

SECTION CORNER RECORD

SW 000-300

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (2011):

North: 1745549.76 East: 3108954.57 (U.S. survey feet)

North: 1745549.47 East: 3108878.67 (U.S. survey feet)

Type and depth of monument

Corner 1: Harrison 4" disk 'Section Corner', flush with adjacent ground

Corner 2: 5/8" rebar with metal cap 'Boone County Surveyor' 14 inches deep

Indiana tie card references:

IN02_T19NR1W33_80 IN02_T19NR1W34_72

IN02_T18NR1W04_08 IN02_T18NR1W03_00

CORNER WITNESS DETAIL

SCALE 1" = 50'

A - Boone County witness mark, flush,
93.0' to Corner 1, 118.4' to Corner 2

B - Mag nail set in W. side power pole, 1' a.g.,
13.1' to Corner 1, 89.0' to Corner 2

C - East edge plastic underground cable marker, flush,
13.0' to Corner 1, 62.9' to Corner 2

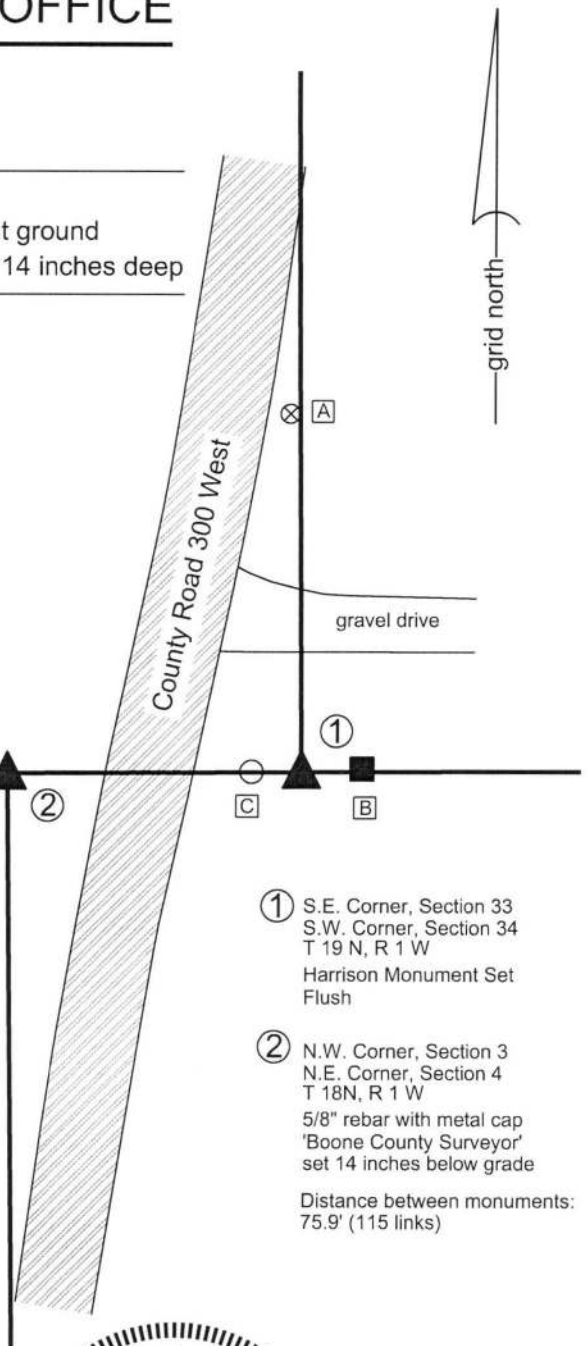
Boone County witness mark is a 3/8" diameter x 2' long rebar bearing a metal cap stamped "Boone County Witness Point."

The Harrison monument at Corner 1 was set over a vertical section of railroad rail found. This corner was monumented in 2016 and shown on a record of March 23, 2017. The position of Corner 2 was established at 115 links (75.9 feet) from Corner 1 along a line between the southeast and southwest corners of section 33. (See BCS Corner NW 000-400 as well as NW 000-350).

A BCS record of March 17, 1894 states, with respect to Corner 1, "Reestablished. Set Rock + 14.14.5 + at corner. Set Rock + 3.9.7 underneath. Brick bat + underneath. Old ax under all. All packed with brick bats, small rocks, an old ax and pieces of iron & crockery." No specific descriptions of Corner 2 were found in the entries of the BCS Surveyor's Record. A BCS tie card dated September 30 and October 4, 1971 shows Corner 1 as "Stone Found - 9/30/71- RRR Put in" and shows Corner 2 as "No Stone - RRR put in - 10/4/71." This tie card shows the corners 66.7 feet apart, 9.2 feet less than the original record offset. Another tie card, dated June 27, 1994, shows Corner 1 as a railroad rail found.

