles east of the depot, along State Highway #78, 1.05 miles east of the Chicago, Rock Island & Pacific Railroad crossing. Set in post on the north side of the highway between the back slope and the fence, 93 feet east of four wire telephone pole #78, 70.2 feet west of pole #77, 3 feet south of north right-of-way fence, flush with the ground. Bronze disk stamped "58 34 LL 126 1935". 737.367

USC & GS & State BM-58-35
M-126 In Louisa County, near Newport, about 0.46 mile west of the junction of State Highway #78 and U. S. Highway #61. Along State Highway #78 on the north side of the highway, between back

slope and the fence, four feet southwest of four wire telephone pole #20, 66.2 feet north of white pine tree in yard surrounding a tenant house, 43 feet east of a line coincident with the east edge of concrete walk in front of two story frame house belonging to S. Baird, flush with ground. Bronze disk, set in concrete post and stamped "58 35 M 126 1935". El. Ft. 730.022

USC & GS & State-58-36

MM-126 In Louisa County, at Newport, along State Highway #78 at junction with U. S. Highway #61. Set in post at the northwest corner of the intersection, between the ditch and the fence, 39 feet west from the crossing on the centerline of Highway #61, 7.6 feet south of highway right-of-way marker, 1.6 feet south of telephone pole, flush with the ground. Bronze disk stamped "58 36 MM 126 1935". 725.028

Top of south rail opposite Minneapolis and St. Louis Railroad MP 386. 711.0

N-126 In Louisa County, near Newport, about 2.0 miles east of the junction of State Highway #78 and U.S. Highway #61, along the Minneapolis & St. Louis Railroad at road crossing about 100 feet west of bridge #90.2. Set in post 45 feet south of the centerline of the tracks, 28 feet east of the centerline of road, 13 feet east of fence corner and 2 feet north of fence line, about two feet below rail level. Standard disk stamped "N 126 1935". 637.138

Top of south rail opposite Minneapolis and St. Louis Railroad MP 387. 656.9

Top of south rail opposite Minneapolis and St. Louis Railroad MP 388. 603.8

USC & GS & State BM-58-39

Q-126 In Louisa County, near Newport, about 3.8 miles east of the junction of State Highway #78 and U. S. Highway #61, along an east-west road. Set in concrete post opposite junction of road to the north into Elrich Junction, 33 feet south of south fence line on small west slope, 636.5 feet south of the north edge of the south abutment of bridge south of Elrich Junction, 295 feet east of the centerline of road to the south. Flush with the ground. Bronze disk stamped "58 39 Q 126 1935". 558.834

USC & GS & State BM-58-40

P-126 In Louisa County, near Oak-

ville, about 3.5 miles west of the depot, along the Minneapolis & St. Louis Railroad near station. Set in concrete post 83 feet northwest of switch with signal light, 29.5 feet northeast of switch without light, 201 feet northwest of the northwest corner of one story frame building south of the tracks, property of O. P. Johnson, about 3 feet above rail level. Bronze disk stamped "58 40 P 126 1935". El. Ft. 560.324

USC & GS & State BM-58-41 In Louisa County, near Oakville, about 2.1 miles west of the depot, along the Minneapolis and St. Louis Railroad at private road crossing about 15 poles east of milepost #390. Set in post 59.7 feet south of the south rail, 14.2 feet south and 2 feet west of the intersection of fence to the south with right-of-way fence. Bronze disk stamped "58 41". 553.057

USC & GS & State BM-58-43
R-126 In Louisa County, near Oakville, about 1.0 mile west of the depot, along State Highway #99 at junction of road to the south, 0.5 mile north of railroad crossing. Set in concrete post 252.4 feet south of the south face of the southwest steel pier of Yellow Banks bridge over the Iowa River, 140.6 feet west of 33,000 voltage highline pole #388, 21 feet west of a line coincident with west side of the bridge. Bronze disk stamped "58 43 R 126 1935". 544.631

Top of south rail opposite Minneapolis and St. Louis Railroad MP 390. 553.4

Top of south rail opposite Minneapolis and St. Louis Railroad MP 391. 554.7

S-126 In Louisa County, at Oakville, along the Minneapolis and St. Louis Railroad at Highway #99 crossing, 50 feet east of the depot. Set in post opposite switch, 17 feet north of the center of the tracks and 30 feet west of the centerline of the highway, 7 feet south of power line pole. Standard disk stamped "S 126 1935". 543.076

Top of south rail opposite the depot at Oakville. 543.5

U-126 In Louisa County, near Oakville, about 1.0 mile east of the depot, along the Minneapolis and St. Louis Railroad at road crossing one pole east of milepost #394. Set in post 42 feet east of the centerline of the road, 14 feet north of the centerline of the

tracks and 3 feet west of telephone pole, about 6 feet below rail level. Standard disk stamped "U 126 1935". El. Ft. 539.622

Top of south rail opposite Minneapolis and St. Louis Railroad MP 395. 539.6

V-126 In Louisa County, near Oakville, about 3.1 miles east of the depot, along the Minneapolis and St. Louis Railroad at road crossing, 3 poles east of milepost #396. Set in post 54 feet north of the centerline of the tracks, 28 feet east of the centerline of the road, 2 feet north of fence corner, 8 feet below rail level. Standard disk stamped "V 126 1935". 530.970

Top of south rail opposite Minneapolis and St. Louis Railroad MP 397. 549.3

H-57 In Mercer County, Illinois, at Keithsburg, at the crossing of State Highway #83 about 300 feet east of the Chicago, Burlington & Quincy Railroad depot. Set in the center of the east headwall of highway culvert, 25 feet south of the centerline of the tracks and 26 feet east of the centerline of the highway. Standard disk stamped "H 57 1935". 536.889

Top of south rail opposite Minneapolis and St. Louis Railroad MP 398. 554.2

Top of rail at southwest corner of crossing of the Minneapolis and St. Louis Railroad and the Chicago, Burlington, and Quincy Railroad 0.5 mile east of Keithsburg. 544.9

For descriptions of additional bench marks in this vicinity, see page.8.

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