

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 19, Township 87 N,  
Range 11 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa.  
Previously recorded in Misc Book 342, Page 587, 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.)

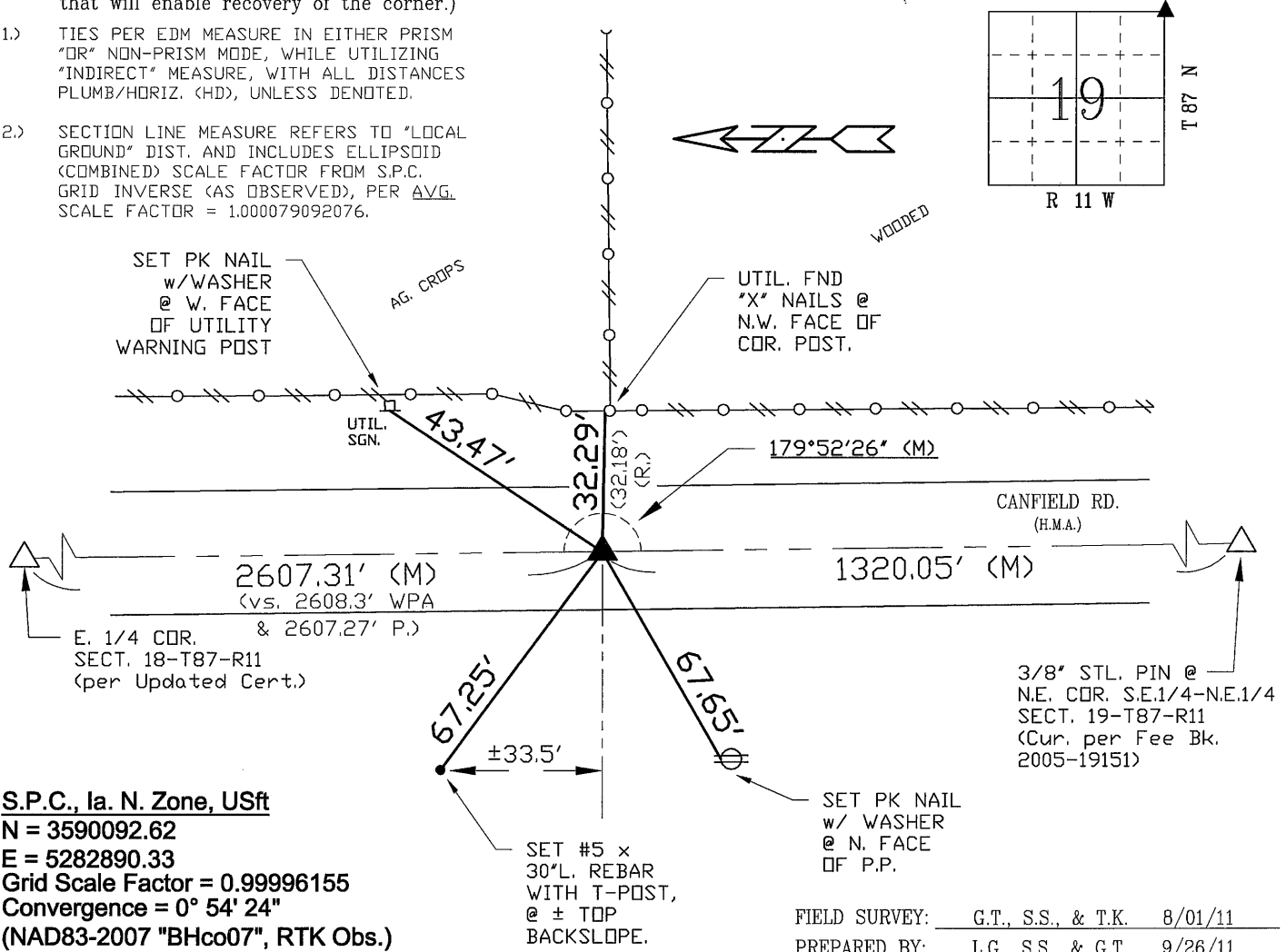
Monument Description and Remarks: **N.E. CORNER:**  
CORNER RESET FOR COLD-IN-PLACE RECYL. & H.M.A. RESURF. PROJECT LFM-121--7X-07.  
PRIOR TO RESURF. PROJECT, FOUND 5/8" REBAR PER CURRENT RECORD AND TEMP. REF.  
COR. LOCATION PER RTK GPS. AFTER 4" DEEP MILL (RECYCLE), REMOVED #5 REBAR x 6"L.  
LAYING ON SIDE & EXCAVATED TO -0.50' DEEP WITH NO SOUNDING REMAINING & NO  
FURTHER EXCAVATION. PVMT. RESURFACED w/ +3" H.M.A. SURFACE COURSE, THEN RESET  
CORNER w/ 5/8" (#5) x 6"L. REBAR @ ±0.08' EAST OF C.L. H.M.A. JNT. AND LOCATED ±1'  
NORTH OF EXISTING FENCE TO EAST. DELF. (CORNER) ANGLE DENOTED FOR SECTION LINE  
TO N./S. PER COGO OF RTK GPS MEAS. CORNERS (AS OBSERVED). R.O.W. FENCE WEST  
REMOVED & UTILITY POLES ALONG WEST R.O.W. UPDATED SINCE PREV. RECORD.

PLAN VIEW  
"NOT TO SCALE"

BHco Hist. Ties: BK. #1000 p. 19 T87-R11  
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.)

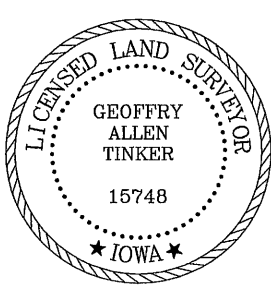
- 1.) TIES PER EDM MEASURE IN EITHER PRISM "OR" NON-PRISM MODE, WHILE UTILIZING "INDIRECT" MEASURE, WITH ALL DISTANCES PLUMB/HORIZ. (HD), UNLESS DENOTED.
- 2.) SECTION LINE MEASURE REFERS TO "LOCAL GROUND" DIST. AND INCLUDES ELLIPSOID (COMBINED) SCALE FACTOR FROM S.P.C. GRID INVERSE (AS OBSERVED), PER AVG. SCALE FACTOR = 1.000079092076.



S.P.C., Ia. N. Zone, USft  
N = 3590092.62  
E = 5282890.33  
Grid Scale Factor = 0.99996155  
Convergence = 0° 54' 24"  
(NAD83-2007 "BHco07", RTK Obs.)

FIELD SURVEY: G.T., S.S., & T.K. 8/01/11  
PREPARED BY: L.G., S.S., & G.T. 9/26/11

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* 9/26/2011  
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.	19	87 N	11 W
N.W. Cor.	20	87 N	11 W
S.E. Cor.	18	87 N	11 W
S.W. Cor.	17	87 N	11 W

INDEX OF ABBREVIATIONS

(M) = "Measured" Dimension  
(P) = "Platted" Dimension  
(R) = "Record" Dimension  
(C) = "Calculated" Dimension  
(G) = 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