The railroad rail at Corner 1 was found in 2016. The rail was accepted as marking the corner, presuming the stone found in 1971 was one of the monuments described in the 1894 record. The top of the rail was five inches below grade, as found. The rail was left in place with two 24" lengths of 3/8 inch diameter rebar driven at angles adjacent to the rail. The top 8 inches of the rail and the tops of both rebars were encased in concrete and a Harrison monument was set over the top, center of the rail. A survey by Jerry L. Carter, IN LS #S0350 recorded as Instrument 0107644 in the Office of the Boone County Recorder shows Corner 2 at 75.9 feet west of Corner 1, in agreement with the original federal notes which state that Corner 2 is 115 links west of Corner 1. The descriptions of the adjoining land match the survey (see I200900008570). This position falls in a tilled field but fits well with the center of County Road 300 West to the south. A 2 foot length of 5/8 inch rebar was found bent and severely disturbed in the immediate vicinity of Corner 2. The railroad rail (RRR) called in the 1971 tie card was not found at Corner 2 and is believed to have not been present since at least 1989. It is not known why the 1971 tie card established the corners at 66.7 feet apart. No evidence was found to support this position nor were any surveys or deeds found which explicitly hold the position. The federal dimension of 115 links was held, in agreement with the Carter survey and adjoining descriptions. The bent rebar was removed and replaced with a 30 inch length of 5/8 inch diameter rebar with metal cap stamped 'Boone County Surveyor' set at 14 inches below the top of the tilled field on May 31, 2019.

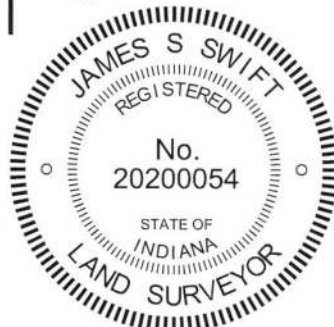
Corner 1 was originally established as a wood post in 1819. Corner 2 was originally established as a wood post in 1820.



① S.E. Corner, Section 33
S.W. Corner, Section 34
T 19 N, R 1 W
Harrison Monument Set
Flush

② N.W. Corner, Section 3
N.E. Corner, Section 4
T 18 N, R 1 W
5/8" rebar with metal cap
'Boone County Surveyor'
set 14 inches below grade

Distance between monuments:
75.9' (115 links)



Center Township

Section 33 T19N, R1W	Section 34 T19N, R1W
Section 4 T18N, R1W	Section 3 T18N, R1W

Kenneth E. Hedge
Kenneth E. Hedge, County Surveyor
June 19, 2019

James S. Swift
James S. Swift, IN LS 20200054

SECTION CORNER RECORD

SW 000-350

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (2011):

Corner 1: North: 1745539.62 East: 3106305.36 (U.S. survey feet)

Corner 2: North: 1745539.36 East: 3106238.04 (U.S. survey feet)

Type of monuments: Harrison, 4" disk 'Section Corner'

Depth: Flush with adjacent ground

Indiana tie card references:

IN02_T19NR1W33_76 IN02_T18NR1W04_04

CORNER WITNESS DETAIL

SCALE 1" = 100'

① South Quarter Corner
Section 33, T 19 N, R 1 W

② North Quarter Corner
Section 4, T 18 N, R 1 W

Distance between monuments:
102 links (67.32')

