SECTION CORNER RECORD NE 400-1000

BOONE COUNTY SURVEYOR'S OFFICE

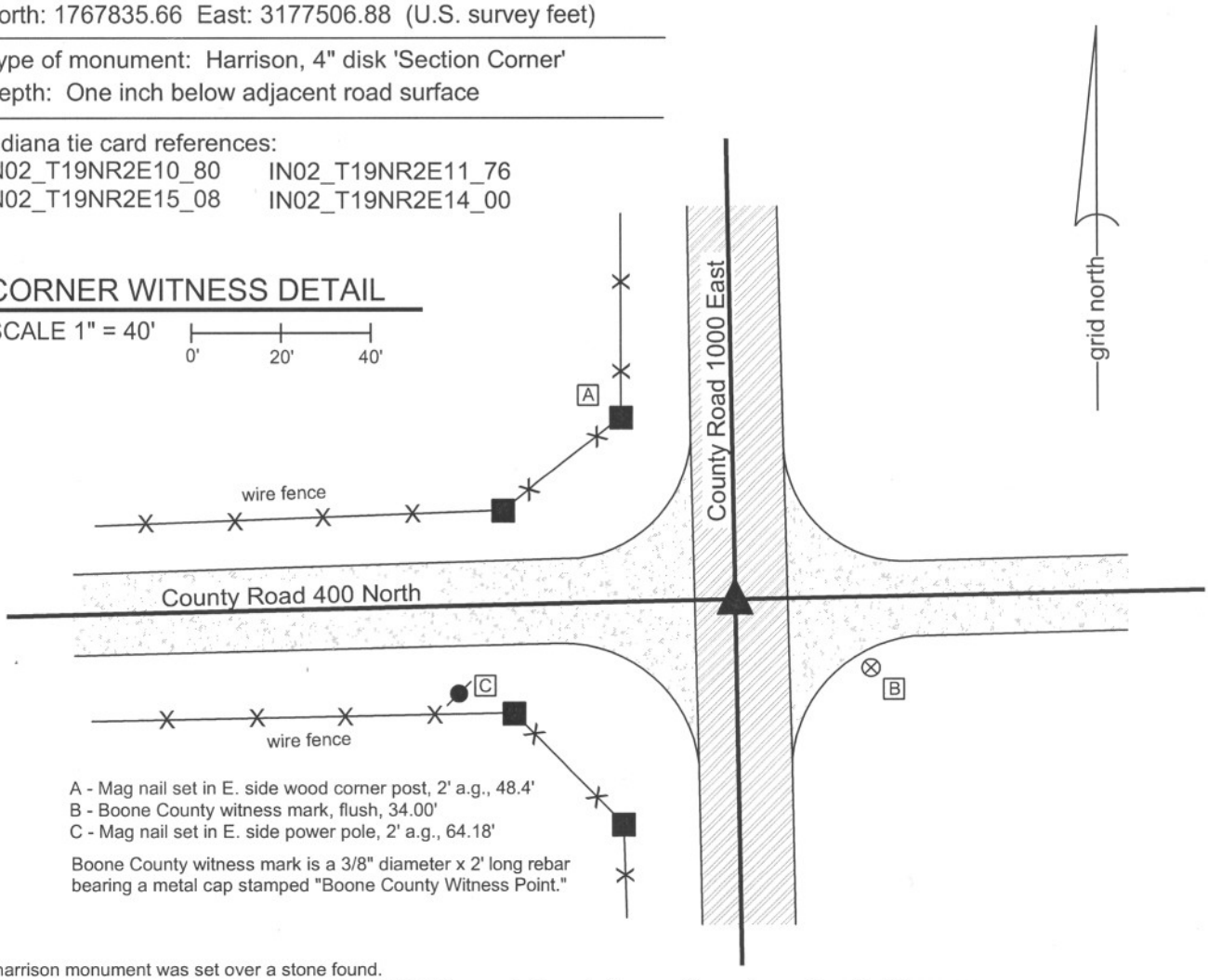
State Plane grid coordinates NAD83 (NSRS 2007):
North: 1767835.66 East: 3177506.88 (U.S. survey feet)

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

Indiana tie card references:
IN02_T19NR2E10_80 IN02_T19NR2E11_76
IN02_T19NR2E15_08 IN02_T19NR2E14_00

CORNER WITNESS DETAIL

SCALE 1" = 40' 0' 20' 40'



A - Mag nail set in E. side wood corner post, 2' a.g., 48.4'
B - Boone County witness mark, flush, 34.00'
C - Mag nail set in E. side power pole, 2' a.g., 64.18'

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.
No references to this corner were found the in the old BCS Surveyor's Record. No recent tie cards were found for this corner.
This corner was excavated on August 27, 2010. Prior to excavation a nail was visible in a hole 1 inch below the surrounding asphalt. Excavation revealed a 1/2 inch diameter rebar found at 6 inches deep, 0.2 foot north of the nail. Further excavation revealed a stone found at 31 inches deep. The stone is fully embedded in the clay layer below the road with the top of the stone at the bottom of the road bed. The stone is 18 inches N-S by 12 inches E-W and approximately 8 inches tall, as measured on the northeast edge. The characteristic of this stone, embedded in the clay and horizontal, rather than vertical, fit the characteristcs of other corner stones which appear to been have been intentionally set but are either not mentioned in the BCS Surveyor's Record or are mentioned as "a stone that was set" (meaning the stone was found and appeared to be intentionally set). It presumed that these stones were set by pioneer settlers or surveyors prior to the second half of the 1800s when the common practice was adopted by County Surveyors of setting the stones in a vertical orientation. The stone was left in place and the harrison monument was set over the approximate top, center of the stone. The nail, removed during excavation, had been 0.7 foot north and 1.2 feet east of this point.
This corner was originally established as a wood post in July, 1821.

