

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
 THE SIDWELL COMPANY
 WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
 COUNTY ENGINEER
 DICKINSON COUNTY, IOWA

DESIGNATION 993703 4 GPS NO. 8021 COUNTY DICKINSON STATE IOWA
 LOCATED IN SECTION 3 TWP 99 N RANGE 37 W USGS QUAD MAP OKOBOJI
 THE STATION IS
 AT THE SOUTHEAST CORNER OF THE INTERSECTION BETWEEN 190TH AVENUE AND HIGHWAY 9.

MARK BERNTSEN MONUMENT WITH 2-1/2" ALUMINUM DISK ON ROD WITH 6" ACCESS COVER

MARK EXISTING VALUES AS PUBLISHED BY
 MARK SET VALUES ESTABLISHED BY Patrick Engineering Inc. DATE August, 2002

HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

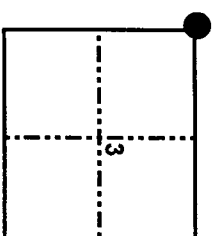
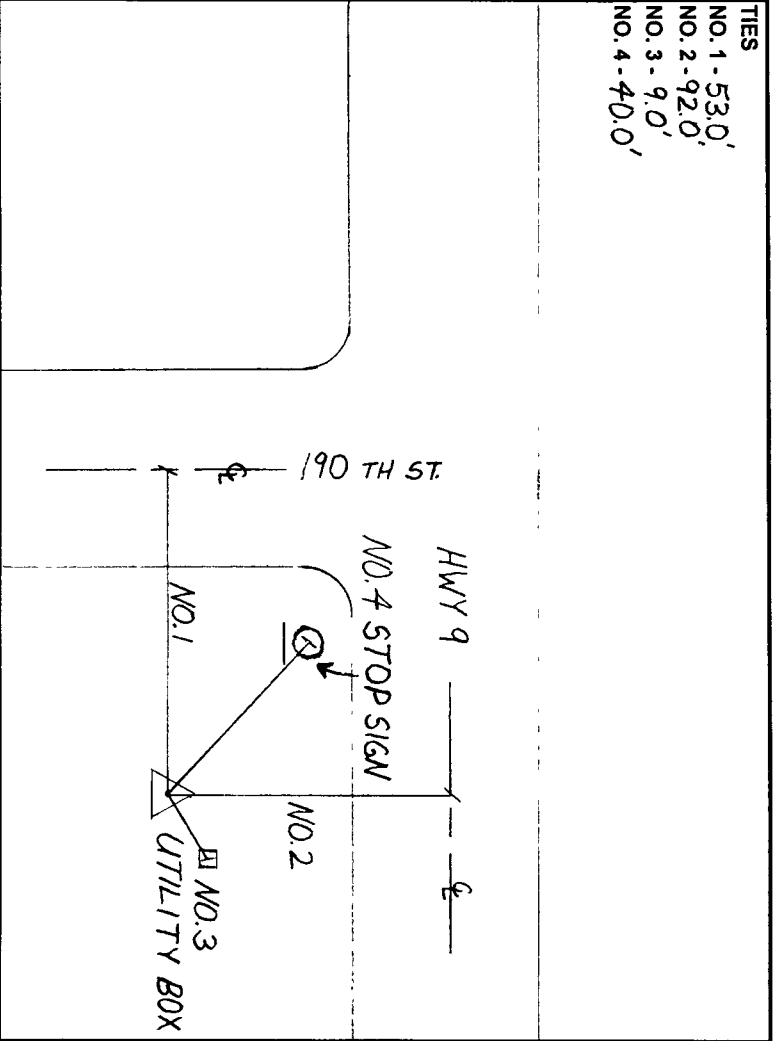
LATITUDE NORTH 43° 25' 48.834739"
 LONGITUDE WEST 95° 12' 36.461274"
 ELLIPSOID HEIGHT (meter) 423.996 * (Based on GEOID99 Model)

IOWA COORDINATE SYSTEM, NORTH ZONE
 CONVERGENCE ANGLE -1° 09' 32.51"
 SCALE FACTOR 0.999968
 COORDINATES (US FEET)
 NORTHING (Y) 3988885.99 COORDINATES (METERS)
 EASTING (X) 4466973.02 NORTHING (Y) 1215814.881
 EASTING (X) 1361536.100

VERTICAL VALUES ORIGINATED ON VERTICAL CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND/OR THE U.S. GEOLOGICAL SURVEY AND BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ELEVATION (US FEET) 1481.97 ELEVATION (METERS) 451.705

TIES
 NO. 1 - 53.0'
 NO. 2 - 92.0'
 NO. 3 - 9.0'
 NO. 4 - 40.0'



SECTION MAP

SKETCH BY CCS
 PATRICK 09-2002