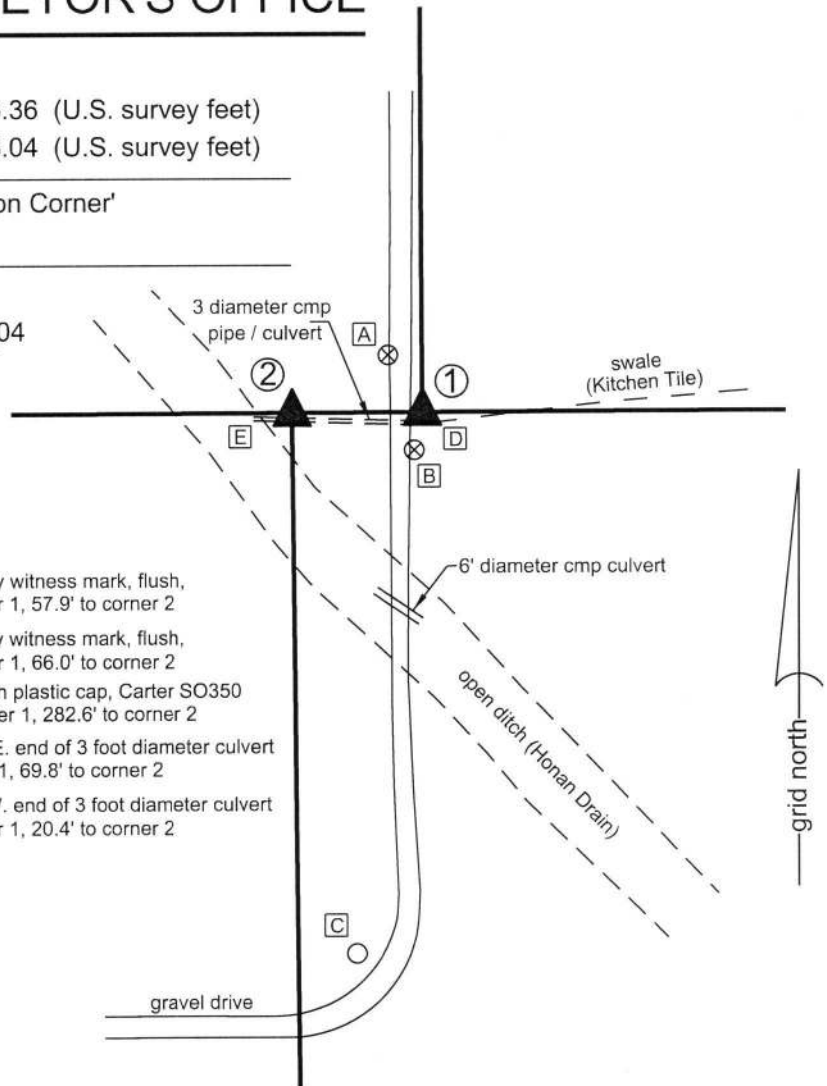
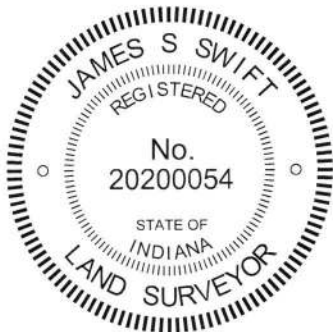
A - Boone County witness mark, flush,
34.5' to corner 1, 57.9' to corner 2

B - Boone County witness mark, flush,
15.4' to corner 1, 66.0' to corner 2

C - 5/8" rebar with plastic cap, Carter S0350
283.0' to corner 1, 282.6' to corner 2

D - Top, center, E. end of 3 foot diameter culvert
6.2' to corner 1, 69.8' to corner 2

E - Top, center W. end of 3 foot diameter culvert
87.6' to corner 1, 20.4' to corner 2



The Harrison monuments were both set at calculated positions.

Corner 1 is an original corner of the public land survey system, set in 1819. No specific descriptions of Corner 1 were found beyond the original establishment of the corner as a wood post in 1819. The corner is shown as a terminal point for measurements in a BCS record of April 7 & 17, 1884. Corner 2 is not an original corner of the PLSS, but is described in a BCS record of November 9, 1873 which states "Point 102 links W. of cor. for Sec. 33." It is noted that 102 links represents the average of the closing offset distances reported in the original federal notes for the northeast and northwest corners of section 4.

Both corners are shown on surveys by Jerry L. Carter, IN LS # S0350, recorded in the Office of the Boone County Recorder as Instruments 01070644 and 200700004440, respectively. Although not specifically stated on the surveys, analysis of the dimensions and references to other corners shown on the two surveys demonstrates that the two surveys place Corner 1 at the midpoint of the lines connecting the southeast and southwest corners of section 33 and place Corner 2 at 67.32 feet (102 links) west of Corner 1. Numerous monuments shown on the surveys were recovered and found to fit well with the relative dimensions shown on the surveys but no monuments were found marking the subject corners. Nor was ancient evidence found in the vicinity of the corners, due to the presence of a large metal culvert / pipe associated with the Kitchen Legal Tile. The theoretical positions as shown on the Carter surveys were held and Harrison monuments were set at these positions. Corner 1 is intended to be at the midpoint of the line connecting the southeast and southwest corners of section 33. Corner 2 is intended to be on the same line, 102 links (67.32 feet) westerly of Corner 1. Harrison monuments were set at both positions on May 31, 2019. It is observed that Corner 2 is not at the midpoint of the line connecting the northeast and northwest corners of Section 4, as the northwest corner of section 4 is further from the southwest corner of section 33 than the original reported distance of 89 links (see BCS corner SW 000-400). The computed dimension of 102 links (67.32 feet) was held for separation of the subject corners per the 1873 BCS record and the Carter surveys.