JAMES S SWIFT
REGISTERED
No.
20200054
STATE OF
INDIANA
LAND SURVEYOR

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054

July 25, 2011

Marion Township

Section 10 T19N, R2E	Section 11 T19N, R2E
Section 15 T19N, R2E	Section 14 T19N, R2E

BOONE COUNTY SURVEYOR'S OFFICE

NE 400-1000

PHOTOGRAPHIC DOCUMENTATION
Date of photography: August 27, 2010

View of the stone from above and east.

View of the stone from above and north.

View of the stone from above and west.

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

SECTION CORNER RECORD NE 400-1050

BOONE COUNTY SURVEYOR'S OFFICE

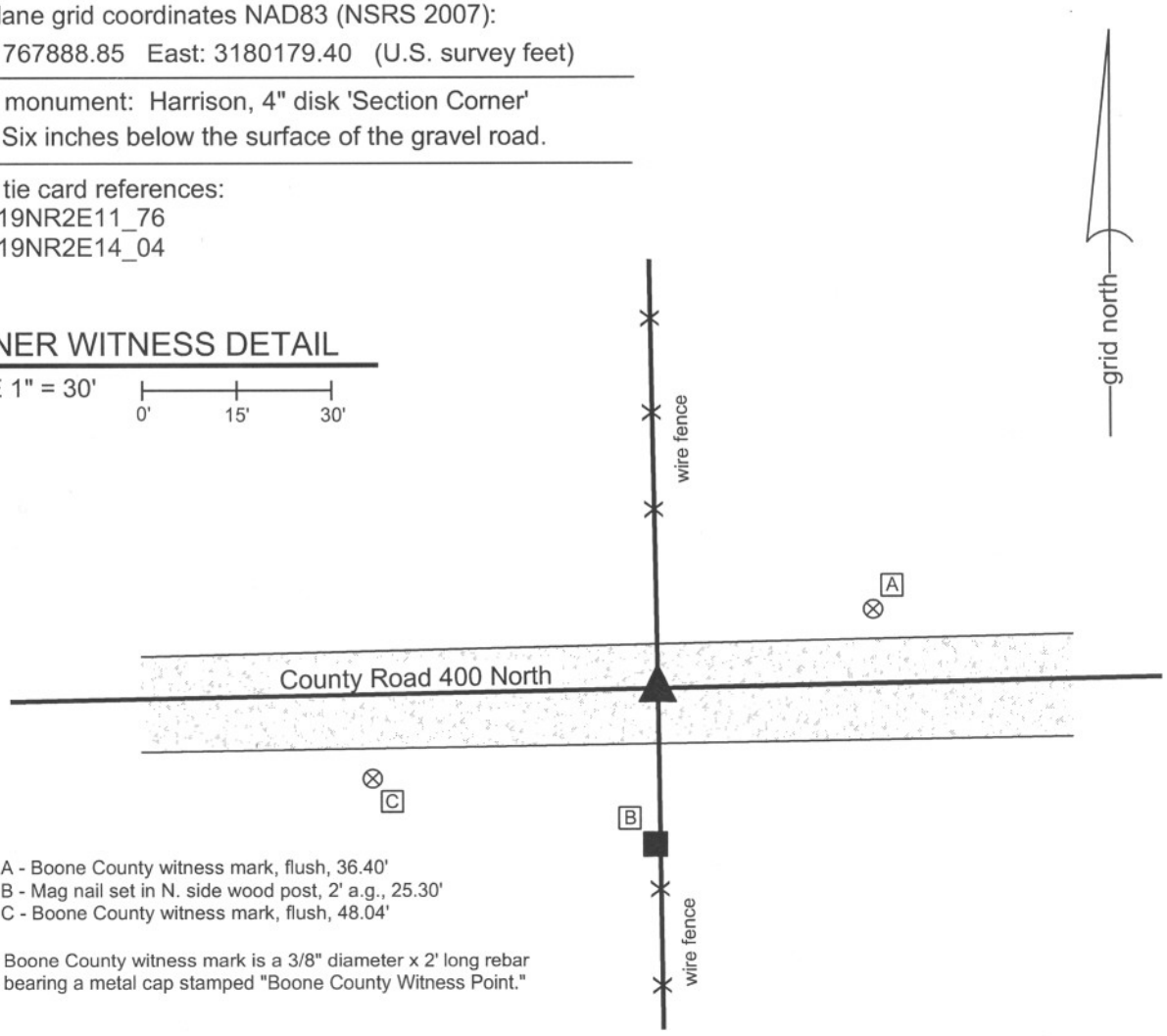
State Plane grid coordinates NAD83 (NSRS 2007):
North: 1767888.85 East: 3180179.40 (U.S. survey feet)

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

Indiana tie card references:
IN02_T19NR2E11_76
IN02_T19NR2E14_04

CORNER WITNESS DETAIL

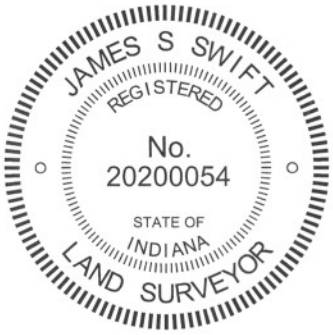
SCALE 1" = 30'



A - Boone County witness mark, flush, 36.40'
B - Mag nail set in N. side wood post, 2' a.g., 25.30'
C - Boone County witness mark, flush, 48.04'

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 railroad rail found.
A BCS tie card dated June 16, 1971 states "found stone, put in RRR." No specific descriptions of this corner were found in the old BCS Surveyor's Record, though the corner is mentioned as the terminal point of a measurement in 1853.
This corner was excavated on August 31, 2010. A railroad rail was found at 3 inches, leaning strongly towards the north and east. A 5/8 inch diameter rebar was found south and west of the rail and another 5/8 inch rebar was found north and west of the rail. No stone was found. It appears that the stone found in 1971 was removed and replaced with the rail, as was a common practice of BCS field crews from that time frame. It is known that the crews generally replaced the stone with a monument set vertically. The severe lean of the rail is probably due to displacement by a road grader. The rail was stood vertical by holding the position of the botttom of the 30 inch long section of rail. The top of the rail, as straightened, was approximatley 4 inches south and 1 foot west of the top as originally found and also similar in position to one of the rebars found. The road bed in this area is approximately 8 inches thick. All found monuments were removed and a harrison monument was set in the position of the rail as stood vertical.
This corner was originally established in July, 1821.

