

# SECTION CORNER RECORD

## BOONE COUNTY SURVEYOR'S OFFICE

NE 800-900

State Plane grid coordinates NAD83 (CORS96):

North: 1789073.68 East: 3171911.56 (U.S. survey feet)

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

Depth: One inch below adjacent road surface

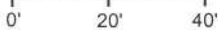
Indiana tie card references:

IN02\_T20NR2E21\_80 IN02\_T20NR2E22\_72

IN02\_T20NR2E28\_08 IN02\_T20NR2E27\_00

### CORNER WITNESS DETAIL

SCALE 1" = 40'



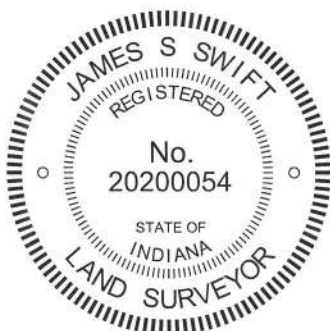
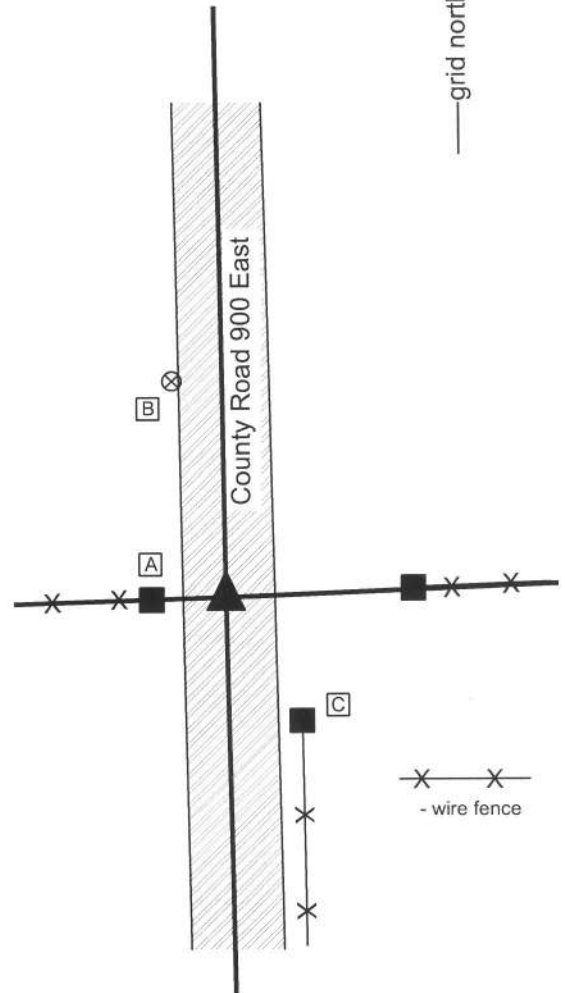
- A - Mag nail set in N. side, wood end post, 15.5'
- B - Boone County witness mark, flush, 46.2'
- C - Mag nail set in W. side wood end post, 2' a.g., 30.0'

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 a stone found.

A BCS record of February 17-18, 1869 states "Reestablished at intersection of lines 5.15 north of the stump of Elm sight tree called for. Set two rocks, one 7.5.4 marked +. Top rock 16.8.7 1/2 +." It is noted that the Elm sight tree is mentioned in the original federal notes as "A W Elm 14 in. diam." at 74.85 chains north along the line between sections 27 and 28. A tie card which appears to have been supplied by a private company, dated April 18, 1978 states "fnd. stone 0.7' deep, chiseled 'x'."

This corner was excavated on July 16, 2013. Prior to excavation a railroad spike was found at 3 inches deep in a hole in the asphalt. The railroad spike agreed with the remaining distance ties from the 1978 card. Excavation revealed a stone found at 9 inches deep, directly below the railroad spike. With the top 6 inches of the stone exposed, it measure 7 inches N-S by 8 inches E-W with a clearly chiseled + mark on the top and the high point, near the west edge of the top of the stone. The north and west sides of the stone were flat and vertical. The railroad spike had been approximately 1 inch east of the etched + mark but was clearly over the top of the stone. The stone was left in place and a harrison monument was set over it in the position of the railroad spike as originally found. This corner was originally established as a wood post in 1822.



*Kenneth E. Hedge*  
 Kenneth E. Hedge, County Surveyor

*James S. Swift*  
 James S. Swift, IN LS 20200054  
 February 5, 2015

Marion Township

Section 21 T20N, R2E	Section 22 T20N, R2E
Section 28 T20N, R2E	Section 27 T20N, R2E

PHOTOGRAPHIC DOCUMENTATION

Date of photography: July 16, 2013

View of the stone from above and north.



The stone washed, showing the etched + and the rust mark from the railroad spike.



View of the stone from above and east.



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

View from the south, looking across the stone and north along County Road 900 East.



