SECTION CORNER RECORD

NE 900-300

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (CORS96):
North: 1793312.18 East: 3140091.56 (U.S. survey feet)

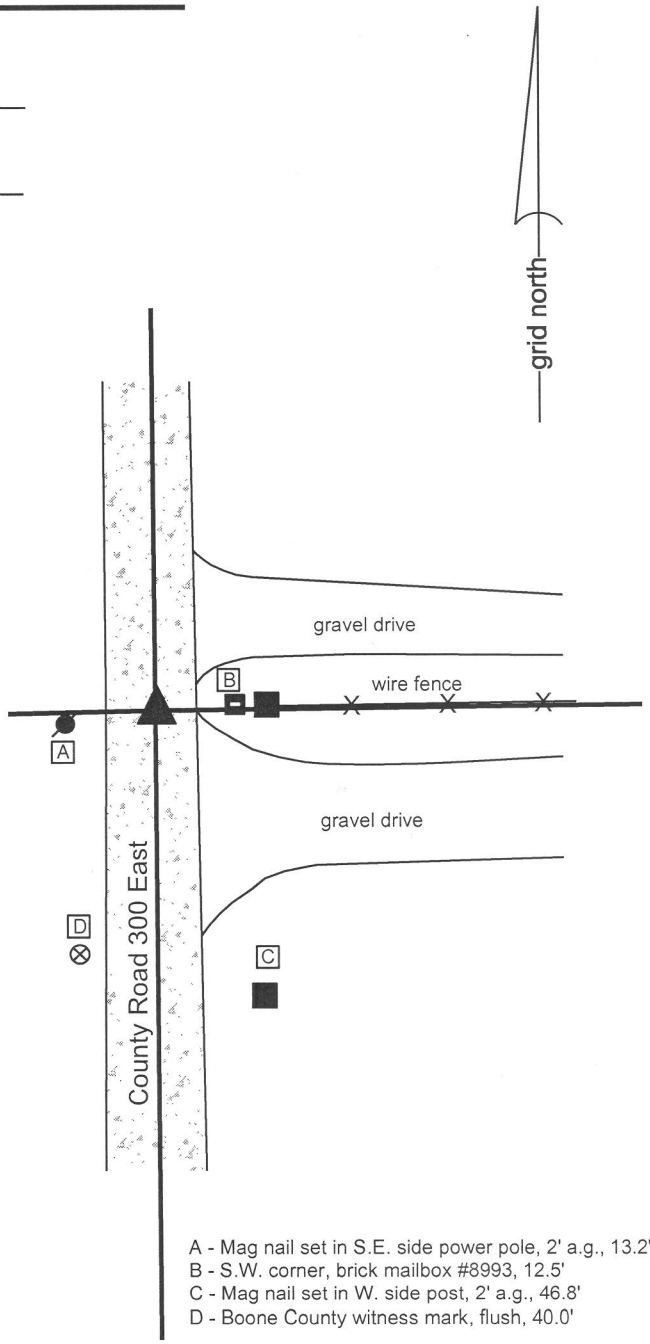
Type of monument: Harrison, 4" disk 'Section Corner'
Depth: six inches below adjacent gravel road surface

Indiana tie card references:

IN02_T20NR1E16_80 IN02_T20NR1E15_72
IN02_T20NR1E21_08 IN02_T20NR1E22_00

CORNER WITNESS DETAIL

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



A - Mag nail set in S.E. side power pole, 2' a.g., 13.2'
B - S.W. corner, brick mailbox #8993, 12.5'
C - Mag nail set in W. side post, 2' a.g., 46.8'
D - Boone County witness mark, flush, 40.0'

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 in place of a 5/8 inch diameter rebar found. No specific descriptions of this corner were found in the old BCS Surveyor's Record, though the corner is mentioned as the terminal point for measurements in records of 1891 and 1901. A BCS tie card dated June 5, 1975 states "Stone found 8" deep - set rod."

This corner was excavated on May 22, 2015. Prior to excavation, a 5/8 inch diameter rebar was found at the surface of the gravel road. The top of the rebar was bent, but the primary shaft was straight and vertical yielding minimal uncertainty as to the original position of the monument. A stone was found at 2 inches deep, slightly south and west of the rebar. The stone was vertical and oriented in cardinal directions, being 11 inches tall, 4 inches North-South and 5 inches East-West. However, the stone was found to be entirely within the fill material of the road, with the bottom of the stone at the bottom of the road bed. In almost all cases, corner stones are found embedded in the clay layer below the road. The following features of the stone as a monument are uncertain: As noted, it was in the fill material rather than being embedded in the clay. It was at 2 inches deep whereas the 1975 record states that a stone was found at 8 inches. It did not appear to be the case, nor is it most logical to assume it to be the case, that the road had been scraped to 6 inches lower than its level in 1975. No marks were found on the stone, though given the lack of specific description in the BCS Surveyor's Record, this is not a particularly remarkable fact. It is not clear what happened in 1975. The reference points for the distance ties shown on the 1975 tie card are no longer present.