Kenneth E. Hedge, County Surveyor
June 19, 2019

James S. Swift, IN LS 20200054

Center
Township

Section 33
T19N, R1W

Section 4
T18N, R1W

SECTION CORNER RECORD

SW 000-400

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (2011):

Corner 1: North: 1745529.48 East: 3103656.14 (U.S. survey feet)

Corner 2: North: 1745529.62 East: 3103594.31 (U.S. survey feet)

Type of monument: Harrison, 4" disk 'Section Corner'

Depth: Flush with adjoining ground (both corners)

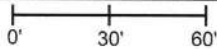
Indiana tie card references:

IN02_T19NR1W32_80 IN02_T19NR1W33_72

IN02_T18NR1W05_08 IN02_T18NR1W04_00

CORNER WITNESS DETAIL

SCALE 1" = 60'



- A - Boone County witness mark, flush, 54.5' to Corner 1, 52.5' to Corner 2
- B - Mag nail set in W. side power pole, 2' a.g., 78.1' to Corner 1, 16.3' to Corner 2
- C - Mag nail set in E. side wood post, 1' a.g., 57.4' to Corner 1, 45.3' to Corner 2

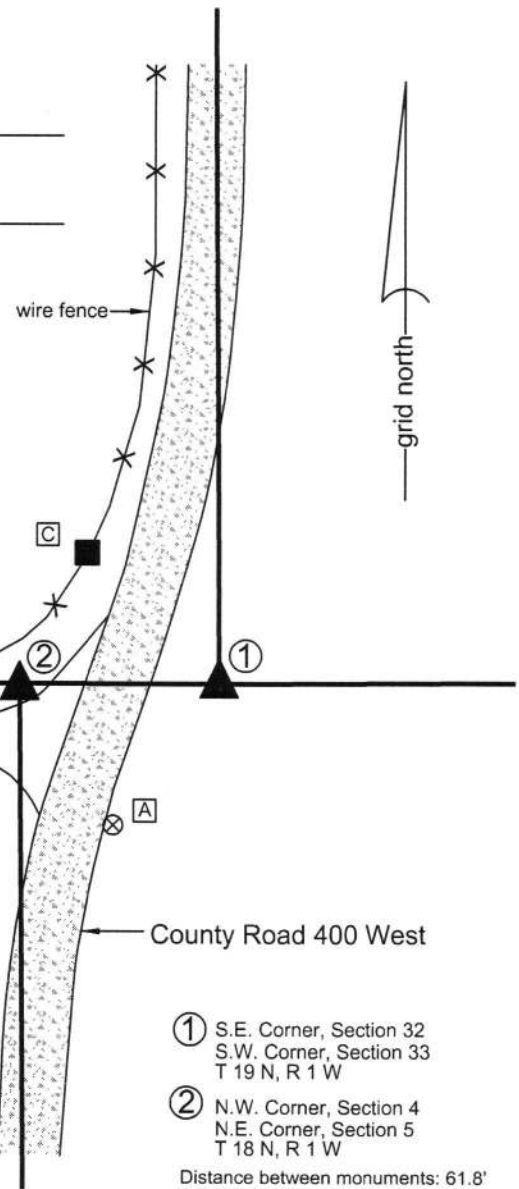
Boone County witness mark is a 3/8" diameter x 2' long rebar bearing a metal cap stamped "Boone County Witness Point."

The Harrison monument at Corner 1 was set over a vertical section of railroad rail found. The Harrison monument at Corner 2 was set adjacent to a vertical section of railroad rail found.

A BCS record dated April 7 & 17, 1884 states, with respect to Corner 1, "Reest'd Rock 16x12x6 +." A BCS record dated April 3, 1870 states, with respect to Corner 2, "Rock at Corner. Fnd from stump of Oak." A BCS tie card dated September 30 & October 4, 1971 shows Corner 1 as "Stone Found 9/30/71, RRR put in" and shows Corner 2 as "No stone, RRR put in 10/4/71." In Summer, 2016, vertical sections of railroad rail (RRR per the tie card) were found marking both corners. As Corner 1 is the dominant corner, being the standard corner, and as the documentation indicates that the stone was previously found and replaced with a railroad rail, the rail found at this corner was held as marking the corner. The top of the rail was 6 inches below grade, as found in 2016. The rail was left in place and on August 11, 2016 a Harrison monument was broken off at 4 inches, two rebars, 3/8 inch diameter by 24 inches long were driven at angles on the east and west sides of the rail. The top 7 inches of the rail were encased in concrete along with the tops of the 3/8 inch rebars and the shortened Harrison monument was set directly over the top, center of the rail.

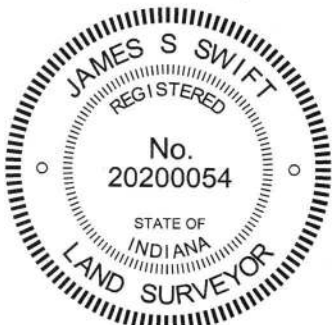
The rail at Corner 1 was found to be slightly north of the township line connecting Corner 1 with the standard corner approximately one-half mile to the west (see corner NW 000-450). The rail was also approximately 3 feet further from Corner 1 than the original closing distance specified in the federal survey notes. Extensive probing performed in the immediate vicinity of the corner yielded no further evidence of the corner. The position of the rail was held in the east-west dimension. The corner was established on the township line and on October 21, 2016 a Harrison monument was set at this position, 0.8 foot south of the rail, which was left in place and partially encased in concrete.