# SECTION CORNER RECORD

NE 800-950

## BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (2011):

North: 1789168.96 East: 3174560.95 (U.S. survey feet)

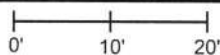
Type of monument: Harrison, 4" disk 'Section Corner'

Depth: One inch above the adjacent ground

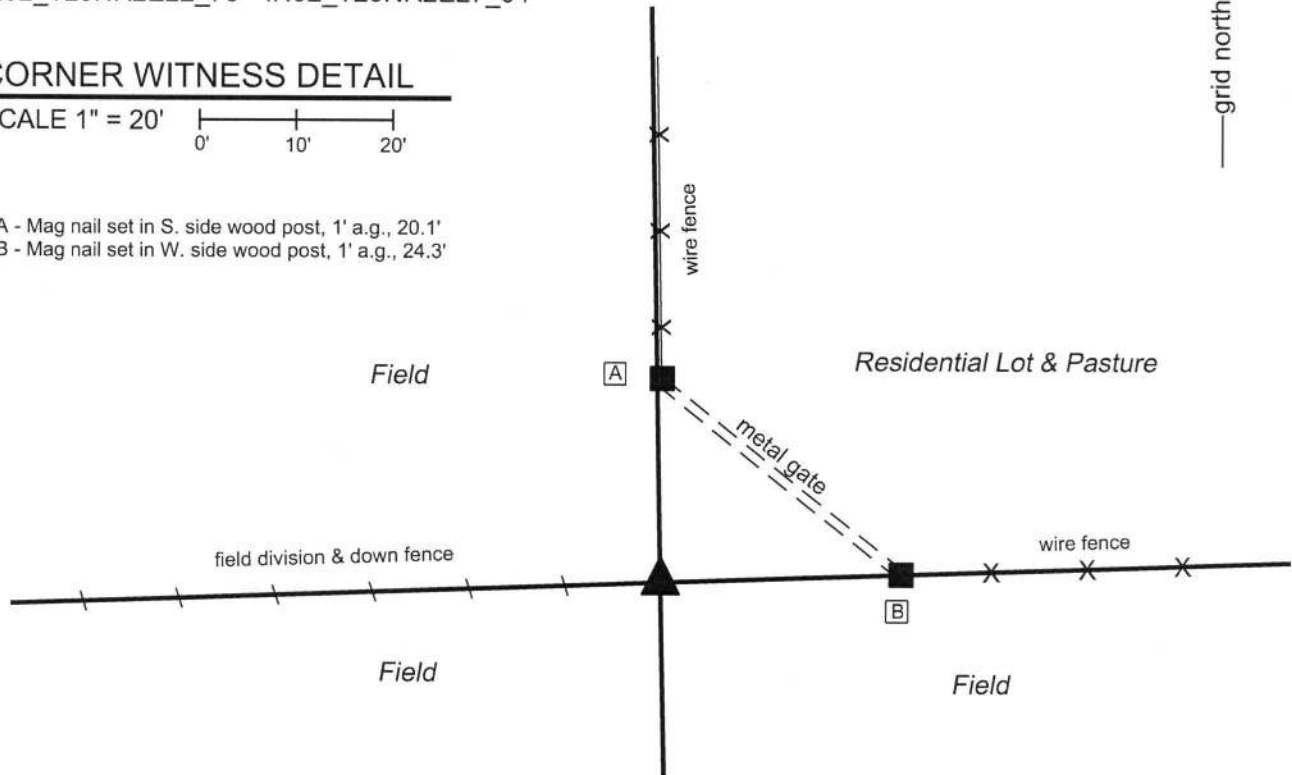
Indiana tie card references:

IN02\_T20NR2E22\_76 IN02\_T20NR2E27\_04

### CORNER WITNESS DETAIL

SCALE 1" = 20' 

- A - Mag nail set in S. side wood post, 1' a.g., 20.1'
- B - Mag nail set in W. side wood post, 1' a.g., 24.3'



The Harrison monument was set over a stone found.

A BCS record of February 18-19, 1869 states, with respect to this corner, "Reestablished from trees. Set two Rocks. One 9.5 1/2.5 in +. Top one 12.8 by 3 1/2 marked "1" on top." No recent BCS tie cards were found referencing this corner.


Excavation was performed at this corner on March 15, 2018. Prior to excavation, no specific survey monuments were known to exist, though a pile of rocks was clearly visible at the intersection of fences to the north, east and west. It is noted that the fences to the north and east do not extend to the corner, as shown on the diagram. The fence to the west is ancient, remaining in the form of fragments of fence on the ground.

Excavation in this vicinity revealed numerous rocks, as would be expected given the pile of rocks present prior to excavation. Fragments of an old wood post were found in the ground below the pile of rocks. Adjacent to these wood fragments, a substantial rock was found at 2 feet deep. The stone had a flat top and appeared to be vertical, but bore no specific, visible marks. The top of the stone measured 11 inches E-W by 8 inches N-S, matching two of the dimensions called in the 1869 record. However, the stone measured at least 7 inches tall on the south side. No stones positively matching the dimensions and markings of the two record stones were identified. The stone at 2 feet deep was situated immediately west of the fragments of post, in line with the fences to the east and west and slightly west of the fence to the north. The stone was held as the best available evidence of the corner. A Harrison monument was set over the top, center of the stone to mark the corner. Several rocks were set around the monument.

This corner was originally established as a wood post in 1821.



  
 Kenneth E. Hedge, County Surveyor

  
 James S. Swift, IN LS 20200054  
 April 11, 2018

Marion Township

Section 22  
T20N, R2E



Section 27  
T20N, R2E

# SECTION CORNER RECORD

## BOONE COUNTY SURVEYOR'S OFFICE

NE 800-1000

State Plane grid coordinates NAD83 (CORS96):

North: 1789257.70 East: 3177223.13 (U.S. survey feet)

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

Depth: One inch below adjacent road surface

Indiana tie card references:

IN02\_T20NR2E22\_80 IN02\_T20NR2E23\_72

IN02\_T20NR2E27\_08 IN02\_T20NR2E26\_00

### CORNER WITNESS DETAIL

SCALE 1" = 40'