In the process of excavating and examining many other corners, it has been observed that he statement 'stone found - set rod [or rail]' on BCS tie cards from the late 1960s through the mid 1970s typically indicates that the stone was found, removed and replaced with a rebar or railroad rail. It is not known whether this was the case at this particular corner. It is possible that this stone was found in 1975, removed and reset higher, adjacent to the original position. It is also possible that the stone was left in place as found and the rebar was set next to the stone, though this possibility leaves unexplained the variation of depth of the stone as found and as reported.

Given the uncertainites with the record and with the depth of the stone being in the fill material of the road and noting that the rebar was situated next to the stone near the northeast corner thereof, the rebar was held as marking the corner. The stone and rebar were both removed and a Harrison monument was set in the position of the vertical shaft of the rebar.

This corner was originally established in 1822.

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

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054

March 27, 2015

Clinton Township

Section 16 T20N, R1E	Section 15 T20N, R1E
Section 21 T20N, R1E	Section 22 T20N, R1E

SECTION CORNER RECORD NE 900-400

BOONE COUNTY SURVEYOR'S OFFICE

State Plane grid coordinates NAD83 (CORS96):
North: 1793370.06 East: 3145330.98 (U.S. survey feet)

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

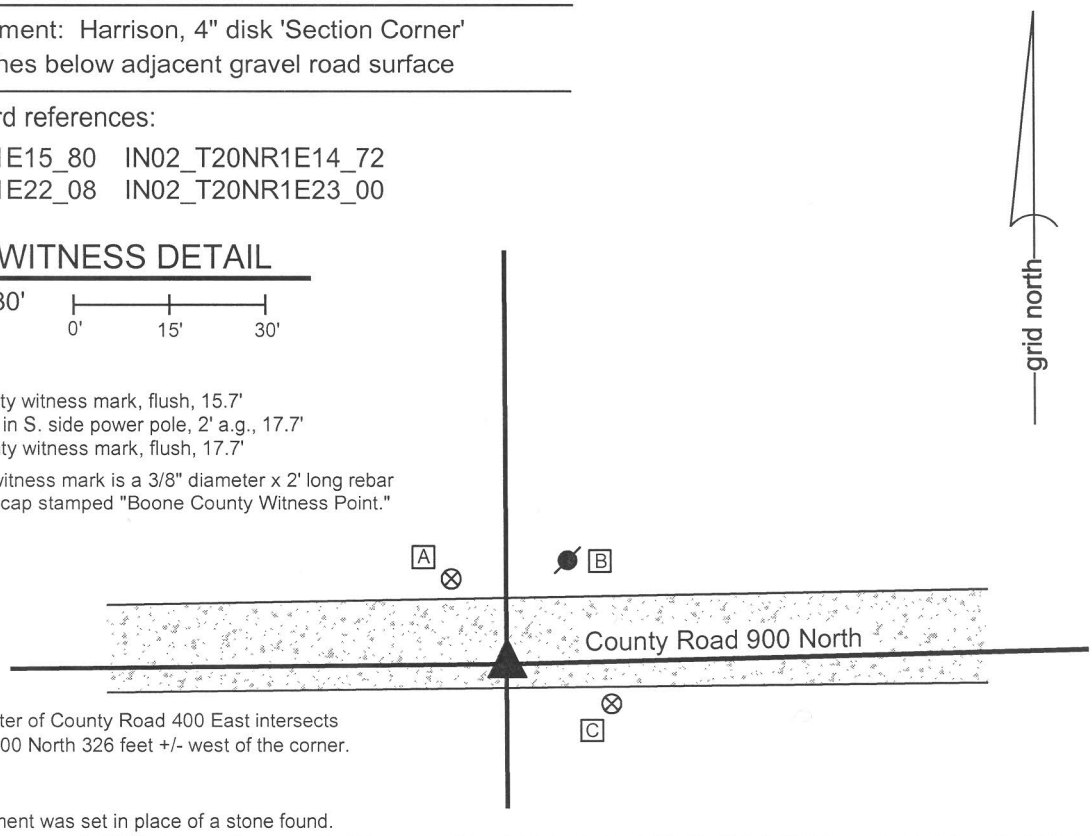
Indiana tie card references:
IN02_T20NR1E15_80 IN02_T20NR1E14_72
IN02_T20NR1E22_08 IN02_T20NR1E23_00

CORNER WITNESS DETAIL

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

A - Boone County witness mark, flush, 15.7'
B - Mag nail set in S. side power pole, 2' a.g., 17.7'
C - Boone County witness mark, flush, 17.7'

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



Note: The center of County Road 400 East intersects County Road 900 North 326 feet +/- west of the corner.

