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File 2010-0005153

BLACK HAWK COUNTY ENGINEERS OFFICE 316 E. FIFTH STREET, ROOM 211 WATE PH.# (319) 833-3008 FAX.# (319) 833-3139 SLSI 9-94 BHCO 03-09 PREPARED BY: WATERLOO, IOWA 50703 UNITED STATES PUBLIC LAND SURVEY CORNER CERTIFICATE OF Land Survey Monuments situated in Section 28 , Township 89 N Range  $11 \ \text{W}$ , of the Fifth Principal Meridian, <u>BLACK HAWK</u> County, Iowa. Previously recorded in MISC. Book  $\bar{N}/A$ , 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 CORI CORNER PREV. REFERENCED PER PLS. #8812 IN "UNRECORDED" CORNER CERT. (AS SHOWN) DATED 5-2-94, PER S.E. COR. SECTION 21, BEING "Fd. 5/8" I.P. IN ACC ROADWAY". PRIOR TO RESURF. PROJECT, FOUND #5 (5/8") REBAR @ ± C.L. INTERSECTION WITH SIDERDAD (N-S, NESBIT RD.), AND TEMP. REFERENCED PER REASONE. VERIFIED RECORD TIES (UNRECORDED), AS SHOWN, REFERENCED PER RTK GPS MEASURE. VERIFIED RECORD TIES (UNRECORDED), AS SHOWN, BEING ±, THEN MILLED 2" EXISTING ACC PVM'T. AND ADDED 3" HMA RESURFACING. PREV. TIES DESTROYED DUE TO NEW RCP STRUCTURE N. SIDE OF INTERSECTION AND POWER POLE RELOCATION(S). RESET 5" SPIKE W/WASHER @ ±0.3' SOUTH OF C.L. NEW HMA PAVING JOINT, AND RETIED FOR RECORD. 8" OF PCC PVM'T. REMAINS UNDER 6" ACC OVERLAY, WITH LEAD PLUG NOTED AS SET IN 1960, PER BHCO. HIST. TIES DTD. BHco Hist. Ties: <u>BK. #1002 p.28 89-11</u> PLAN VIEW FIELD BOOK: Topcon 7i Std. Meas. "NOT TO SCALE" (Show a minimum of three reference ties to durable physical objects, relevant monuments and physical conditions that will enable recovery of the corner.) PLS #8812 REF. TIES "UNRECORDED" RP dtd. 5-2-94. 83 SE Comer Sec 21-89-11 Fd <sup>88</sup>8" 1.P. in ACC Roadway R 11 W EST. MAG NAIL 36"X36' R.C.P EST. MAG NAIL w/WASHER @ w/WASHER @ S. FACE P.P. S.E. FACE P.P. 178°34′34"(M) N.% CORNER 28-T89-R11, N.¼ CORNER 27-T89-R11, Per Undate. INDEPENDENCE AVE. (D20) Per Update (A.C.C.) 2629,00' M. (2627.9' WPA) 2666.17′ Μ. (2666.08' (Ř.) <u>vs.</u> 2665.0' WPA) TIES PER EDM MEASURE IN EITHER PRISM "DR" NON-PRISM MODE, WHILE UTILIZING "DIRECT" MEASURE, WITH ALL DISTANCES PLUMB/HORIZ. (HD), 1.) 24"X40' R.C.P UNLESS DENDTED. (Ř.) DENOTES RECORD RTK GPS MEASURE WITHOUT (w/o) ELIPSOID FACTOR APPLIED. ( $\pm 1.000040661 \times = \pm M.$ ) SECTION LINE MEASURE REFERS TO "LOCAL GROUND" DIST. AND INCLUDES ELLIPSDIDAL (COMBINED) SCALE FACTOR FROM S.P.C. GRID INVERSE (AS OBSERVED, PER AVG. SCALE FACTOR = 1.0000909055624 EST. CUT "X" <sub>.ω1</sub>Γ RD, -gravel-R.C.P. (TYP.) VESBIT S.P.C., Ia. N. Zone, USft N=3647228.534' FIELD SURVEY: \_ E=5287817.138' G.T./J.Z./D.B. 06/01/09 (NAD83) "BHco1994 Net Adj.", RTK Obs.) <u>CERTIFICATION</u>

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PREPARED BY:	J.Z.	& G.T. 9/9	/09
LIST CORNERS TO BE INDEXED			
<u>Corner</u>	Section -	<u>Township</u>	- <u>Range</u>
N.E. Cor.	28	89 N	11 W
N.W. Cor.	27	89 N	11 W
S.E. Cor.	21	89 N	11 W
S.W. Cor.	22	89 N	11 W
INDEX OF ABBREVIATIONS			
(M) = "Measured" Dimension "NP" = Reflectorless EDM Meas.  (P) = "Platted" Dimension "MLM" = Indirect Measure			
(P) = "Platted" Dimension "MLM" = Indirect Measure   (R) = "Record" Dimension "CM" = Concrete Monument   (C) = "Calculated" Dimension "SM" = Survey Marker Spike/Tag			
C) = "Calculated" Dimension "SM" = Survey Marker Spike/Tag "IGS" = Iowa Geodetic Survey "PK" = PK/MAG Nail Brand Style			
"WPA" = Works Progress Admin. Survey			
"p" = 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)			