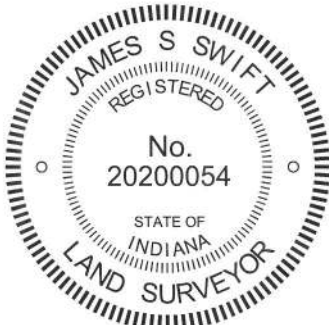
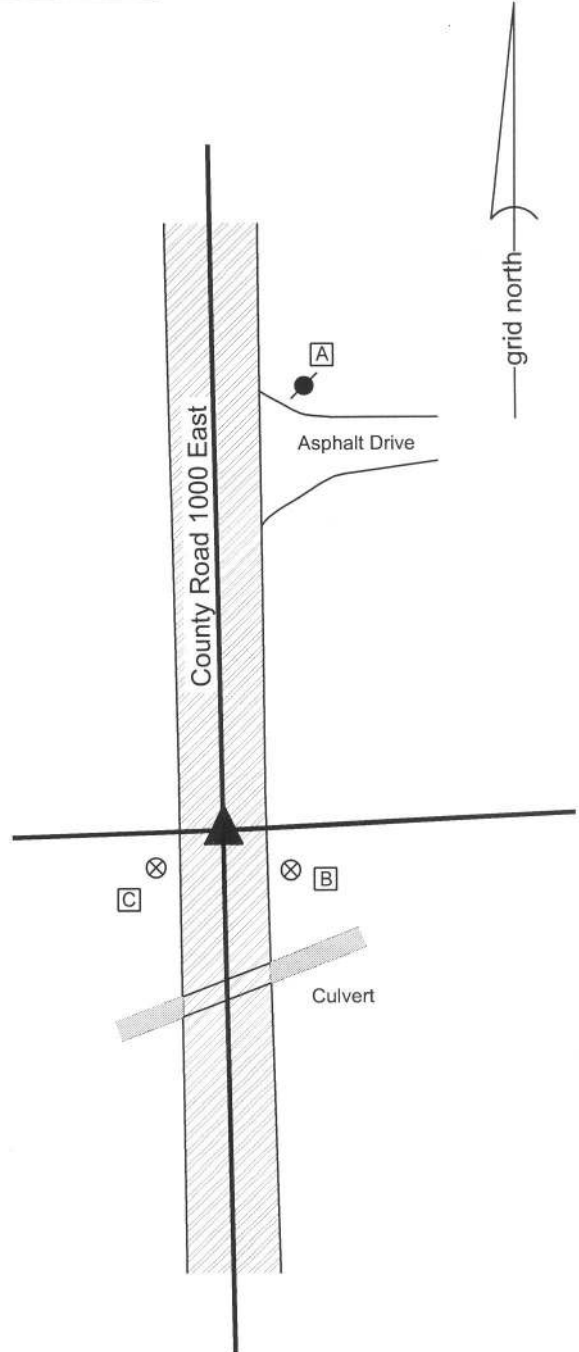
- A - Mag nail set in S.W. side power pole, 2' a.g., 92.7'
- B - Boone County witness mark, flush, 16.25'
- C - Boone County witness mark, flush, 15.9'

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 a stone found.

A BCS record of October 9-10, 1879 states "Reest. by running from D South 80.09 to 1/4 sec. corner between secs 26 & 27. Set two Rocks lower one 9.18.10 in + on top side. Upper one 21.4.10 in + on top." No recent BCS tie cards were found referencing this corner.

Excavation was performed at this corner on October 15, 2013. Prior to excavation, a 1/2 inch diameter rebar was found at 4 inches deep in a hole in the asphalt. Excavation revealed fragments of a wood stake found at 24 inches deep, south of the rebar. Further excavation revealed a stone found at 31 inches deep. The stone was fully embedded in the clay layer below the road bed. At most corners, the corner stones are found to be embedded in the clay layer with the top of the stone either at the top of the clay layer or protruding a few inches into the base of the road bed. At this corner the stone was approximately 1 foot deep in the clay layer. This is not typical but may be explained by the fact that the corner is immediately north of and adjacent to an open ditch. Early dredging of the ditch before the road bed was fully established could have resulted in substantial amounts of clay placed above the stone. It is notable that the clay layer begins at 18 inches from the surface of the road, which elevation is actually higher than the surrounding ground. The top 5 inches of the stone were exposed, at which point it measured approximately 9 inches N-S by 5 inches E-W. A distinct etched "+" mark was visible on the east side of the stone, 2 inches from the top. Probing indicated that another stone was situated directly below the exposed stone, at approximately 2 feet from the top of the top stone. With the etched mark and the dimensions approximating those described in the 1879 record, the stone was accepted as marking the corner. A harrison monument was set directly above the top, center of the stone, in line with the etched "+" mark on the east side. The rebar, removed during excavation, had been one foot north of the stone. This corner was originally established as a wood post in 1821.



*Kenneth E. Hedge*  
Kenneth E. Hedge, County Surveyor

*James S. Swift*  
James S. Swift, IN LS 20200054  
February 5, 2015

Marion Township

Section 22 T20N, R2E	Section 23 T20N, R2E
Section 27 T20N, R2E	Section 26 T20N, R2E

PHOTOGRAPHIC DOCUMENTATION

Date of photography: October 15, 2013

View of the stone from above and west.



Close up of the stone, showing the etched mark on the west side.



View of the stone from above and north.



View from above the stone, looking north along County Road 1000 East.