Corner 1 was originally established as a wood post in 1819. Corner 2 was originally established as a wood post in 1820.



- ① S.E. Corner, Section 32
S.W. Corner, Section 33
T 19 N, R 1 W
- ② N.W. Corner, Section 4
N.E. Corner, Section 5
T 18 N, R 1 W

Distance between monuments: 61.8'
Original closing dist: 89 links (58.7')



Kenneth E. Hedge
Kenneth E. Hedge, County Surveyor

James S. Swift
James S. Swift, IN LS 20200054
March 23, 2017

Marion Township

Section 32 T19N, R1W	Section 33 T19N, R1W
Section 5 T18N, R1W	Section 4 T18N, R1W

SECTION CORNER RECORD

SW 050-300

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (2011):

North: 1742811.29 East: 3108903.25 (U.S. survey feet)

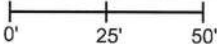
Type of monument: Harrison, 4" disk 'Section Corner'

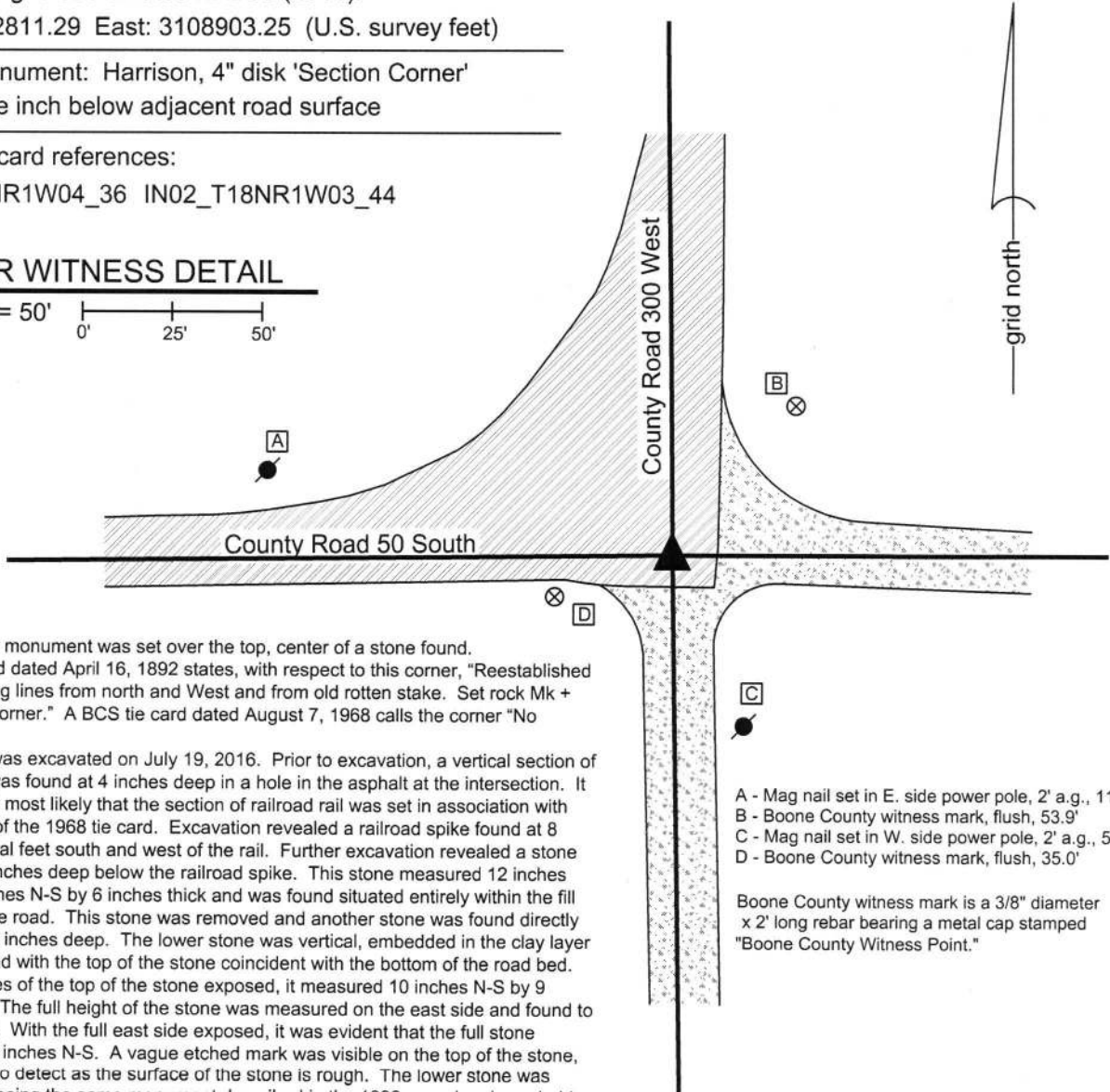
Depth: One inch below adjacent road surface

