

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

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SLSI 9-94
CERT 03-09

UNITED STATES PUBLIC LAND SURVEY CORNER CERTIFICATE OF
Land Survey Monuments situated in Section 31, Township 89 N,
Range 11 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa.
Previously recorded in Fee Book 2004, Page 21616, 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: S.E. COR. FOUND $\pm 2\frac{1}{2}$ " ϕ ALUM. CAP STABLE IN
ACC CORE HOLE (± 5 " Dp. ACC OVERLAYED PCC PAVEMENT), PER CURRENT RECORD. DOWN
 ± 5 " Dp. TO PCC PVM'T. & FOUND LEAD PLUG IN PCC SLAB. TEMP. REF. CORNER w/RTK
GPS (TWO LINE w/WT. AVG.), AND MILLED 2" EXIST. ACC OVERLAY & ADDED 5" H.M.A.
OVERLAY. 1955 PAVING PLANS DETAILED FOR HISTORICAL REFERENCE. CORNER RESET
WITH #5 (5/8") $\times$ ± 7 " L. REBAR PER RTK GPS REF., AND RETIED FOR RECORD. CORNER
LOCATED $\pm 1.5'$ NORTH OF NEW C.L. PAVING JOINT & ALIGNED WITH C.L. ($\pm$) OF SIDE ROAD
TO NORTH.

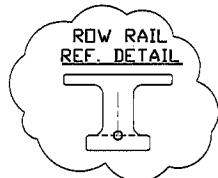
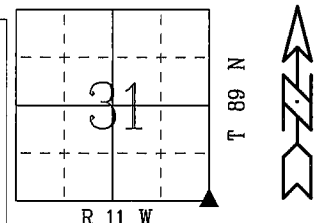
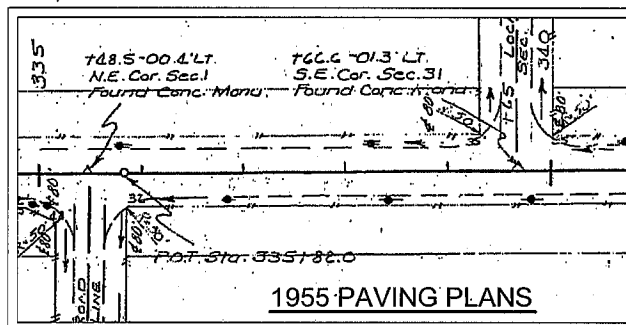
NOTE: ALL DISTANCES PLUMB/HORIZ.
(H.D.), "UNLESS DENOTED".

PLAN VIEW

BHco Hist. Ties: BK. #1002 p.31 89-11
FIELD BOOK: BHco. #488 p.45 (#1005)

(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 PRISM
AND NON-PRISM MODE, WHILE
UTILIZING "INDIRECT" MEASURE.
- 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 = 1.0000892480663)
- 3.) IDOT = (IA. D.O.T.) 1955 PAVING
PLAN #1049(1) REFERENCE.



EST. MAG NAIL
w/WASHER @
S. FACE P.P.
LOC. 30" HT.

S.P.C., Ia. N. Zone, USft
N=3636602.532'
E=5277563.735'
(NAD83-2007 "BHco07", RTK Obs.)

4"x4" CONCRETE
MONUMENT w/NO.4
REBAR (TYP.) LOC.
@ +/- 2' S. OF
R.O.W. FNC.

UTIL. FND.
R/W RAIL

S. PILOT GROVE RD.
(GRAVEL)

GPS MON
#94-066

2640.41' M.
(2642.8' IDOT)

S. 1/4 SECT.
31-T89-R11
Per Update

N.E. COR. SECT.
01-T88-R12,
Per Update

417.65'
(417.7' WPA)

179°55'15" (M)
(SOUTH LINE'S OF
1/4, SECT.'s 31 & 32)

2644.45' M.
(2645.1' IDOT)

DUBUQUE RD.
-D22- (A.C.C.)

C.L. RD.
GEOM.

S. 1/4 SECT.
32-T89-R11,
Per Update

FIELD SURVEY: G.T. & J.Z. & D.B. 06/23/09
PREPARED BY: G.T. & J.Z. & D.B. 9/23/09

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 09/23/2009
(date)

License Number 15748

My license renewal date is December 31, 2010

Pages or sheets covered by this seal:

This Land Corner Certificate Only.

LIST CORNERS TO BE INDEXED

Corner	Section -	Township -	Range
S.E. Cor.	31	89 N	11 W
S.W. Cor.	32	89 N	11 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