

PREPARED BY: BLACK HAWK COUNTY ENGINEERS OFFICE
316 E. FIFTH STREET, ROOM 211 WATERLOO, IOWA 50703

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SLSI 9-94
BHCO 03-09

UNITED STATES PUBLIC LAND SURVEY CORNER CERTIFICATE OF
Land Survey Monuments situated in Section 20, Township 88 N,
Range 13 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa.
Previously recorded in File Book N/A, Page N/A, in County Recorder's Office.
(Show reason for preparing this certificate): There is No Certificate for the corner on file with County Recorder, per
Ia. Code 355.11(1)(a).

(Evidence and detailed procedures used in establishing the corner position(s) and monumentation found or placed.)

Monument Description and Remarks: N. 1/4 COR.

CORNER REFERENCED AS PART OF BRIDGE REPLACEMENT PROJECT L-508--73-7, AS ORIG.
RECOVERED PER PRELIMINARY SURVEY (NOV. 2003, G.T.). UTILIZED PREV. RTK GPS
REFERENCE, AND EXCAVATED TO -0.35' DP. AND FND. STD. W.P.A. CONCRETE MONUMENT (AS
PREV. FOUND) ALIGNED ±1.5' WEST OF REMNANT FENCE LINES TO BOTH NORTH AND SOUTH.
CORNER LOCATION ALSO YEILDED A MAGNETIC SOUNDING SOURCE, PRIOR TO COVERING UP.
CORNER TIED TO UPDATE CORNER AS PART OF BRIDGE REPLACEMENT AND SECTION LINE
REFERENCE FOR PROJECT ALONG NORTH LINE OF N.W.1/4.

PLAN VIEW

"NOT TO SCALE"

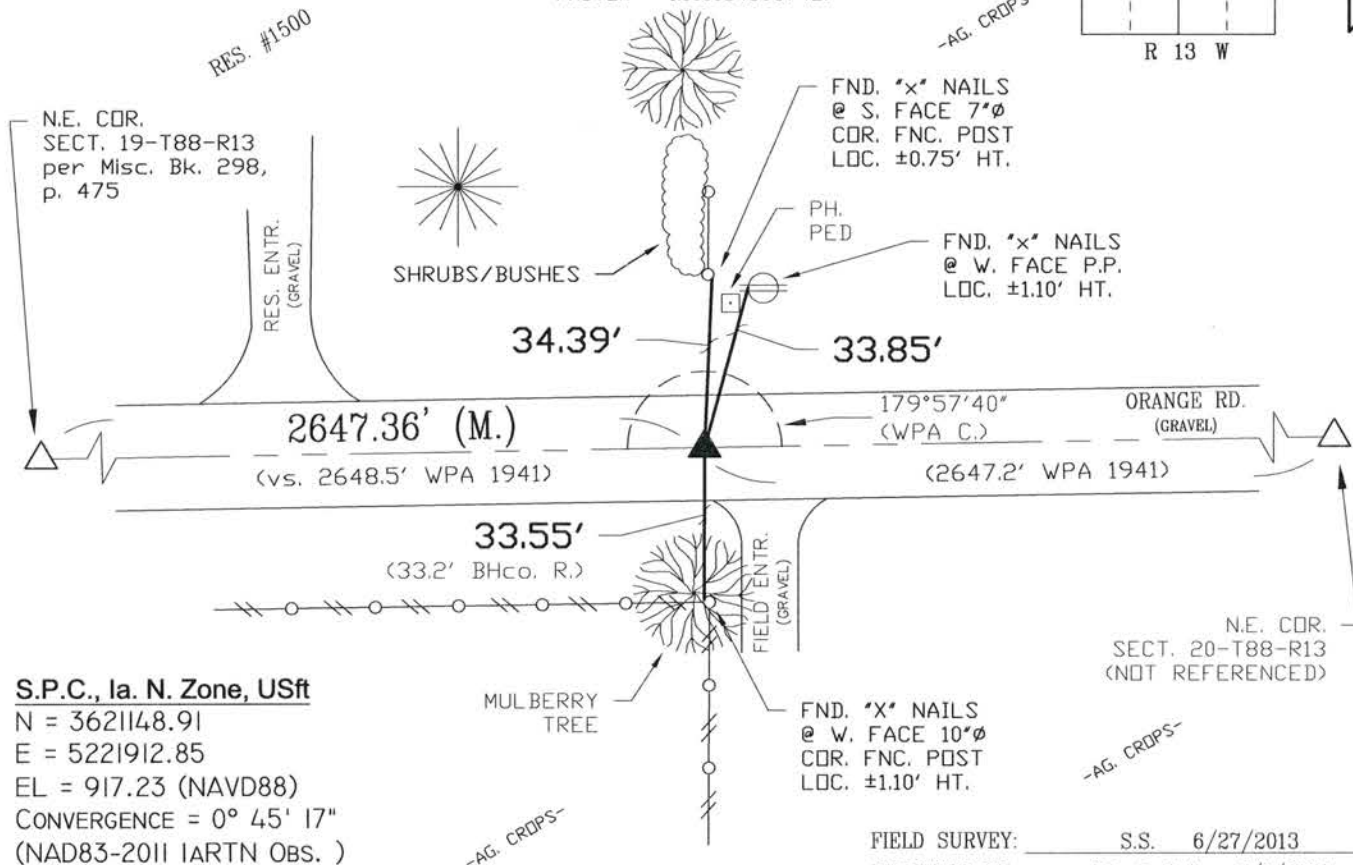
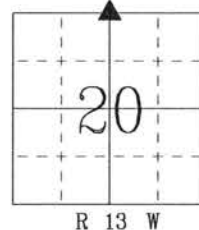
BHco Hist. Ties: BK. #1001 p.20 88-13

