

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

PH.# (319) 833-3008
FAX.# (319) 833-3139
SLSI 9-94
BHCO 03-09

UNITED STATES PUBLIC LAND SURVEY CORNER CERTIFICATE OF
Land Survey Monuments situated in Section 35, Township 89 N,
Range 12 W, of the Fifth Principal Meridian, BLACK HAWK County, Iowa.
Previously recorded in FILE 2012, Page 04494, in County Recorder's Office, "AND"
Previously recorded in MISC. Book 344, Page 026, 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. (Not Disturbed)
CORNER CERT. REFILED DUE TO ACCESSORY MONUMENT (POINT ON SEMI TANGENT / P.O.S.T.)
BEING RESET & TIES UPDATED PER H.M.A. RESURFACE PROJECT FM-C007(140)--55-07.
PRIOR TO RESURF. PROJECT, FOUND PER ORIG. COR. CERT. (MISC. 344 p.026) & TEMP. REF.
P.O.S.T. PER RTK GPS. AFTER 2.5' DP. MILL, NO SOUNDING REMAINED @ ±RTK REF. LOC. w/
NO FURTHER EXCAVATION. PVMT. RESURFACED w/+4" (2" INT. & 2" SURF.) H.M.A. PAVING.
AFTER H.M.A. RESURFACE, RESET P.O.S.T. WITH 6"L. MAG SPIKE w/ MTL. WASHER (NO PLS ID)
@ ±5.6' EAST OF C.L. H.M.A. JOINT. P.I. CURVE DATA PER RTK REF. LOCATIONS (GRND.), w/
CURVE #2 UTIL. FND. EXIST, & CURVE #3 RESET SAME AS P.O.S.T. IN HMA ENTR. FILLET.

PLAN VIEW

"NOT TO SCALE"

BHco Hist. Ties: BK. #1002 p.35 89-12
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), UNLESS DENOTED.
- 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 = 1.000088014364x

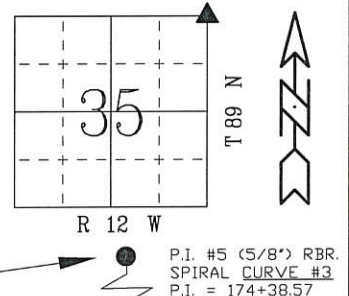
Curve #3 Data: (Local Ground

Coord.'s from 94-059R/Lowered)

ID	Station	Northing	Easting
SC:	172+02.86	3643117.833	5266802.881
CS:	176+73.675	3643585.513	5266751.306

Circular Curve Data

Delta:	07°03'42"	Type: LEFT
Radius:	3820.00'	
Length:	470.81'	
Tangent:	235.71'	
Chord:	470.52' @ N 06°17'35" W	



Curve #2 Data: (Local Ground Coord.'s, per #3)

ID	Station	Northing	Easting
SC:	155+04.28	3641420.990	5266803.982
CS:	160+08.34	3641923.751	5266834.668

Circular Curve Data

Delta:	07°33'37"	Type: LEFT
Radius:	3820.00'	
Length:	504.06'	
Tangent:	252.40'	
Chord:	503.70' @ N 03°29'34" E	

N.E. COR. 35-T89-R12
#4 RBR. w/ Y.P.C. #8580
in H.M.A. Pvmt. per
Cert. File 2012-04494
& Misc. Bk. 344 p.026
(Not Impacted)

OSAGE RD.
(H.M.A.)

N.E. COR.
CONC. BLDG.
CORNER (R.)

N.E. CORNER
S.P.C., Ia. N. Zone, USft (sFT)
N=3641814.73'
E=5266672.41'
(NAD83-NA2011, IaRTN RTK Obs.)

UTIL. FND. S.M.
SPK. E-NE FACE
P.P. @ ±2' HT.

RAYMOND RD.
(C.L. CURVE) - H.M.A. -
(TANGENT)

RAYMOND RD.
(C.L. CURVE) - H.M.A. -
(TANGENT)

RAYMOND RD.
(C.L. CURVE) - H.M.A. -
(TANGENT)

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(C.L. CURVE) - H.M.A. -
(TANGENT)

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RAYMOND RD.
(C.L. CURVE) - H.M.A. -
(TANGENT)

RAYMOND RD.
(C.L. CURVE) - H.M.A. -
(TANGENT)

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 07/18/2016
Geoffrey Allen Tinker (date)

License Number 15748

My license renewal date is December 31, 2016

Pages or sheets covered by this seal:

This Land Corner Certificate Only.

LIST CORNERS TO BE INDEXED

Corner	Section -	Township -	Range
N.E. Cor.	35	89 N	12 W
N.W. Cor.	36	89 N	12 W
S.E. Cor.	26	89 N	12 W
S.W. Cor.	25	89 N	12 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
"o" = 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