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

# SECTION CORNER RECORD

NE 850-900

## BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (CORS96):

North: 1791716.07 East: 3171862.52 (U.S. survey feet)

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

Depth: One inch below adjacent road surface

Indiana tie card references:

IN02\_T20NR2E21\_44 IN02\_T20NR2E22\_36

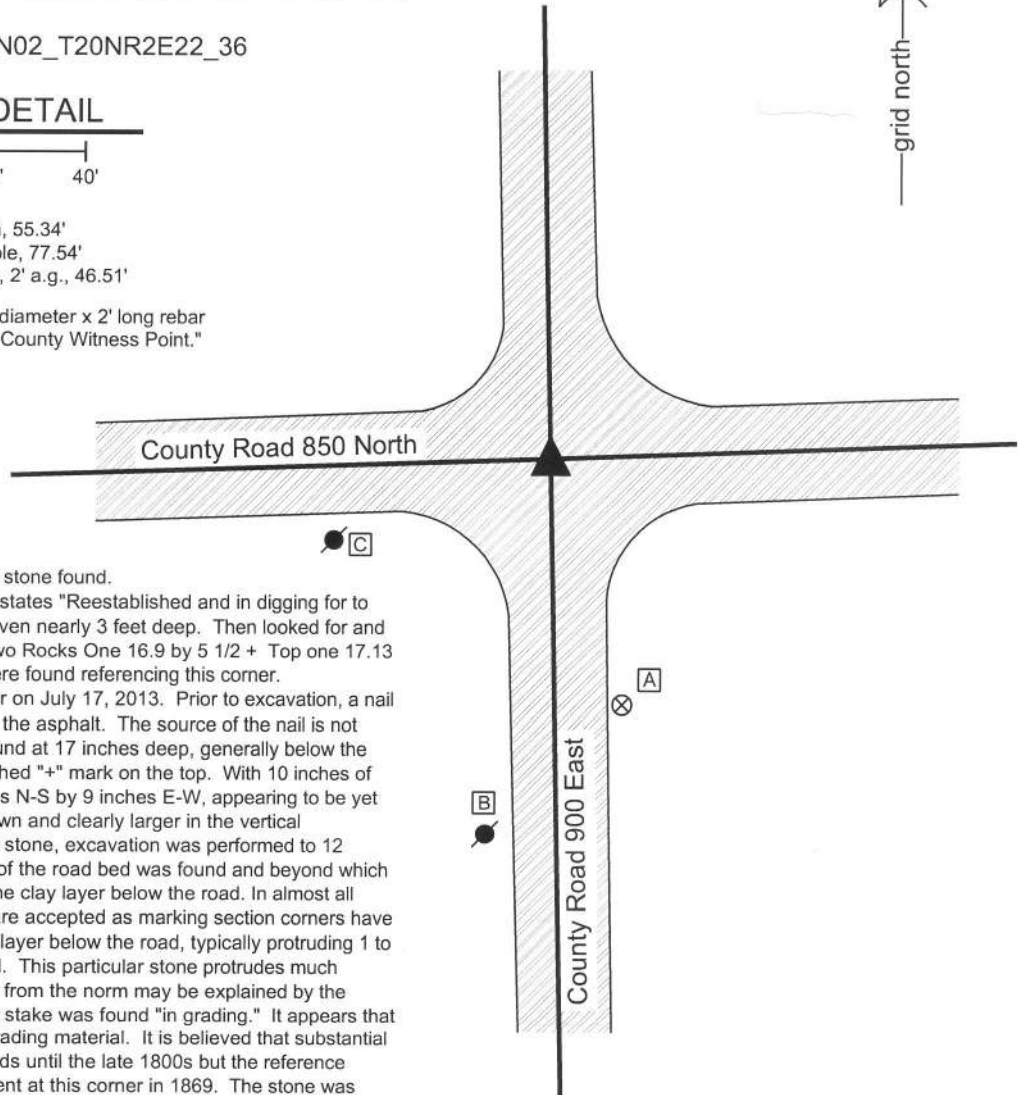


### CORNER WITNESS DETAIL

SCALE 1" = 40'

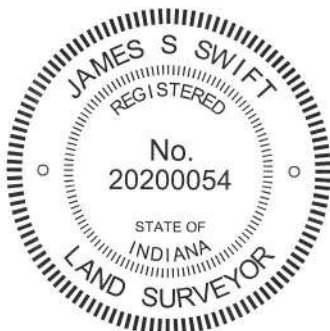
- A - Boone County witness mark, flush, 55.34'
- B - Mag nail set in N.E. side power pole, 77.54'
- C - Mag nail set in E. side power pole, 2' a.g., 46.51'

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 a stone found. A BCS record of February 17-18, 1869 states "Reestablished and in digging for to place rocks found a stake in grading driven nearly 3 feet deep. Then looked for and found where Elm stood by roots. Set two Rocks One 16.9 by 5 1/2 + Top one 17.13 by 9 in. +." No recent BCS tie cards were found referencing this corner. Excavation was performed at this corner on July 17, 2013. Prior to excavation, a nail was found at 5 inches deep in a hole in the asphalt. The source of the nail is not known. Excavation revealed a stone found at 17 inches deep, generally below the nail. The stone has a clearly visible etched "+" mark on the top. With 10 inches of the stone exposed, it measured 9 inches N-S by 9 inches E-W, appearing to be yet larger in the E-W dimensions further down and clearly larger in the vertical dimension. Along the north edge of the stone, excavation was performed to 12 inches deep, at which point the bottom of the road bed was found and beyond which the stone appears to be embedded in the clay layer below the road. In almost all cases, stones found in the road which are accepted as marking section corners have been found to be embedded in the clay layer below the road, typically protruding 1 to 3 inches into the bottom of the road bed. This particular stone protrudes much further into the road bed. This variation from the norm may be explained by the reference in the record that notes that a stake was found "in grading." It appears that the stone was also set partially in the grading material. It is believed that substantial grading was not common on county roads until the late 1800s but the reference makes clear that this material was present at this corner in 1869. The stone was accepted as being the top stone described in the 1869 record and was held as marking the corner. A Harrison monument was set directly above the etched "+" mark on the stone. The nail, removed during excavation, had been 0.3 foot further north.