The Harrison monument was set in place of a stone found.
A BCS record of December 15, 1882 states, with respect to this corner, "Reestablished - Rock 18x11x8+" A BCS tie card dated June 3, 1975 states "No Stone Found - Set Rod."
This corner was excavated on June 11, 2014. Prior to excavation, a 5/8 inch diameter rebar with a red plastic cap stamped "witness point" was found at 1 inch below the surface of the gravel road. The source of this monument is not known and it is not believed to be the same monument referred to as a 'rod' on the 1975 tie card. No reference points remain from the 1975 witness ties. Excavation revealed the stone described in the 1882 record at 8 inches deep, south and west of the rebar. As found, the stone appeared to be leaned to the west. Based on observations of the orientation of stones found at other corners throughout the county, it is expected that a stone set by the County Surveyor in 1882 would have been set vertically. This stone appeared to have been displaced from its vertical orientation, presumably by road grading equipment and partially leaned to the west. A distinct etched "+" mark was visible towards the west side of the stone as found. The stone was stood up in a vertical orientation, leaving the base of the stone in the same position as originally found, embedded in the clay layer below the road. With the stone stood up, the etched "+" mark was on the top of the rock and the rock measured 18 inches tall by 11 inches N-W by 8 inches E-W. As stood vertically, the top of the stone was approximately 4 inches deep and it appears that the stone would have protruded 3 to 4 inches out of the clay into the base of the road bed, with the bottom 14 to 15 inches of the stone embbeded in the clay. The stone was situated towards the south edge of the road. This position fit very well with visual observations of the center of the road to the east and west. It is noted that the 1975 tie card shows the set 'rod' as being at 15.5 feet south of the post on the north side of the road. If the rebar found prior to excavation was in the same place as the rod called for in 1975, then the stone, being 1 foot south of the rebar, would have been situated at approximately 16.5 feet (1 rod) south of the post. It has been observed at other corners that the found stone or other ancient monument is often situated at 1 rod from an adjacent corner post. Both the rebar and the stone were removed and a Harrison monument was set in the position of the etched "+" on the top of the rock, as stood in a vertical orientation. The rebar had been approximately 1 foot north and 0.4 foot east of this point.
This corner was originally established as a wood post in 1822.

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

Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
March 27, 2015

Clinton Township

Section 15 T20N, R1E	Section 14 T20N, R1E
Section 22 T20N, R1E	Section 23 T20N, R1E

BOONE COUNTY SURVEYOR'S OFFICE

NE 900-400

PHOTOGRAPHIC DOCUMENTATION
Date of photography: June 11, 2014

The stone as originally found, leaned substantially toward the west.

View from the northeast showing the stone stood vertically in the position believed most likely prior to it being leaned toward the west.

View from above and north, showing the stone vertical and washed. Note the etched + on top.

View from the west, looking across the stone and east along County Road 900 North.

View from the south, showing the stone vertical and washed.

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

SECTION CORNER RECORD

NE 950-350

BOONE COUNTY SURVEYOR'S OFFICE

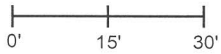
State Plane grid coordinates NAD83 (CORS96):
North: 1795964.36 East: 3142702.07 (U.S. survey feet)