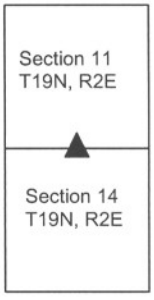


Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054

July 25, 2011

Marion Twp



SECTION CORNER RECORD NE 400-1100

BOONE COUNTY SURVEYOR'S OFFICE

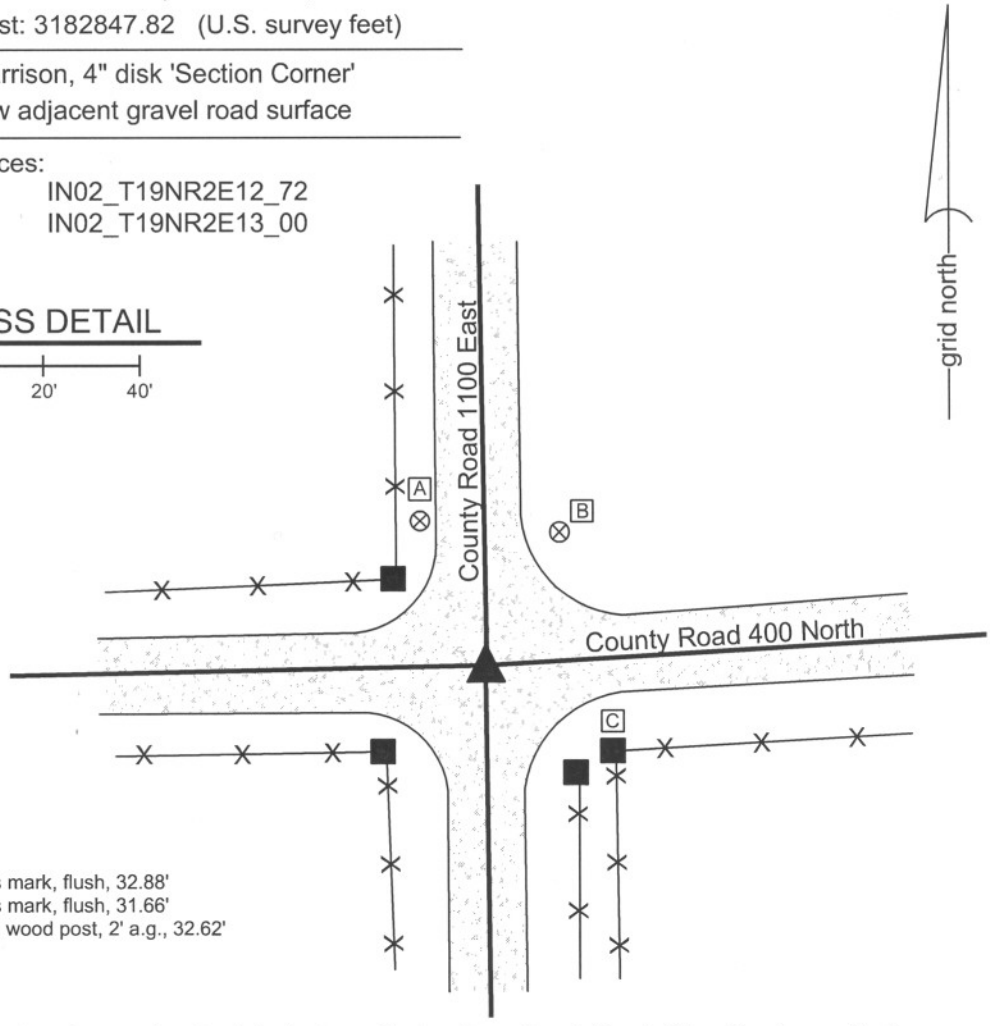
State Plane grid coordinates NAD83 (NSRS 2007):
North: 1767944.23 East: 3182847.82 (U.S. survey feet)

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

Indiana tie card references:
IN02_T19NR2E11_80 IN02_T19NR2E12_72
IN02_T19NR2E14_08 IN02_T19NR2E13_00

CORNER WITNESS DETAIL

SCALE 1" = 40' 0' 20' 40'



A - Boone County witness mark, flush, 32.88'
B - Boone County witness mark, flush, 31.66'
C - Mag nail set in N. side wood post, 2' a.g., 32.62'

The harrison monument was set in place of a stone found and also in place of the top of a section of railroad rail found leaning over the stone.
A BCS record of May 7-8, 1861 states "Reestablished from one tree still some remains of the other. Set Stone 12.8 by 6 in." A BCS tie card dated July 19, 1974 states "Found stone + RRR."
This corner was excavated on August 26, 2010. Prior to excavation, two 5/8 inch diameter rebars were adjacent to each other at approximately 3 inches below the surface of the gravel road. Excavation revealed the top of a railroad rail at approximately 4 inches, slightly south and east of the rebars. The rail was leaning substantially towards the south. Further excavation revealed that the rail was leaning over the top of a stone, the top of which was found at 13 inches below the level of the surface of the road. The stone was larger than the 1861 record stone, measuring 18 inches tall by 16 inches N-S by 12 inches E-W. Approximately the bottom 10 inches of the stone were embedded in the clay layer below the road while the top 8 inches were protruding into the base of the road. The stone was removed and no other evidence of the corner was found. Excavation extended 4 feet to the north but no further excavation was performed south of the corner due to the presence of a large bundled phone line crossing the intersection near the corner, per IUPPS. The rail was leaning such that the top of the rail was directly over the physical top, center of the stone. The rebars had been approximately three inches northwest of this point. The rebars, rail and stone were removed during excavation and a harrison monument was set at the position of the top of the rail and the top of the stone. This corner was originally estalibished as a wood post in June, 1821.

