

GPS SURVEY MARK DESCRIPTION

GIS MAPPING BY:
 THE SIDWELL COMPANY
 WEST CHICAGO, ILLINOIS

THE OFFICE OF THE
 COUNTY ENGINEER
 DICKINSON COUNTY, IOWA

DESIGNATION 993604 2 GPS NO. SPIRIT LAKE 1 COUNTY DICKINSON STATE IOWA
 LOCATED IN SECTION 4 TWP 99 N RANGE 36 W USGS QUAD MAP SPIRIT LAKE
 THE STATION IS
 LOCATED DUE EAST OF THE INTERSECTION BETWEEN 23RD STREET AND LINCOLN AVENUE IN THE CITY OF SPIRIT LAKE.

MARK BERNTSEN MONUMENT WITH 3-1/4" 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

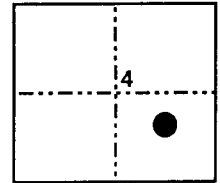
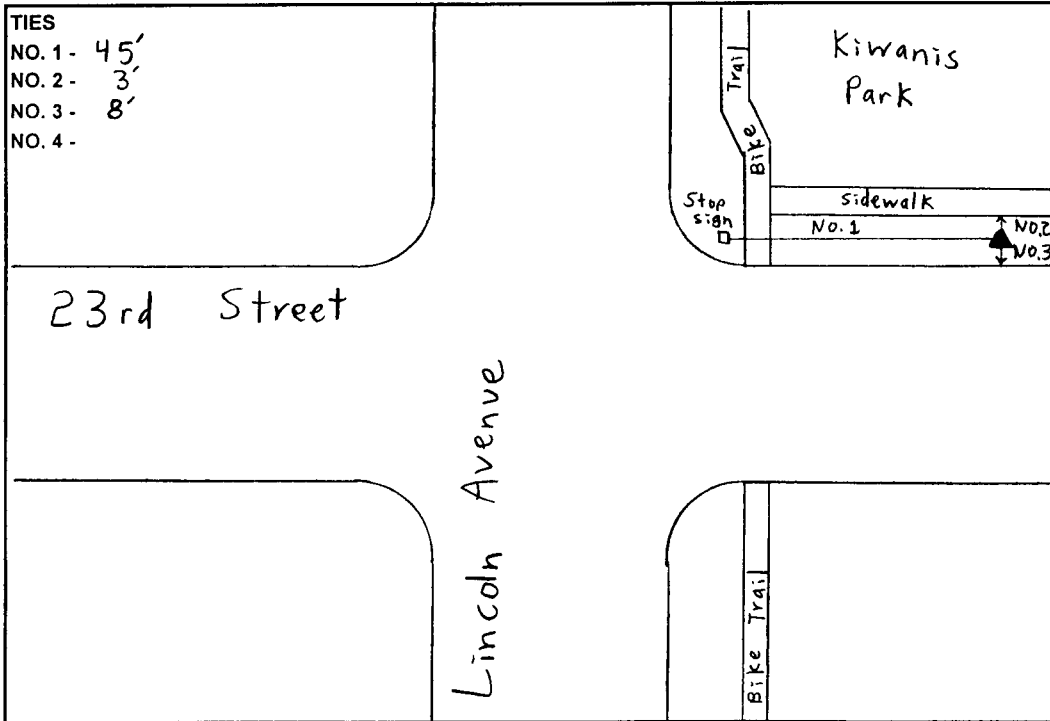
HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

LATITUDE NORTH 43° 25' 06.295339"
 LONGITUDE WEST 95° 06' 24.864126"
 ELLIPSOID HEIGHT (meter) 420 601 * (Based on GEOID99 Model)

IOWA COORDINATE SYSTEM, NORTH ZONE	CONVERGENCE ANGLE	<u>-1° 05' 20 66"</u>
	SCALE FACTOR	<u>0 999965</u>
COORDINATES (US FEET)	COORDINATES (METERS)	
NORTHING (Y) <u>3984041.54</u>	NORTHING (Y) <u>1214338 290</u>	
EASTING (X) <u>4494307.40</u>	EASTING (X) <u>1369867 635</u>	

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) 1471.46 ELEVATION (METERS) 448 502



SECTION MAP



SKETCH BY SL

PATRICK 09-2002