FIELD BOOK: Ties per Topcon 7003i #Z0115

(Show a minimum of three reference ties to durable physical objects, relevant monuments and physical conditions that will enable recovery of the corner.)

- 1.) TIES PER EDM MEASURE
IN NON-PRISM MODE, WHILE
UTILIZING "INDIRECT"
MEASURE, WITH ALL
DISTANCES PLUMB/HORIZ. (HD)

- 2.) SECTION LINE MEASURE
REFERS TO "LOCAL GROUND"
DIST. AND INCLUDES ELLIPSOIDAL
(COMBINED) SCALE FACTOR FROM
S.P.C. GRID INVERSE (AS
OBSERVED, PER AVG. SCALE
FACTOR = 1.000084596742)



CERTIFICATION

I hereby certify that this land surveying document was prepared and the related survey work was performed by me or under my direct personal supervision and that I am a duly licensed Land Surveyor under the laws of the State of Iowa.

Geoffrey Allen Tinker 07/01/2013
Geoffrey Allen Tinker (date)

License Number 15748

My license renewal date is December 31, 2014

Pages or sheets covered by this seal:

This Land Corner Certificate Only.

LIST CORNERS TO BE INDEXED

Corner	Section -	Township -	Range
N. 1/4 Cor.	20	88 N	13 W
S. 1/4 Cor.	17	88 N	13 W

INDEX OF ABBREVIATIONS

(M) = "Measured" Dimension	"NP" = Reflectorless EDM Meas.
(P) = "Platted" Dimension	"MLM" = Indirect Measure
(R) = "Record" Dimension	"CM" = Concrete Monument
(C) = "Calculated" Dimension	"SM" = Survey Marker Spike/Tag
"IGS" = Iowa Geodetic Survey	"PK" = PK/MAG Nail Brand Style
"WPA" = Works Progress Admin. Survey	
"Φ" = per George Miller Survey (BHco Surveyor 1858-1860)	
"B" = per John Ball Survey (BHco Surveyor 1866-1891)	
"N" = per Nathan Barber Survey (BHco Surveyor 1908-1931)	