JAMES S SWIFT
REGISTERED
No. 20200054
STATE OF INDIANA
LAND SURVEYOR

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
July 25, 2011

Marion Twp

Section 11 T19N, R2E	Section 12 T19N, R2E
Section 14 T19N, R2E	Section 13 T19N, R2E

BOONE COUNTY SURVEYOR'S OFFICE

NE 400-1100

PHOTOGRAPHIC DOCUMENTATION
Date of photography: September 13, 2010

View of the stone as first exposed.

View of the stone partially exposed.

View from the north, looking across the stone and south along County Road 1100 East.

View of the stone from above and north.

The stone and railroad rail (rail is in the grass) after being removed from the road bed.

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

SECTION CORNER RECORD NE 450-1000

BOONE COUNTY SURVEYOR'S OFFICE

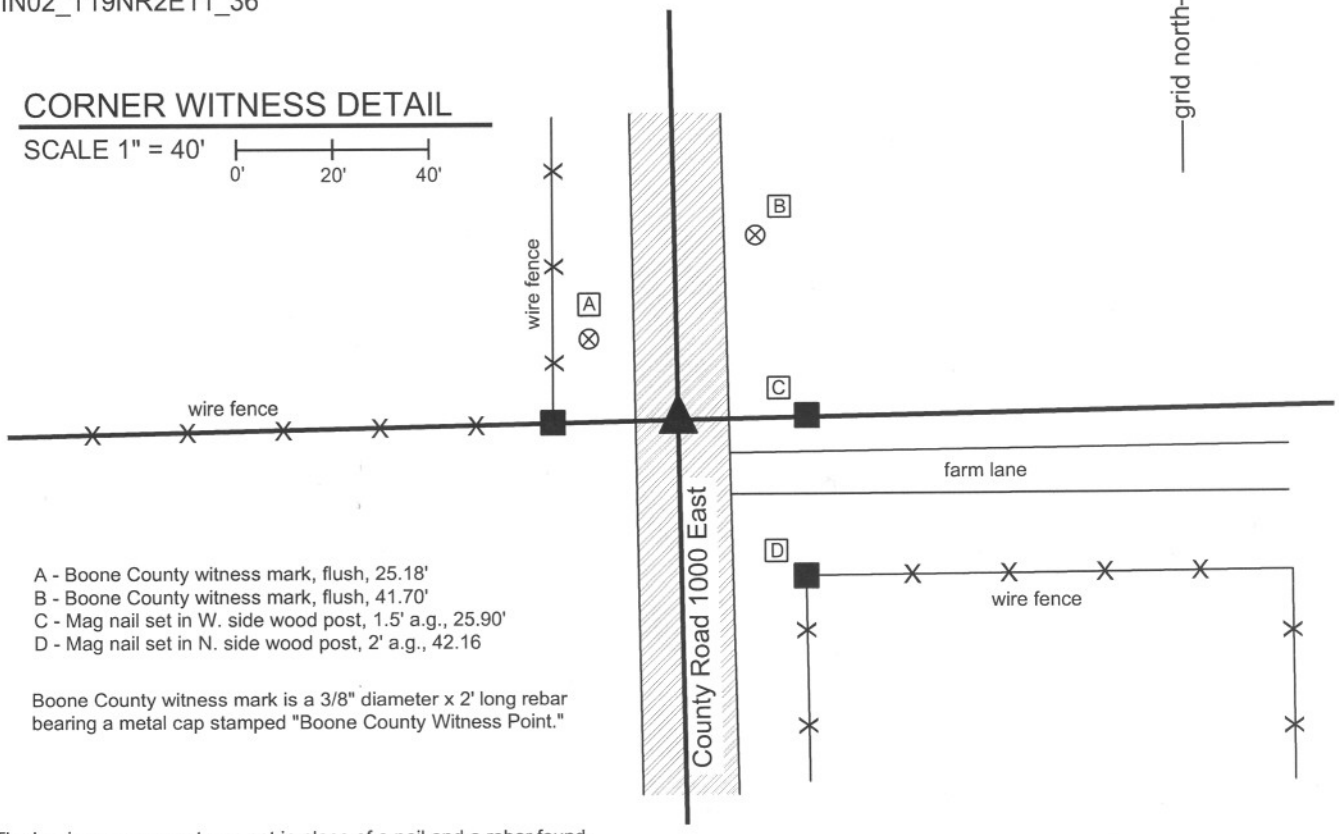
State Plane grid coordinates NAD83 (CORS96):
North: 1770486.57 East: 3177460.76 (U.S. survey feet)

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

Indiana tie card references:
IN02_T19NR2E10_44
IN02_T19NR2E11_36

CORNER WITNESS DETAIL

SCALE 1" = 40' 0' 20' 40'



A - Boone County witness mark, flush, 25.18'
B - Boone County witness mark, flush, 41.70'
C - Mag nail set in W. side wood post, 1.5' a.g., 25.90'
D - Mag nail set in N. side wood post, 2' a.g., 42.16

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 nail and a rebar found.
No specific descriptions of this corner were found in the BCS Surveyor's Record. The corner is shown as the terminal point for a measurement in 1853.
No recent BCS tie cards were found referencing this corner.
This corner was excavated on November 15, 2011. Prior to excavation, a nail in a large washer (shiner) was found in a hole 2 inches deep in the asphalt road. Excavation revealed a 5/8 inch diameter rebar found at 9 inches deep, directly below the nail. The rebar was bent, with four inches of rebar beyond the bend point, indicating that the rebar was originally at 5 inches deep. The rebar was removed and found to be 2 feet long. A small rock was found at 26 inches deep, but was entirely in the fill material of the road bed and did not appear to represent evidence of the corner. A 15 inch long piece of 1/2 inch diameter conduit was found at 3 feet, generally below the nail and rebar. The position of the piece of conduit was disturbed, as found, and could not be specifically determined. Several pieces of broken tile and small rocks were also found generally below the nail and rebar. No other evidence was found in an area of excavtion extended 2.5 feet north, 3 feet east, 2.5 feet south, and 2 feet west. Excavation was performed to a minimum of 3.5 feet, into the top of the dense clay layer below the road bed. The nail and rebar fit with the local evidence in the form of the north-south road and the fence to the west. The were accepted as the best available evidence of the corner and replaced with a harrison monument set in the same position.
This corner was originally established as a wood post in July, 1821.