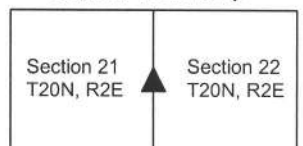
This corner was originally established as a wood post in 1821.



*Kenneth E. Hedge*  
Kenneth E. Hedge, County Surveyor

*James S. Swift*  
James S. Swift, IN LS 20200054  
February 5, 2015

Marion Township



PHOTOGRAPHIC DOCUMENTATION

Date of photography: July 17, 2013

View of the stone as first exposed.



View of the stone from above.



View from the north, looking across the stone and south along County Road 900 East.



View from the west, looking across the stone and east along County Road 850 North.



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

# SECTION CORNER RECORD

NE 850-1000

## BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (2011):

North: 1791902.28 East: 3177172.50 (U.S. survey feet)

Type of monument: Plug in monument box, INDOT Type B

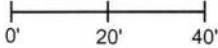
Depth: Flush with adjacent road surface

Indiana tie card references:

IN02\_T20NR2E22\_44 IN02\_T20NR2E23\_36

### CORNER WITNESS DETAIL

SCALE 1" = 40'



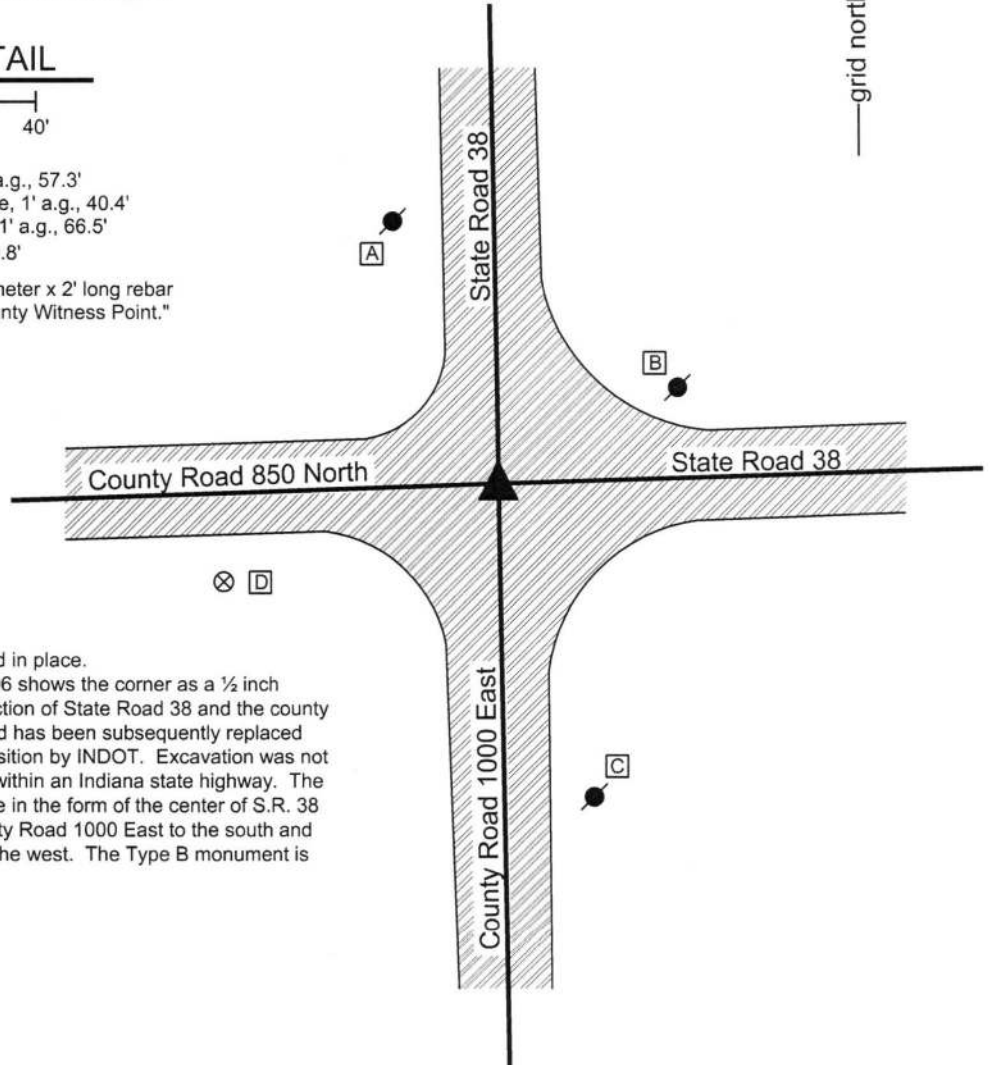
A - Mag nail set in S. side power pole, 2' a.g., 57.3'

B - Mag nail found in S.W. side power pole, 1' a.g., 40.4'

C - Mag nail found in N. side power pole, 1' a.g., 66.5'

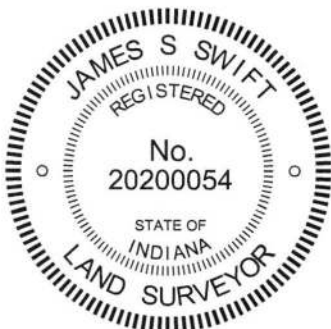
D - Boone County witness mark, flush, 60.8'

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




The INDOT Type B monument was found in place.