Indiana tie card references:

IN02_T18NR1W04_36 IN02_T18NR1W03_44

CORNER WITNESS DETAIL

SCALE 1" = 50' 



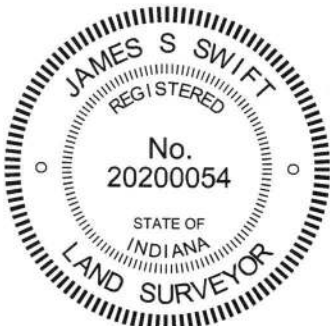
The Harrison monument was set over the top, center of a stone found. A BCS record dated April 16, 1892 states, with respect to this corner, "Reestablished by intersecting lines from north and West and from old rotten stake. Set rock Mk + 20.10.10 at corner." A BCS tie card dated August 7, 1968 calls the corner "No Stone."

This corner was excavated on July 19, 2016. Prior to excavation, a vertical section of railroad rail was found at 4 inches deep in a hole in the asphalt at the intersection. It is considered most likely that the section of railroad rail was set in association with the creation of the 1968 tie card. Excavation revealed a railroad spike found at 8 inches, several feet south and west of the rail. Further excavation revealed a stone found at 14 inches deep below the railroad spike. This stone measured 12 inches E-W by 8 inches N-S by 6 inches thick and was found situated entirely within the fill material of the road. This stone was removed and another stone was found directly below it at 20 inches deep. The lower stone was vertical, embedded in the clay layer below the road with the top of the stone coincident with the bottom of the road bed. With 12 inches of the top of the stone exposed, it measured 10 inches N-S by 9 inches E-W. The full height of the stone was measured on the east side and found to be 20 inches. With the full east side exposed, it was evident that the full stone measured 10 inches N-S. A vague etched mark was visible on the top of the stone, though hard to detect as the surface of the stone is rough. The lower stone was accepted as being the same monument described in the 1892 record and was held as marking the corner. The stone was left in place and a Harrison monument was set over the top, center of the stone. The railroad spike and upper stone were both removed during excavation. The railroad rail, also removed during excavation, had been 2.8 feet east and 1.5 feet north of the record stone.


This corner was originally established as a wood post in 1820.

- A - Mag nail set in E. side power pole, 2' a.g., 114.3'
- B - Boone County witness mark, flush, 53.9'
- C - Mag nail set in W. side power pole, 2' a.g., 50.2'
- D - Boone County witness mark, flush, 35.0'

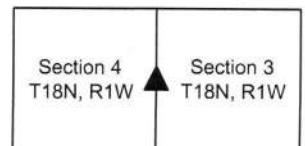
Boone County witness mark is a 3/8" diameter x 2' long rebar bearing a metal cap stamped "Boone County Witness Point."




Kenneth E. Hedge, County Surveyor


James S. Swift, IN LS 20200054
March 23, 2017

Center Township



PHOTOGRAPHIC DOCUMENTATION

Date of photography: July 19, 2016

The upper stone as it was originally exposed.



View showing the railroad spike (top), upper stone (middle), and lower stone (bottom)



View from the west looking across the lower stone and west along County Road 50 South.



The lower stone from above.



For details and documentation, refer to related sheet "Section Corner Record."

