

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 28, Township 90 N,  
Range 14 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa.  
Previously recorded in Misc Book N/A, Page N/A, 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.)

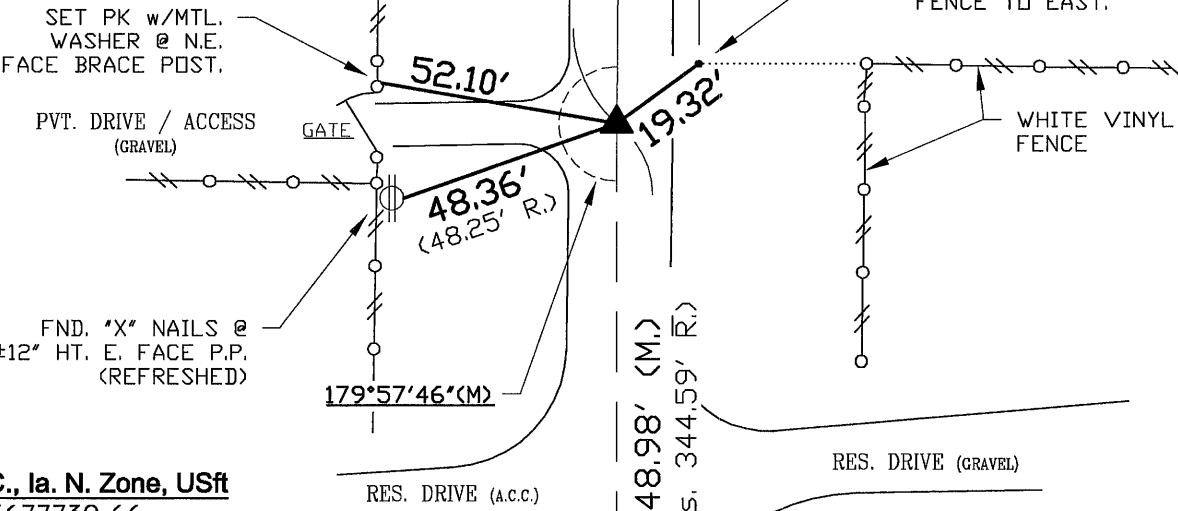
Monument Description and Remarks: N.E. COR. N.W.1/4-N.W.1/4;  
PRIOR TO H.M.A. RESURFACING PROJ. (#STP-S-C007(106)--5E-07), FOUND 1/2" REBAR &  
TEMP. REF. PER RTK GPS. NO CURRENT PLS CORNER CERT. OF RECORD, WITH ONE B.H.  
CO. ENG. HISTORICAL TIE REMAINING. EXIST. A.C.C. MILLED -2", w/SOUNDING @ ±ORIG.  
RTK REF. LOC., AND EXCAVATED TO ±3" DP. & FOUND #4 (1/2") REBAR w/TOP TWISTED  
& SHEARED, THEN REMOVED STUB REBAR. RESURFACED w/+4" (2" INT. & 2" SURF.) H.M.A.  
PAVING. AFTER HMA RESURFACE, RESET 5/8"x±7"L. (#5) REBAR LOCATED @ ±0.70' EAST  
OF C.L. PAVING JOINT AND ALIGNED WITH ± CENTERLINE OF PRIVATE DRIVE TO WEST.  
DEFL. (CORNER) ANGLE DENOTED FOR 16th LINE TO NORTH AND C.L. P.I. GEOM.  
TO SOUTH PER COGO OF RTK GPS MEAS. CORNERS (AS OBSERVED).

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.)

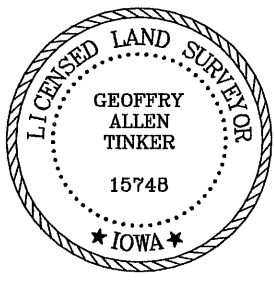
- 1.) TIES PER EDM MEASURE IN EITHER PRISM "OR" NON-PRISM MODE, WHILE UTILIZING "INDIRECT" MEASURE, WITH ALL DISTANCES PLUMB/HORIZ. (HD), UNLESS DENOTED.
- 2.) SECTION LINE MEASURE REFERS TO "LOCAL GROUND" DISTANCE AND INCLUDES ELLIPSOIDAL (COMBINED) SCALE FACTOR FROM S.P.C. GRID INVERSE (AS OBSERVED),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



S.P.C., Ia. N. Zone, USft  
N = 3677739.66  
E = 5187984.09  
GRID SCALE FACTOR = 0.99994641  
CONVERGENCE = 0° 40' 17"  
(NAD83-NSRS2007 "BHco07", RTK OBS.)

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 (date)  
Geoffrey Allen Tinker  
License Number 15748  
My license renewal date is December 31, 2012  
Pages or sheets covered by this seal:  
#1 AND #2 of this Corner Cert. Only.

LIST CORNERS TO BE INDEXED

Corner	Section -	Township -	Range
N.E. Cor.	28	90 N	14 W
NW1/4-NW1/4			
=W. 1/16th (N.)	28	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  
"G" = 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