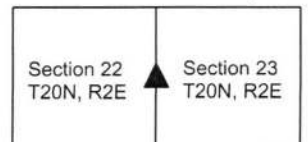
A BCS tie card dated September 18, 2006 shows the corner as a 1/2 inch diameter iron rod in center of the intersection of State Road 38 and the county roads to the south and west. The iron rod has been subsequently replaced with a Type B monument in the same position by INDOT. Excavation was not performed at this corner, as it is located within an Indiana state highway. The Type B monument fits with local evidence in the form of the center of S.R. 38 to the north and east, the center of County Road 1000 East to the south and the center of County Road 850 North to the west. The Type B monument is held as marking the corner.



  
Kenneth E. Hedge, County Surveyor

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

Marion Township





# SECTION CORNER RECORD

## BOONE COUNTY SURVEYOR'S OFFICE

NE 900-900

State Plane grid coordinates NAD83 (CORS96):

North: 1794361.35 East: 3171813.19 (U.S. survey feet)

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

Depth: One inch below adjacent road surface

Indiana tie card references:

IN02\_T20NR2E16\_80 IN02\_T20NR2E15\_72

IN02\_T20NR2E21\_08 IN02\_T20NR2E22\_00

### CORNER WITNESS DETAIL

SCALE 1" = 40'

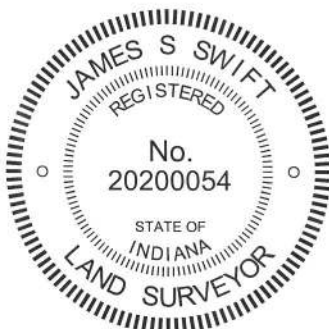
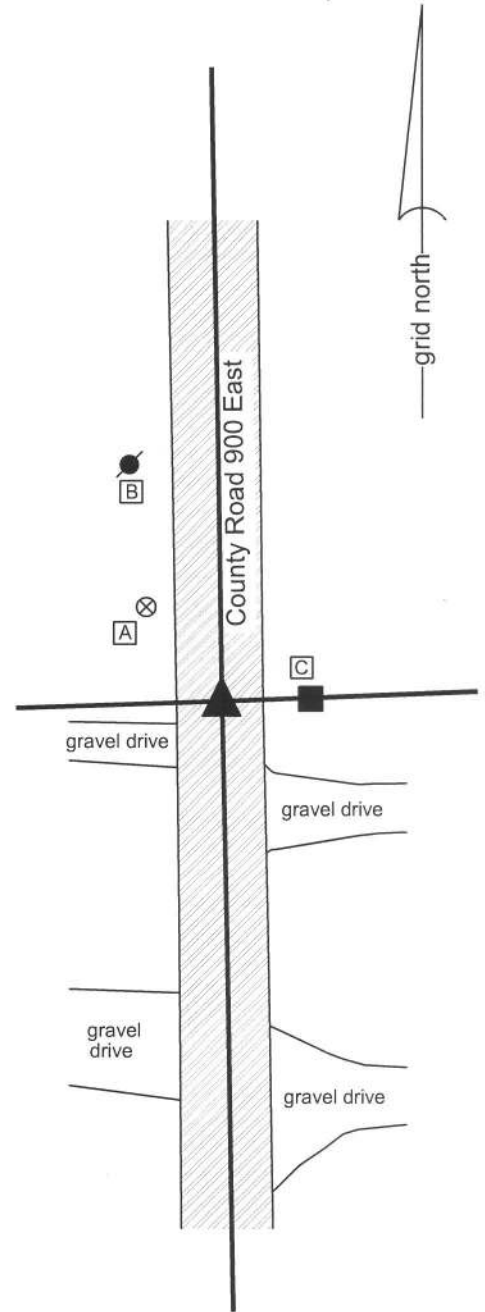
- A - Boone County witness mark, flush, 25.24'
- B - Mag nail set in S. side power pole, 2' a.g., 51.06'
- C - Mag nail set in N.W. corner wood post, 1.5' a.g., 16.29'

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 of February 17-18, 1869 states "Found from stump of Beech and stake. Reestablished set two rocks. One 9.8 by 6 in. marked +. Top rock 13.9.5 1/2 +." No recent BCS tie cards were found referencing this corner.

Excavation was performed at this corner on July 18, 2013. Prior to excavation, a railroad rail was found at 9 inches deep in a hole in the asphalt roadway. Excavation of an area approximately centered on the rail and extending 2.5 feet east, south and west and extending 3 feet north at the northwest corner of the hole and 1 foot north at the northeast corner of the hole (due to the presence of a phone line marked on the pavement) revealed no further evidence of the corner. The bottom of the road bed was found at 20 inches deep, which is substantially deeper than the grade of the surrounding land. No explanation is offered for this, as typically the depth of the road bed generally relates to the elevation of the surrounding ground. Excavation was performed to 30 inches deep, well into the clay layer below the road and probing was performed to another 2 feet deep in the immediate vicinity of the rail. The lack of documentation for the rail is problematic, as most rails set for corners in Boone County were set by representatives of this office. Some rails are believed to have been set by employees of Carl Anderson after he ceased being County Surveyor in 1972. It is known that a common practice of the crews which set the rails were to remove a stone, if found, and replace it with a rail. Without documentation it is not possible to know if a stone previously found and replaced with a rail, but that represents one possible explanation for why no stone was found. Another explanation relates to the deep road bed where previous experience would guide one to expect a shallow road bed, given the similar elevations of the road and the surrounding ground. Perhaps the stone was removed during excavation for the more substantial road bed, whenever and if, that may have happened. The rail fits with local evidence of the corner being in the center of the N-S roadway and in line with the old end post to the east. The rail was accepted as the best available evidence of the corner and replaced with a harrison monument in the same position.