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

Indiana tie card references:
IN02_T20NR1E15_40

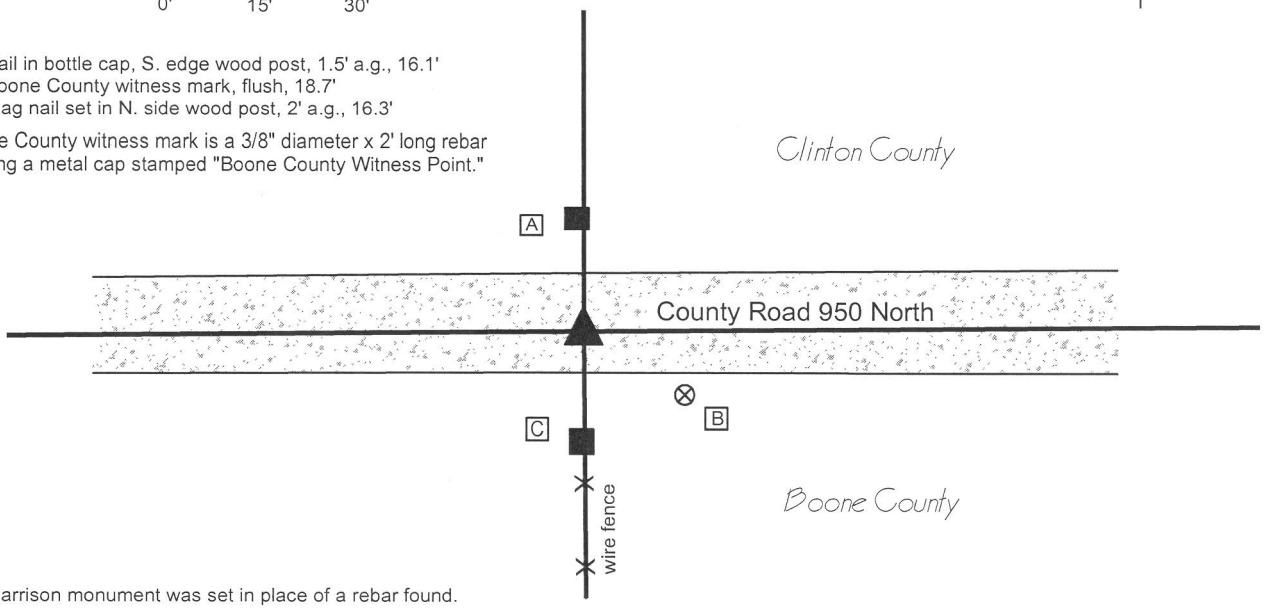
CORNER WITNESS DETAIL

SCALE 1" = 30'

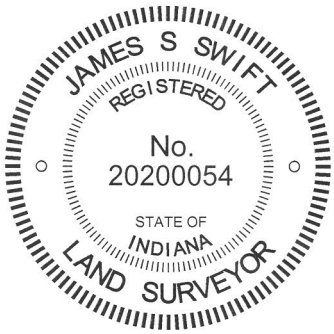


A - Nail in bottle cap, S. edge wood post, 1.5' a.g., 16.1'
B - Boone County witness mark, flush, 18.7'
C - Mag nail set in N. side wood post, 2' a.g., 16.3'

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



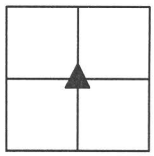
The Harrison monument was set in place of a rebar found.
This corner is not an original federal corner. The corner is shown in a record of November 15, 1846 in the BCS Surveyor's Record, though no specific description of the a monument is mentioned in that record. A later entry dated December 2, 1886 states "Center Sec. stone, 12,12,12, a cherry 10" bears...." A BCS tie card dated June 5, 1975 states "Stone Found - Set Rod."
This corner was excavated on August 21, 2014. Prior to excavation, a ½ inch diameter rebar was found at 3 inches deep in the gravel road. The rebar fit with the 1975 distance ties and is believed to be the 'rod' called for on that document. Excavation revealed a stone found 1.2 feet south and 2.8 feet west of the rebar. The stone was found at 2 inches deep and was measured to be 14 inches E-W by 12 inches N-S by 9 inches tall. The stone did not match the dimensions described in the 1846 record and was situated entirely within the fill material of the road bed, rather than being embedded in the clay layer below the road bed, as is typical of corner stones. The reference on the 1975 tie card of 'Stone Found - Set Rod' is interpreted to mean that a stone was found, removed and replaced with a rebar, as has been found to be the case at many other corners referenced by tie cards from that era for which the wording is similar. It is noted that the rebar fit well with the local evidence being in the approximate center of the east-west roadway, in line with the fence to the south and slightly east of the post to the north. Given the uncertainties with the stone found during excavation, being situated within the fill material and not matching the record dimensions, and given the harmony of the rebar with the ties and evidence, it was concluded most likely that the record stone was found in 1975, removed and replaced with the rebar. The rebar was accepted as providing the best available evidence of the corner. The found stone and rebar were both removed and the rebar was replaced with a Harrison monument set in the same horizontal position.



Kenneth E. Hedge, County Surveyor

James S. Swift, IN LS 20200054
March 27, 2015

Section 15
T20N, R1E

Kirklin Township
Clinton County

Clinton Township
Boone County