SECTION CORNER RECORD

SW 050-400

BOONE COUNTY SURVEYOR'S OFFICE

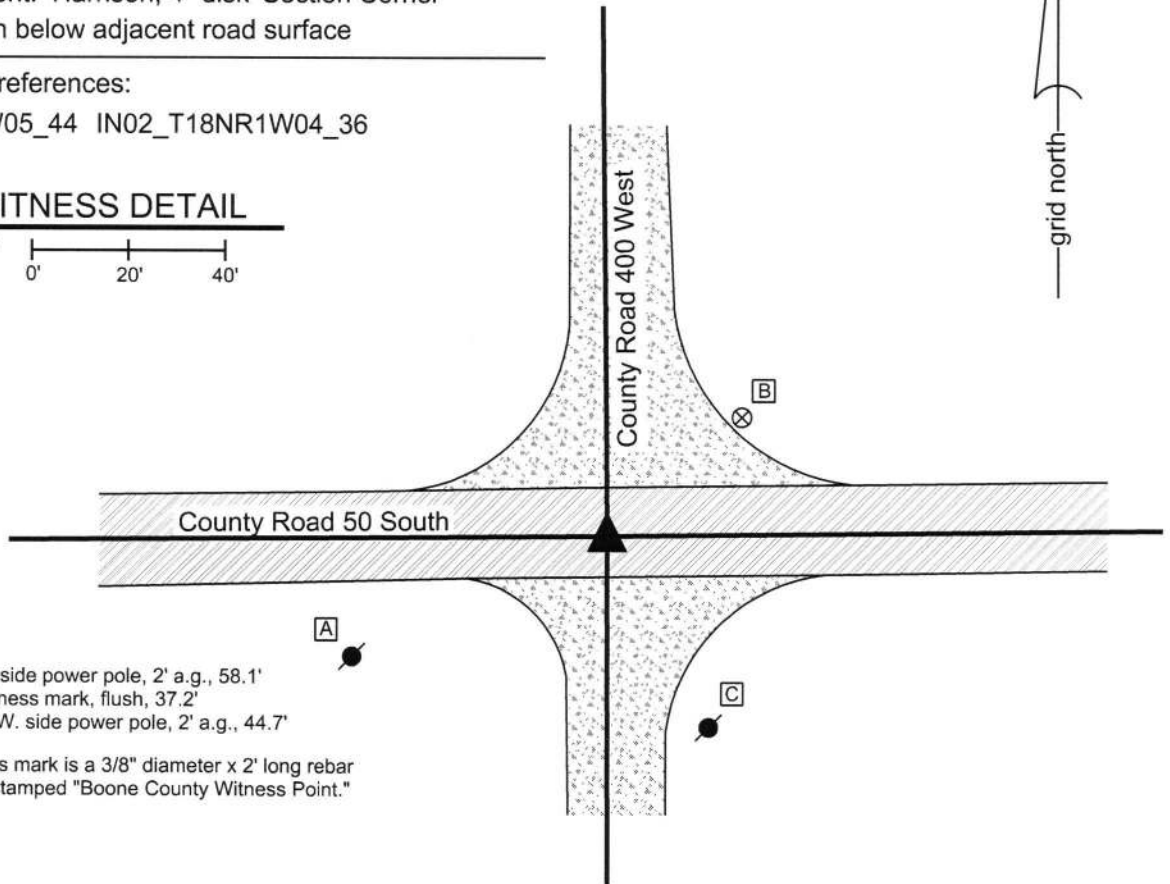
State Plane grid coordinates NAD83 (2011):
North: 1742751.92 East: 3103620.90 (U.S. survey feet)

Type of monument: Harrison, 4" disk 'Section Corner'
Depth: One inch below adjacent road surface

Indiana tie card references:
IN02_T18NR1W05_44 IN02_T18NR1W04_36

CORNER WITNESS DETAIL

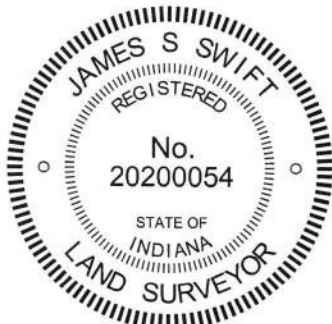
SCALE 1" = 40'



- A - Mag nail set in N. side power pole, 2' a.g., 58.1'
- B - Boone County witness mark, flush, 37.2'
- C - Mag nail set in N.W. side power pole, 2' a.g., 44.7'

Boone County witness mark is a 3/8" diameter x 2' long rebar bearing a metal cap stamped "Boone County Witness Point."

The Harrison monument was set over the etched mark on a stone found.
 A BCS record dated October 27, 1873 states, with respect to this corner, "Found from sight tree 8.20 North." A BCS record of July 30, 1900 states "Set 3 cornered rock, 11x9x9x3. Top rock, 14x14x14 +." A BCS tie card August 16, 1968 calls the corner as "No stone."
 This corner was excavated on July 14, 2016. Prior to excavation, a vertical section of railroad rail was found at 8 inches deep in a hole in the asphalt at the approximate center of the intersection. It is believed most likely that the railroad rail was set in association with the 1968 tie card. Excavation revealed a stone found north and west of the rail. The stone had a distinct chiseled + mark on top. With the south edge of the stone exposed, it measured 14 inches tall by 14 inches E-W. The full N-S dimension was not measured, though the stone was confirmed to be at least 10 inches N-S at a point 6 inches down from the top and appeared that it would be yet larger further down on the rock. The stone was found to be surrounded by numerous small fragments of rock. The stone had a mounded top and the distinct "+" mark was near the west edge of the top of the stone. The stone appeared to be partially embedded in the clay layer below the road. Due to the presence of the numerous fragments of rock, the lower stone was not detected by probing. The found stone was accepted as being the upper rock called for in the 1900 record and was held as marking the corner. The stone was left in place and a Harrison monument was set over the etched mark near the west edge of the top of the stone. The railroad rail, removed during excavation, had been 2.2 feet east and 1.0 foot south of the mark on the stone.
 This corner was originally established as a wood post in 1820.



Kenneth E. Hedge
Kenneth E. Hedge, County Surveyor

James S. Swift
James S. Swift, IN LS 20200054
March 23, 2017

Jefferson Township	Center Township
Section 5 T18N, R1W	Section 4 T18N, R1W

PHOTOGRAPHIC DOCUMENTATION

Date of photography: July 14, 2017

The excavation area as the stone was being exposed. The stone is in the upper right corner of the excavation area on this picture.