JAMES S SWIFT
REGISTERED
No.
20200054
STATE OF
INDIANA
LAND SURVEYOR

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
March 1, 2012

Marion Township

Section 10 T19N, R2E	Section 11 T19N, R2E

SECTION CORNER RECORD NE 450-1100

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (CORS96):
North: 1770589.27 East: 3182808.21 (U.S. survey feet)

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

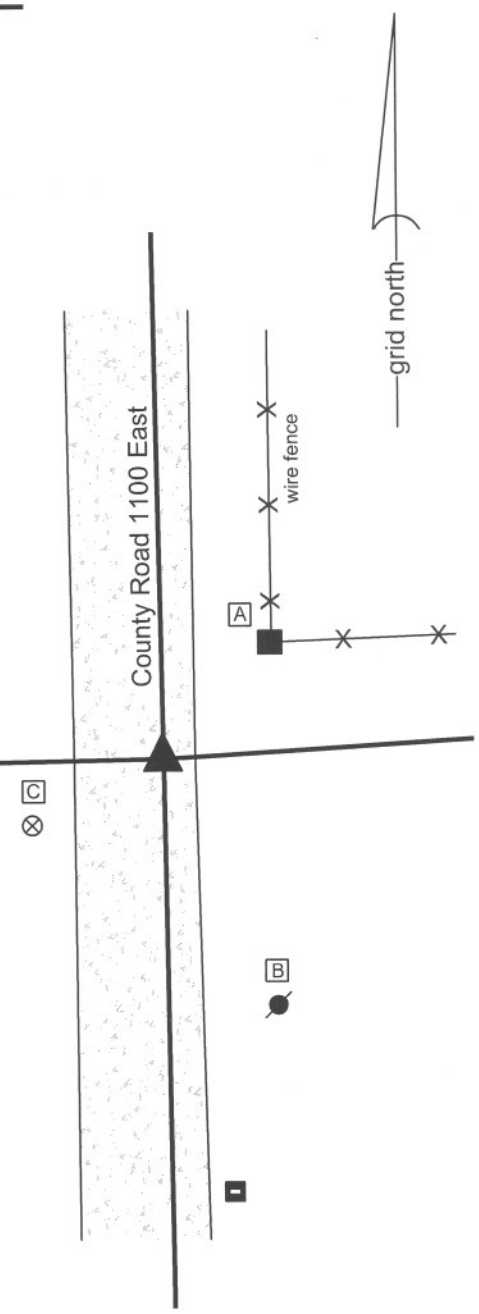
Indiana tie card references:
IN02_T19NR2E11_44
IN02_T19NR2E12_36

CORNER WITNESS DETAIL

SCALE 1" = 30' 0' 15' 30'

A - Mag nail set in W. side wood post, 1.3' a.g., 24.92'
B - Mag nail set in W. side power pole, 2' a.g., 41.95'
C - Boone County witness mark, flush, 22.95'

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 place of a stone found and over another stone found. A BCS record of September 23, 1870 states "Reestablished from roots of Beech. Set two Rocks one 12.11.6 +. Top one 16.8.5 1/2 +". No recent BCS tie cards were found referencing this corner.
This corner was excavated on November 16, 2011. No metal monument were found prior to excavation. Excavation beginning at the calculated midpoint of the line connecting the section corners to the north and south. Excavation revealed a stone found slightly below the surface. The stone was broken, as found. With the top portion of the stone set on the bottom, the south was 1 inch below the grade of the road. The top, broken portion was painted pink, indicating that it has been found by a field surveyor reasonably recently. No documentation was found for surveys referencing the stone. The stone, being the two portions put together, measured 16 inches tall by 8 inches E-W by 6 inches N-S. This was accepted as being the record top stone described in 1870. An etched + mark was visible on the top of the stone, as put together. The stone was removed and another stone was found below it. This stone measured approximately 11 inches by 11 inches on the top. The remaining dimensions were not confirmed. The lower stone is at approximately 21 inches deep. The lower stone was left in place and the harrison monument was set over it, in the position of the etched + on the top of the upper stone. Although the top portion of the upper stone had been disturbed as found, minimal uncertainty exists as to where the top portion would have been, when placed back onto the bottom portion. The etched + on the top of the stone would have likely been held as the specific point of the corner by field surveyors finding the rock before it was broken and disturbed.
This corner was originally established as a wood post in late June or early July, 1821

JAMES S SWIFT
REGISTERED
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20200054
STATE OF
INDIANA
LAND SURVEYOR

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
March 1, 2012

Marion Township

Section 11 T19N, R2E	Section 12 T19N, R2E

BOONE COUNTY SURVEYOR'S OFFICE

NE 450-1100

PHOTOGRAPHIC DOCUMENTATION
Date of photography: November 16, 2011

The upper portion of the top stone as first exposed. The stone was already painted when found.

The lower portion of the top stone as found.

View of the two parts of the top stone from the north, looking south along County Road 1100 East.

The two parts of the top stone put together.

The bottom stone as found and exposed.

