

**GPS SURVEY MARK DESCRIPTION**

GIS MAPPING BY:  
 THE SIDWELL COMPANY  
 WEST CHICAGO, ILLINOIS

THE OFFICE OF THE  
 COUNTY ENGINEER  
 DICKINSON COUNTY, IOWA

DESIGNATION 1003628 2 GPS NO. A 20 COUNTY DICKINSON STATE IOWA  
 LOCATED IN SECTION 28 TWP 100 N RANGE 36 W USGS QUAD MAP SPIRIT LAKE  
 THE STATION IS  
 AT THE SOUTHEAST CORNER OF THE INTERSECTION BETWEEN 252ND AVENUE AND 140TH STREET

MARK STANDARD DISK, STAMPED A 20, 1934; TOP OF CONCRETE POST, FLUSH WITH THE GROUND  
 MARK EXISTING  VALUES AS PUBLISHED BY National Geodetic Survey (Vertical)  
 MARK SET  VALUES ESTABLISHED BY Patrick Engineering Inc (Horizontal) DATE August, 2002

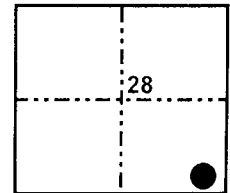
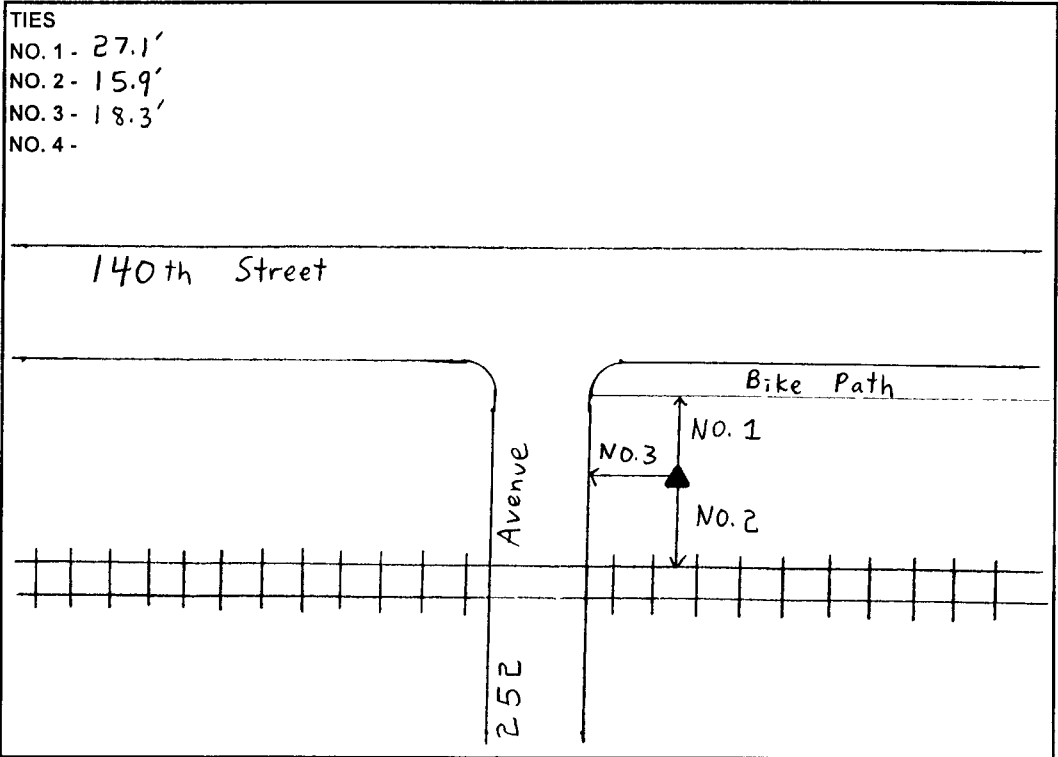
HORIZONTAL VALUES ORIGINATED ON ORDER "B" IOWA HIGH ACCURACY REFERENCE NETWORK (HARN) CONTROL ESTABLISHED BY THE NATIONAL GEODETIC SURVEY AND BASED ON THE NORTH AMERICAN DATUM OF 1983, 1996 ADJUSTMENT.

LATITUDE NORTH 43° 26' 44.889460"  
 LONGITUDE WEST 95° 05' 40.162395"  
 ELLIPSOID HEIGHT (meter) 402.963 \* (Based on GEOID99 Model)

IOWA COORDINATE SYSTEM, NORTH ZONE		CONVERGENCE ANGLE	<u>-1° 04' 50 36"</u>
		SCALE FACTOR	<u>0 999974</u>
COORDINATES (US FEET)		COORDINATES (METERS)	
NORTHING (Y)	<u>3993960 41</u>	NORTHING (Y)	<u>1217361 568</u>
EASTING (X)	<u>4497794 43</u>	EASTING (X)	<u>1370930 484</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) 1413.40 ELEVATION (METERS) 430 805



SECTION MAP



SKETCH BY SL

PATRICK 09-2002