The stone partially exposed.



The stone more fully exposed, view showing the exposed south and east sides.



View from the south looking across the stone and north along County Road 400 West.



View from above showing the etched mark on the top of the stone.



For details and documentation, refer to related sheet "Section Corner Record."

SECTION CORNER RECORD

BOONE COUNTY SURVEYOR'S OFFICE

SW 100-400

State Plane grid coordinates NAD83 (2011):
 North: 1740115.72 East: 3103630.46 (U.S. survey feet)

Type of monument: Harrison, 4" disk 'Section Corner'
 Depth: Six inches below adjacent road surface

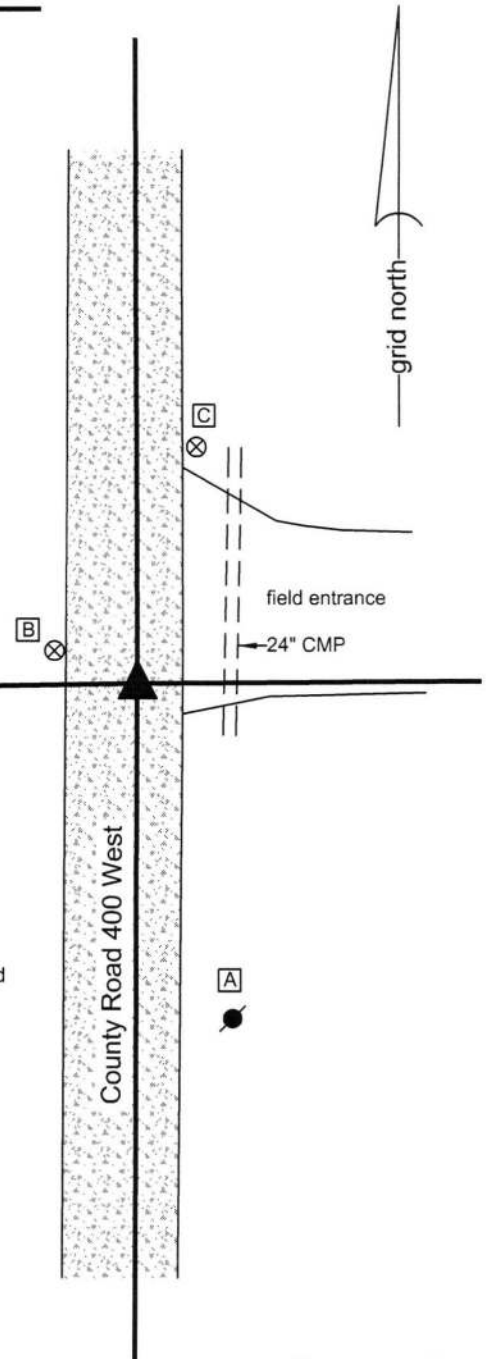
Indiana tie card references:
 IN02_T18NR1W05_80 IN02_T18NR1W04_72
 IN02_T18NR1W08_08 IN02_T18NR1W09_00

CORNER WITNESS DETAIL

SCALE 1" = 30'

- A - Boone County witness mark, flush, 13.8'
- B - Boone County witness mark, flush, 38.0'
- C - Nail in bottle cap found, SW side power pole, 2' a.g., 53.8'

Boone County witness mark is a 3/8" diameter x 2' long rebar bearing a metal cap stamped "Boone County Witness Point."



The Harrison monument was set in place of a vertical section of railroad rail found. A BCS record dated January 30, 1864 states, with respect to this corner, "Reest from Elm bearing tree Rock + on side and mark on top." A BCS tie card dated June, 1970 states "no stone."
 This corner was excavated on April 12, 2016. Prior to excavation a vertical section of railroad was found at 3 inches deep in the gravel road. Excavation of an area extending 3.5 feet north, 4 feet east, 6 feet south and 6 feet west of the rail revealed no further evidence of the corner. The road bed in this vicinity is only approximately eight inches thick. Excavation was performed to at least twelve inches deep, well into the clay layer below the road bed. Though not specifically stated in the record, it is believed that the railroad rail was most likely set in association with the creation of the 1970 tie card. The rail fit with local evidence in the form of the north-south roadway and a tree line / field division to the east. The position of the rail also fit reasonably well with respect to the relative positions of proximate corners. The position of the rail was held as the corner. The rail was removed during excavation and replaced with a Harrison monument in the same position. This corner was originally established as a wood post in 1820.



Kenneth E. Hedge
 Kenneth E. Hedge, County Surveyor

James S. Swift
 James S. Swift, IN LS 20200054
 March 23, 2017

Jefferson Township	Center Township
Section 5 T18N, R1W	Section 4 T18N, R1W
Section 8 T18N, R1W	Section 9 T18N, R1W