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

SECTION CORNER RECORD NE 500-1000

BOONE COUNTY SURVEYOR'S OFFICE

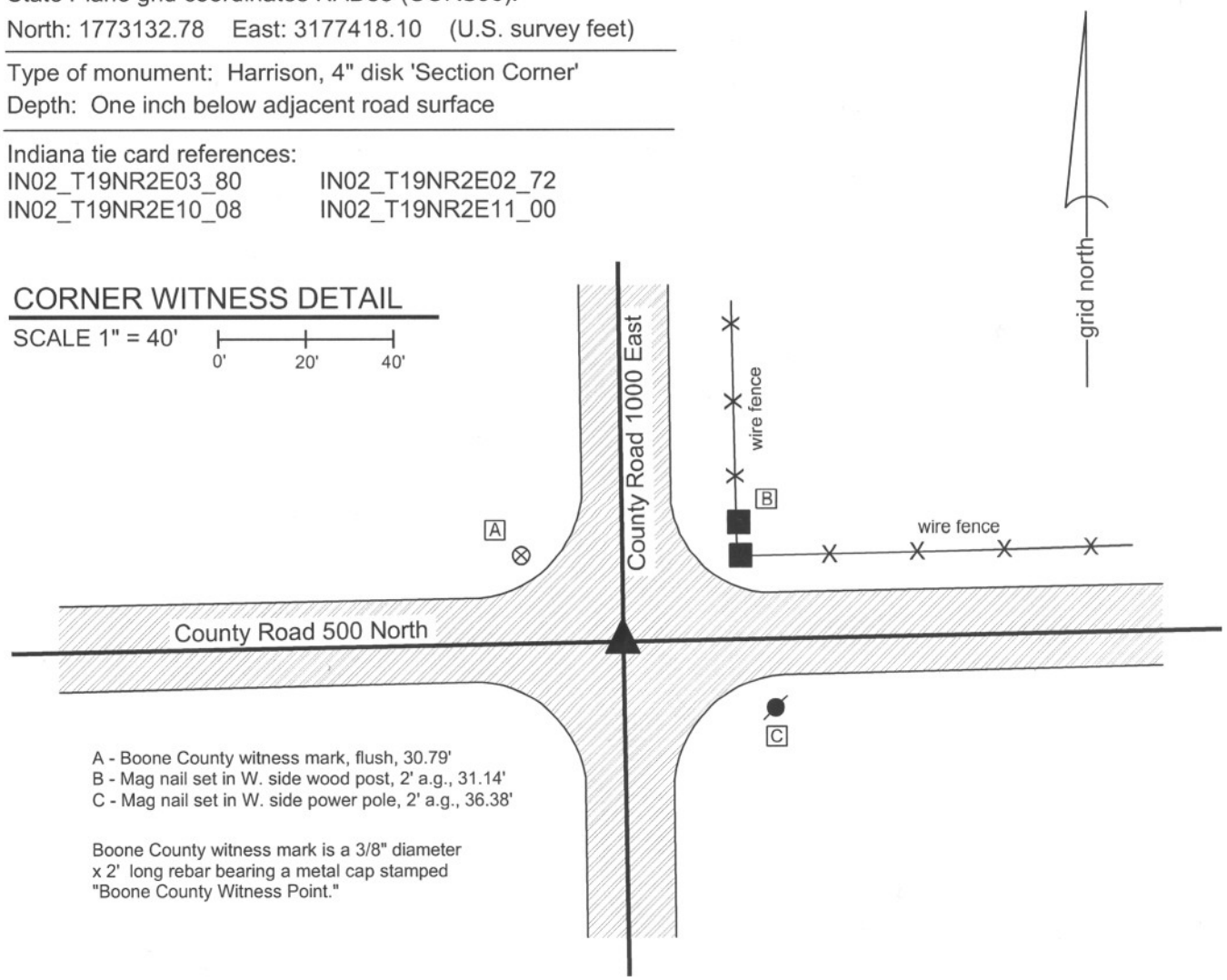
State Plane grid coordinates NAD83 (CORS96):
North: 1773132.78 East: 3177418.10 (U.S. survey feet)

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

Indiana tie card references:
IN02_T19NR2E03_80 IN02_T19NR2E02_72
IN02_T19NR2E10_08 IN02_T19NR2E11_00

CORNER WITNESS DETAIL

SCALE 1" = 40' 0' 20' 40'



A - Boone County witness mark, flush, 30.79'
B - Mag nail set in W. side wood post, 2' a.g., 31.14'
C - Mag nail set in W. side power pole, 2' a.g., 36.38'

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 April 7, 1882 states "Cor. stone marked +." Field notes dated June 1970, for which no tie card was found, state "Set rail." A BCS tie card dated June 19, 1974 states "Found Rail."
This corner was excavated on April 12, 2011. Prior to excavation, a PK nail was found 4 inches deep in a hole in the asphalt. Excavation revealed a vertical section of railroad rail found at 7 inches deep, directly below the PK nail. Further excavation revealed a stone found at 20 inches deep. With 11 inches of the top exposed, the stone measures 10 inches N-S by 6 inches E-W. The full height of the stone was not measured but it is clearly larger, remaining entirely stable in the clay with 10 inches exposed. The stone is embedded in the clay layer below the road protruding 2 inches out of the clay into the bottom of the road bed. The west side of the stone is flat and vertical. No specific marking were identified. The stone has a distinct top, high point which was held as the specific position of the corner. The harrison monument was set over the top high, point. The PK nail and railroad rail, both removed during excavation, had been 2.1 feet west and 1.6 feet north of the corner.
This corner was originally established as a wood post in July, 1821.

JAMES S SWIFT
REGISTERED
No. 20200054
STATE OF INDIANA
LAND SURVEYOR

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
March 1, 2012

Marion Township

Section 3 T19N, R2E	Section 2 T19N, R2E
Section 10 T19N, R2E	Section 11 T19N, R2E

BOONE COUNTY SURVEYOR'S OFFICE

NE 500-1000

PHOTOGRAPHIC DOCUMENTATION
Date of photography: April 12, 2011

View of the stone as first exposed.

View of the stone from the north.

View from the north, looking across the stone and south along County Road 1000 East.

View of the stone from above and east.