This corner was originally established as a wood post in 1821.



*Kenneth E. Hedge*  
 Kenneth E. Hedge, County Surveyor

*James S. Swift*  
 James S. Swift, IN LS 20200054  
 February 5, 2015

Marion Township

Section 16 T20N, R2E	Section 15 T20N, R2E
Section 21 T20N, R2E	Section 22 T20N, R2E

An arrow points to the intersection of Section 21 and Section 22.

# SECTION CORNER RECORD

## BOONE COUNTY SURVEYOR'S OFFICE

NE 900-950

State Plane grid coordinates NAD83 (CORS96):

North: 1794457.22 East: 3174468.86 (U.S. survey feet)

Type of monument: Railroad Spike

Depth: flush with the adjacent road surface

Indiana tie card references:

IN02\_T20NR2E15\_76

IN02\_T20NR2E22\_04

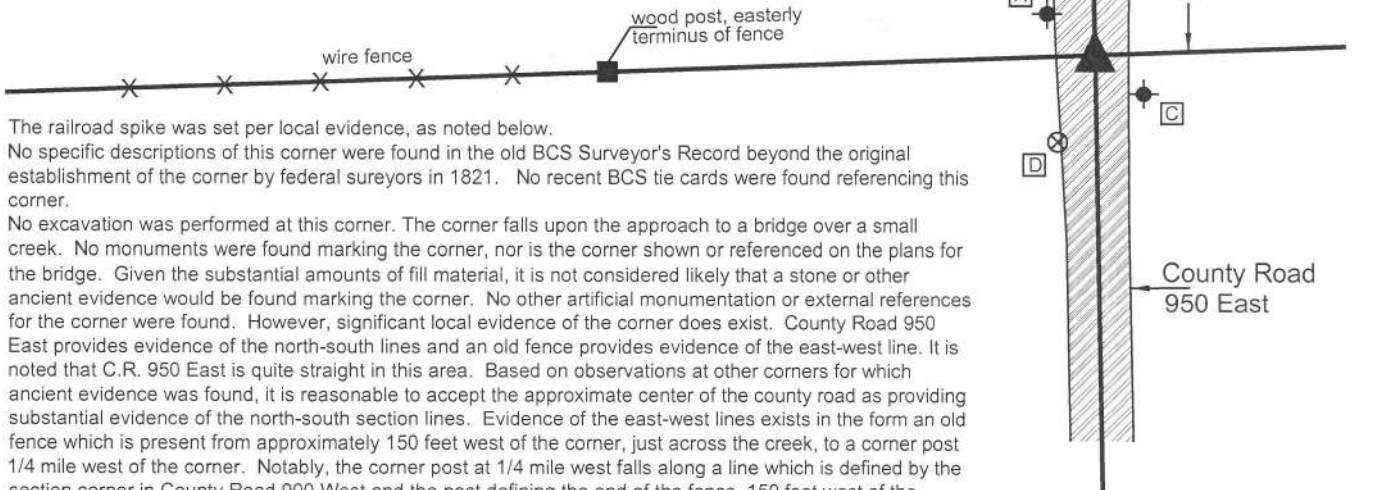
### CORNER WITNESS DETAIL

SCALE 1" = 60'

- A - Mag nail w/ shiner set in top, S.W. most guard rail post, 19.9'
- B - Mag nail w/ shiner set in top, N.E. most guard rail post, 45.8'
- C - Mag nail w/ shiner set in top, S.E. most guard rail post, 19.4'
- D - Boone County witness mark, flush, 30.1'

References to S.W., N.E. and S.E. most guard rail post refer to S. side of bridge.

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

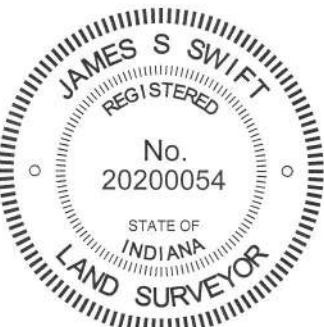


The railroad spike was set per local evidence, as noted below.

No specific descriptions of this corner were found in the old BCS Surveyor's Record beyond the original establishment of the corner by federal surveyors in 1821. No recent BCS tie cards were found referencing this corner.

No excavation was performed at this corner. The corner falls upon the approach to a bridge over a small creek. No monuments were found marking the corner, nor is the corner shown or referenced on the plans for the bridge. Given the substantial amounts of fill material, it is not considered likely that a stone or other ancient evidence would be found marking the corner. No other artificial monumentation or external references for the corner were found. However, significant local evidence of the corner does exist. County Road 950 East provides evidence of the north-south lines and an old fence provides evidence of the east-west line. It is noted that C.R. 950 East is quite straight in this area. Based on observations at other corners for which ancient evidence was found, it is reasonable to accept the approximate center of the county road as providing substantial evidence of the north-south section lines. Evidence of the east-west lines exists in the form an old fence which is present from approximately 150 feet west of the corner, just across the creek, to a corner post 1/4 mile west of the corner. Notably, the corner post at 1/4 mile west falls along a line which is defined by the section corner in County Road 900 West and the post defining the end of the fence, 150 feet west of the subject corner. Given that the nearly 1/4 mile long fence falls along the longer half mile line with less than one foot variation as observed at several points along the line, minimal uncertainty is associated with the evidence of this line. The line, defined from the corner in CR 900W through the easterly end post of the fence, was prolonged mathematically to its intersection with the approximate north-south centerline of County Road 950 East. The corner was established at this point of intersection. A railroad spike was set at this corner.

