

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 21, Township 90 N,
Range 14 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa.
Previously recorded in Fee Book 2005, Page 16203, in County Recorder's Office.

(Show reason for preparing this certificate): The corner monument has been Replaced or Modified, per Ia. Code 355.11(1)(c)

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

Monument Description and Remarks: N.E. COR. N.W. 1/4-S.W. 1/4;
PRIOR TO H.M.A. RESURFACING PROJ. (#STP-S-C007(106)--SE-07), FOUND 5/8" REBAR PER
CURRENT RECORD & TEMP. REF. PER RTK GPS. EXISTING A.C.C. MILLED -2", w/ FAINT
SOUNDING @ ± RTK REFERENCE LOCATION. AN ADDITIONAL SOUNDING EAST OF CORNER
YIELDED FOUND 16d NAIL @ 0.35' DP. LOCATED 0.85' EAST & 0.25' SOUTH OF RTK REF.
LOCATION (ASSUMED STRING LINE), w/RTK REF. CORNER LOCATION HELD AS RBR. FOUND.
RESURFACED w/ +4' H.M.A. (2" INT. & 2" SURF.). AFTER H.M.A. RESURFACE, RESET 5/8"x
±7"L. (#5) REBAR LOCATED @ ±0.70' EAST OF FINISHED A.C.C. C.L. PAVING JOINT.
DEFL. (CORNER) ANGLE DENOTED FOR 16th LINE TO N. & S. PER COGO OF RTK GPS MEAS.
CORNERS (AS OBSERVED). BH. CO. ENG. HIST. TIES NOT REFERENCED IN CURRENT RECORD.

PLAN VIEW

"NOT TO SCALE"

BHco Hist. Ties: BK. #1003 p. "G" T90-R14

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 EITHER PRISM
"OR" NON-PRISM MODE, WHILE UTILIZING
"INDIRECT" MEASURE, WITH ALL DISTANCES
PLUMB/HORIZ. (HD), UNLESS DENOTED.
- 2.) SECTION LINE MEASURE REFERS TO
"LOCAL GROUND" DISTANCE AND INCLUDES
ELLIPSOIDAL (COMBINED) SCALE FACTOR
FROM S.P.C. GRID INVERSE (AS OBSERVED),
PER AVG. SCALE FACTOR = 1.000092724798
FROM TopSURV@ V8.1 w/ORIGIN POINT @
GPS MON #90 NAD83(NSRS2007).
- 3.) R. = DENOTES "1962"
RECORD PLAN DISTANCE.
R. = DENOTES PREV.
CORNER CERT. MEASURE.

UTIL. FND.
"X" NAILS @
S.E. FACE P.P.

NE COR. STEEL
BASE PLATE
OF S. STEEL
POWER POLE.

179°48'26" (M.)

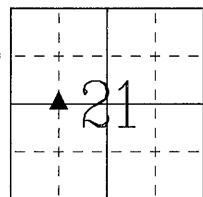
45.74'
(45.64' R.)

FIELD ENTR.
(GRAVEL)

2638.60' (M)
(vs. 2639.05' R.)

N. UNION RD.
(acc.)

W. 1/16th Cor. (N.)
SECT. 21-T90-R14
(per Updated Cert.)



(RES. #5532)

SET PK w/MTL.
WASHER @ S-S.E.
FACE PINE TREE.

WOOD FNC.

42.80'

44.53'
(44.63' R.)

UTIL. FND. 2"Ø PIPE
@ TOP STONE CORNER
POST (TO C.L. PIPE).

REFERENCE TIE NOTE:
PREV. CO. ENG. HISTORICAL TIES
WERE NOT "SPECIFICALLY" REFERENCED
AS "SAME", PER CURRENT CORNER TIE
RECORD. REFER TO BHco HISTORICAL
TIE REFERENCE FOR FURTHER RECORD.

W. 1/16th Cor. (N.)
SECT. 28-T90-R14
(per Updated Cert.)

FIELD SURVEY: G.T. & S.S. 9/29/11

PREPARED BY: S.S. & G.T. 11/2/11

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.

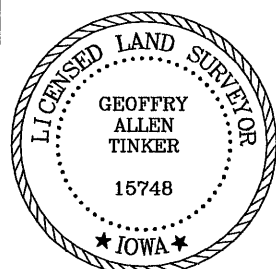
Geoffrey Allen Tinker 11/02/2011
Geoffrey Allen Tinker (date)

License Number 15748

My license renewal date is December 31, 2012

Pages or sheets covered by this seal:

This Land Corner Certificate Only.



LIST CORNERS TO BE INDEXED

Corner	Section	Township	Range
N.E. Cor.	21	90 N	14 W
NW1/4-SW1/4			
= C.W. 1/16th	21	90 N	14 W

INDEX OF ABBREVIATIONS

(M) = "Measured" Dimension
(P) = "Platted" Dimension
(R) = "Record" Dimension
(C) = "Calculated" Dimension
"IGS" = Iowa Geodetic Survey
"WPA" = Works Progress Admin. Survey
"q" = 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)
"NP" = Reflectorless EDM Meas.
"MLM" = Indirect Measure
"CM" = Concrete Monument
"SM" = Survey Marker Spike/Tag
"PK" = PK/MAG Nail Brand Style