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

SECTION CORNER RECORD NE 500-1050

BOONE COUNTY SURVEYOR'S OFFICE

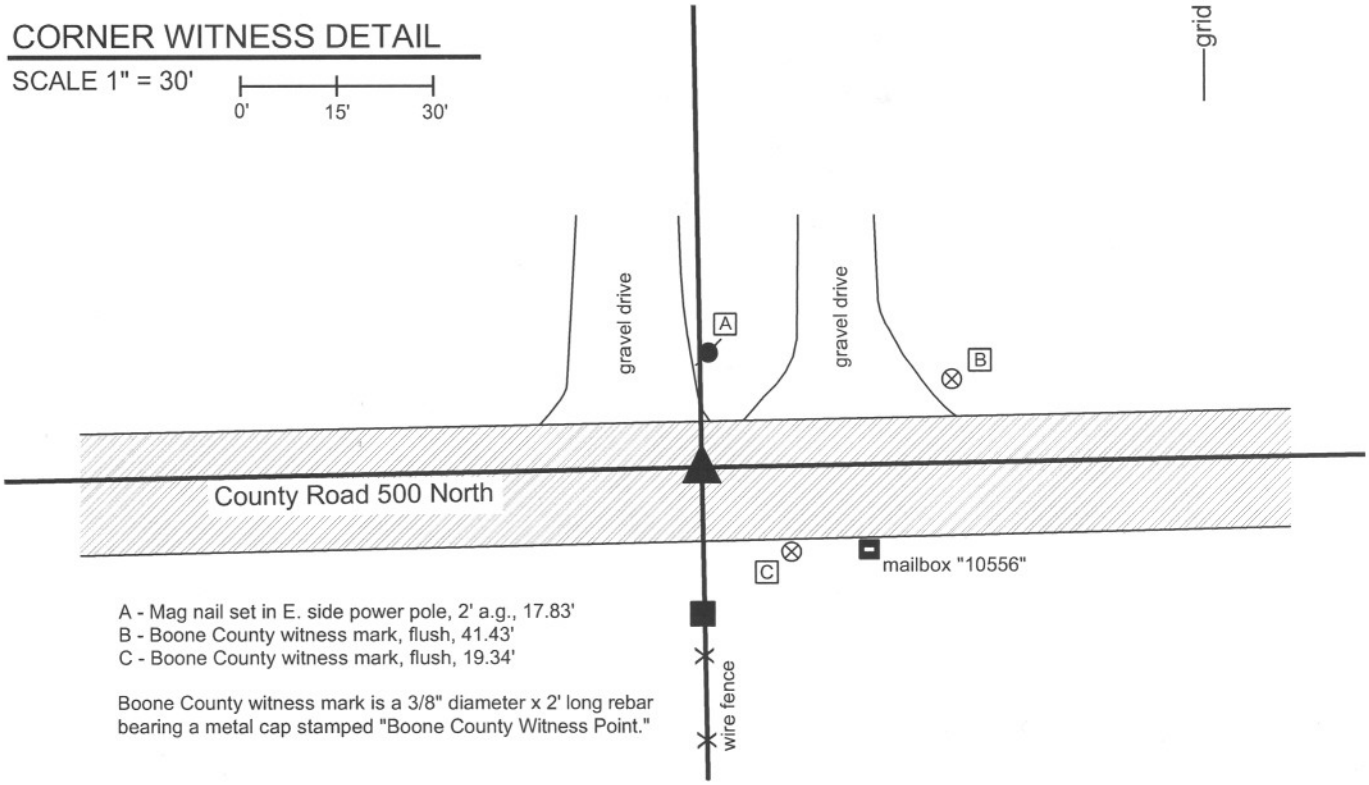
State Plane grid coordinates NAD83 (CORS96):
North: 1773181.78 East: 3180085.62 (U.S. survey feet)

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

Indiana tie card references:
IN02_T19NR2E02_76
IN02_T19NR2E11_04

CORNER WITNESS DETAIL

SCALE 1" = 30'



A - Mag nail set in E. side power pole, 2' a.g., 17.83'
B - Boone County witness mark, flush, 41.43'
C - Boone County witness mark, flush, 19.34'

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 August 16-17, 1871 states "Set two Rocks. One 8.7.4 +. Top one (ugly) 17.10.6 +." BCS field notes dated June, 1970, for which no tie card was found, state "found stone replaced with rail." A BCS tie card dated June 19, 1974 states "Found Stone & Rail."
This corner was excavated on September 23, 2011. Prior to excavation a railroad rail was found at 6 inches deep in a hole in the asphalt. Excvavtion revealed no further evidence of the corner. The clay layer below the road begins at 15 inches deep. Excavation was performed to a minimum of 20 inches and probing was performed in the vicnity of the rail to an additional 18 inches. The 1970 field notes specifically state that the found stone was replaced with a rail. These notes do not mention two stones, per the 1871 record. The 1974 tie card states that a stone and rail were both found. Only the rail was found during excavation and no explanation is offered for this discrepancy.
The rail was removed during excavation and it was replaced with a harrison monument in the same position.
This corner was originally established as a wood post in July, 1821.