This corner was originally established as a wood post in 1821.



*Kenneth E. Hedge*  
 Kenneth E. Hedge, County Surveyor

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

March 27, 2015

Marion Township



# SECTION CORNER RECORD

NE 900-1000

## BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (2011):

North: 1794552.30 East: 3177124.62 (U.S. survey feet)

Type of monument: Plug in monument box, INDOT Type B

Depth: Flush with adjacent road surface

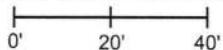
Indiana tie card references:

IN02\_T20NR2E15\_80 IN02\_T20NR2E14\_72

IN02\_T20NR2E22\_08 IN02\_T20NR2E23\_00

### CORNER WITNESS DETAIL

SCALE 1" = 40'

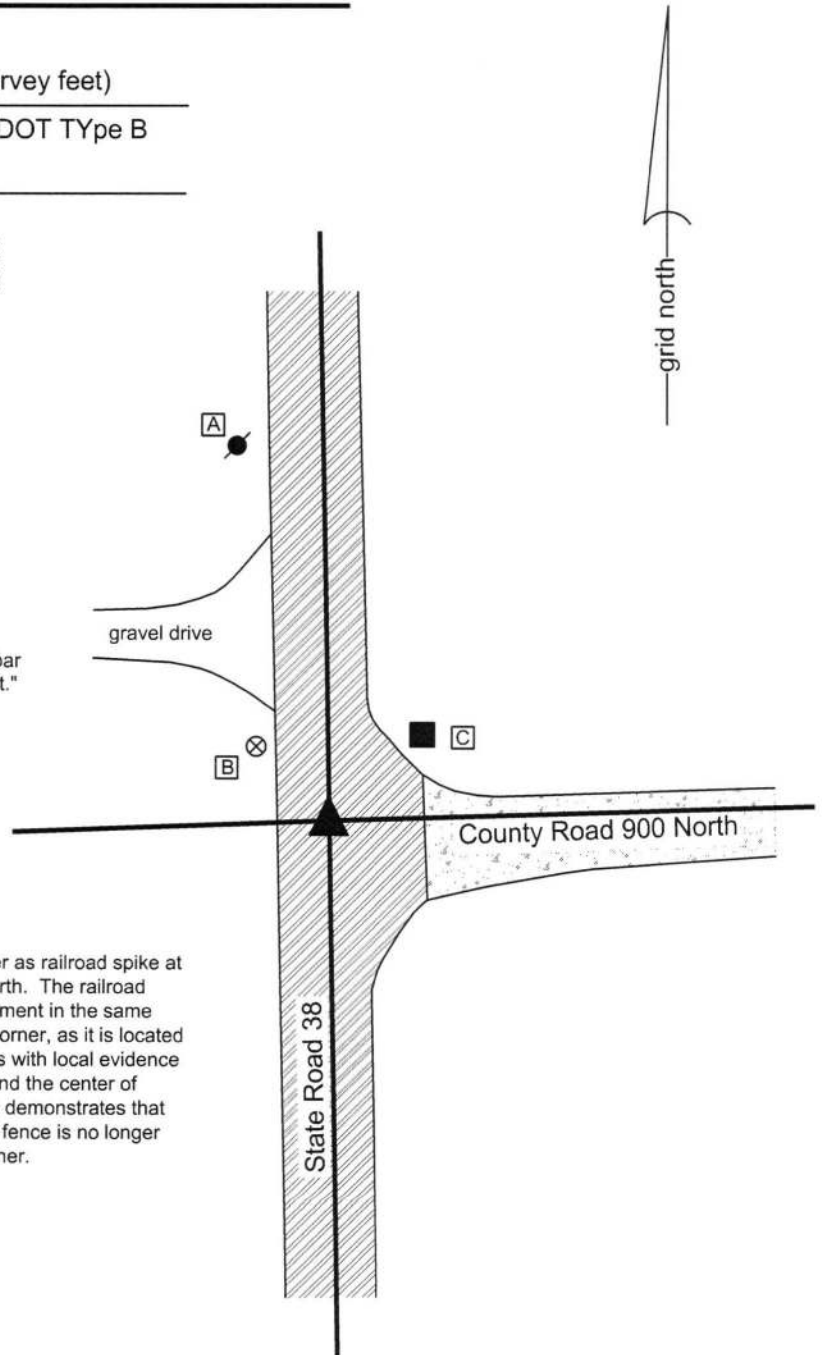


A - Mag nail set in E. side power pole, 2' a.g., 80.1'

B - Boone County witness mark, flush, 21.6'

C - Mag nail set in S. side wood post, 2' a.g., 24.5'

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



The INDOT Type B monument was found in place.

A BCS tie card dated September 18, 2006 shows the corner as railroad spike at the intersection of State Road 38 and County Road 900 North. The railroad spike has been subsequently replaced with a Type B monument in the same position by INDOT. Excavation was not performed at this corner, as it is located within an Indiana state highway. The Type B monument fits with local evidence in the form of the center of S.R. 38 to the north and south and the center of County Road 900 North to the east. The 2006 tie card also demonstrates that the railroad spike was in line with a fence to the west. This fence is no longer present. The Type B monument is held as marking the corner.



*Kenneth E. Hedge*  
Kenneth E. Hedge, County Surveyor

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

Marion Township

Section 15 T20N, R2E	Section 14 T20N, R2E
Section 22 T20N, R2E	Section 23 T20N, R2E