JAMES S SWIFT
REGISTERED
No.
20200054
STATE OF
INDIANA
LAND SURVEYOR

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
March 1, 2012

Marion Twp

Section 2
T19N, R2E

Section 11
T19N, R2E

SECTION CORNER RECORD NE 500-1100

BOONE COUNTY SURVEYOR'S OFFICE

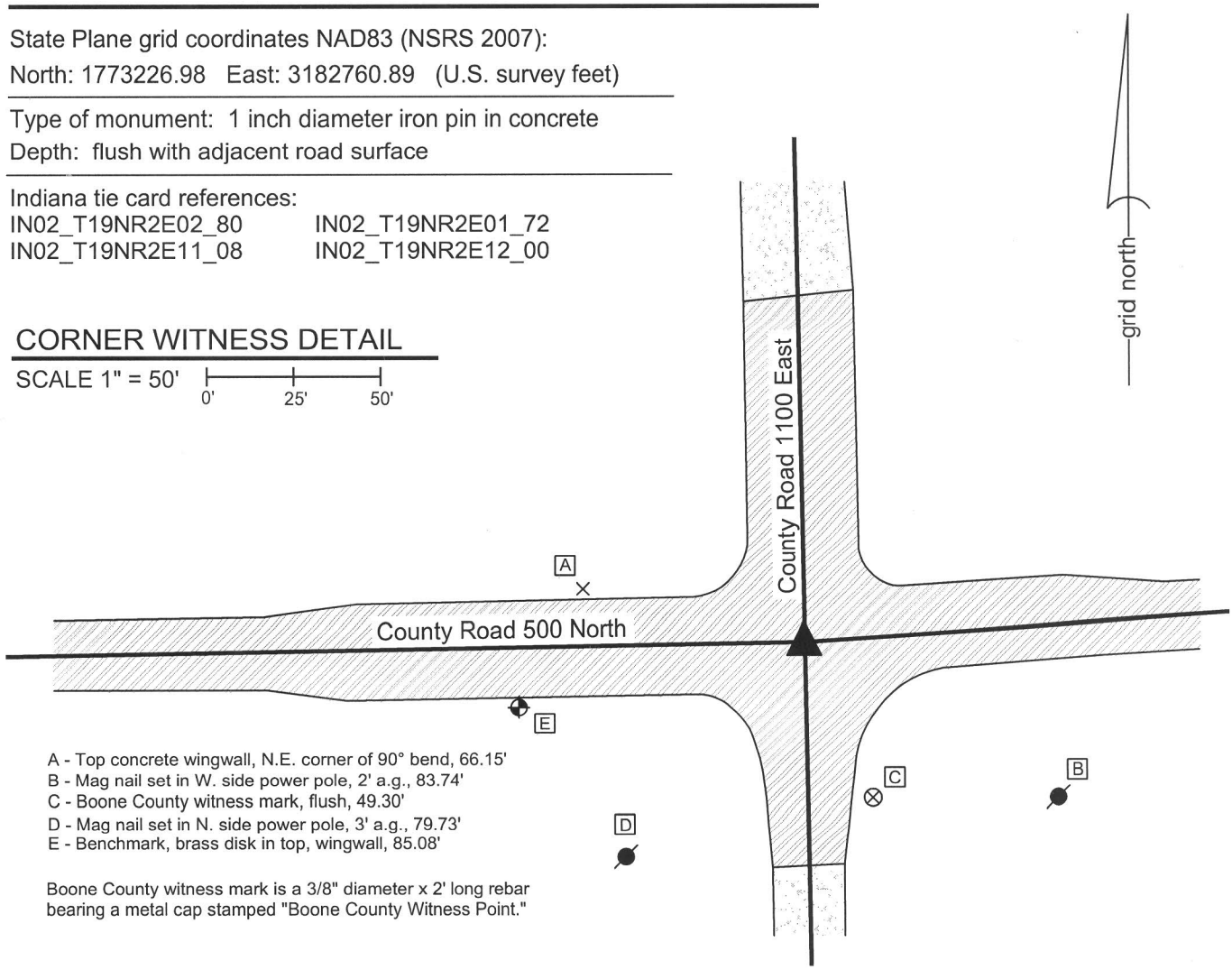
State Plane grid coordinates NAD83 (NSRS 2007):
North: 1773226.98 East: 3182760.89 (U.S. survey feet)

Type of monument: 1 inch diameter iron pin in concrete
Depth: flush with adjacent road surface

Indiana tie card references:
IN02_T19NR2E02_80 IN02_T19NR2E01_72
IN02_T19NR2E11_08 IN02_T19NR2E12_00

CORNER WITNESS DETAIL

SCALE 1" = 50' 0' 25' 50'



A - Top concrete wingwall, N.E. corner of 90° bend, 66.15'
B - Mag nail set in W. side power pole, 2' a.g., 83.74'
C - Boone County witness mark, flush, 49.30'
D - Mag nail set in N. side power pole, 3' a.g., 79.73'
E - Benchmark, brass disk in top, wingwall, 85.08'

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

A harrison monument was set over a stone found in the spring of 2011. The iron pin was set by others, in place of the harrison monument in the spring of 2012 as part of a bridge construction project.
A BCS record of September 23, 1870 states "Reestablished from a rock set where I drove stake when surveying the road. Marked rock that was there and set on top 16.14.12 +." A BCS tie card dated June, 1970 states "found stone. Replace top with Rail, bottom still in place."
This corner was excavated on April 13, 2011. Prior to excavation a section of railroad rail, evidently leaning towards the south, was found in a hole in the asphalt with a 5/8 inch diameter rebar on the east edge of the rail. The rail and rebar were removed and a stone was found at 34 inches deep. The stone is of an odd shape on top, being total of 8 inches N-S by 8 inches E-W, but being in the form of a "T" with a 5 inch arm oriented towards the north. An etched + was clearly visible, situated at the intersection of the N-S arm with the E-W arm. The height of the stone was not measured. As found, the rail was leaning south. Measurements indicated that the bottom of the rail had been below the level of the top of the stone, likely touching it on the north side and the top of the rail was 4 inches south of the etched + mark on the stone. The + mark of the stone was held as marking the corner. The stone was left in place and the harrison monument was set over the etched +. Subsequently the culverts to the immediate north and west of the corner were replaced and the harrison monument was removed during reconstruction of the intersection. The harrison was replaced in the same position by the 1 inch diameter iron pin. It is not documented whether the stone was left in place.
This corner was originally established as a wood post in June, 1821.

JAMES S SWIFT
REGISTERED
No. 20200054
STATE OF INDIANA
LAND SURVEYOR

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
February 6, 2013

Marion Township

Section 2 T19N, R2E	Section 1 T19N, R2E
Section 11 T19N, R1E	Section 12 T19N, R2E

BOONE COUNTY SURVEYOR'S OFFICE

NE 500-1100

PHOTOGRAPHIC DOCUMENTATION
Date of photography: April 13, 2011

View of the top of the railroad rail as found.

The stone found at 34 inches deep.

The stone found at 34 inches deep.

Close-up of the stone found. Note the etched + at the "T" intersection of the two parts of the stone.

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