

MISSOURI GEOGRAPHIC REFERENCE SYSTEM

MISSOURI DEPARTMENT OF NATURAL RESOURCES

DIVISION OF GEOLOGY AND LAND SURVEY

LAND SURVEY PROGRAM

PO Box 250, Rolla, Missouri 65402, (573) 368-2300

STATION NAME: Krug Ecc

PID: AD9796

COUNTY: Buchanan

STATE: Missouri

TOWNSHIP: 58 NORTH, RANGE: 35 WEST, SECTION: S 1/2 of 32

USGS 7.5' QUAD: St. Joseph North

DATE MONUMENTED: 1993

MONUMENTED BY: MODNR

TECHNICAL DATA TABLE:

(All data in meters 1 meter = 3.28083333 feet)

HORIZONTAL: NAD 1983**VERTICAL:** NAVD 1988

DATE OF OBSERVATIONS: 1993

DATE OF OBSERVATIONS: 1993

DATE OF ADJUSTMENT: 2000

DATE OF ADJUSTMENT: 2000

ORDER: 1st

ORDER:

LATITUDE: 39°47'49.38466"

ELEVATION: 325.1

LONGITUDE: 94°51'09.56697"

ELLIPSOID HEIGHT: 293.24

MISSOURI COORDINATE SYSTEM 1983:

NORTH (Y): 402994.786

EAST (X): 819797.994

ZONE: West

CONVERGENCE: -00°13'33"

GRID FACTOR: .9999064

AZIMUTH INFORMATION:

STATION: Krug Ecc

AZIMUTH MARK:

GEODETTIC:

ASTRONOMIC: None established at this time

GRID:

REMARKS

The HORIZONTAL POSITION was determined by GPS observations and adjusted by the National Geodetic Survey in February 2000.

The ELEVATION was determined by GPS observations.

The ELLIPSOID HEIGHT was determined by GPS observations referenced to NAD83.

GEOID 99 was used in determining ELEVATION and ELLIPSOID HEIGHT.

STATION: Krug Ecc.

DESCRIPTION: The station is a copperweld with a brass plate. The copperweld has a length of 30 inches.

STATION, AZIMUTH MARKS AND REFERENCE TIES: The station is located in the southwest part of Krug Park in St. Joseph, MO and to be found in the northwest angle of the intersection of park drive with a connection (via a lock gate) to 5th Street Terrace. It is 12 feet north of a cut + on curb; 118.5 feet northeast of station Krug; 83.8 feet northeast of the southeast corner of the south brick gate post; 74.3 feet east of the southeast corner of the north brick gate post and 21.2 feet west of a light pole.

Station Krug is 67.0 feet northeast of RM #2; 32.5 feet east of the center of 5th Street Terrace; 49.5 feet southwest of the southwest corner of the south brick gate post; 1.5 feet west of a chainlink fence and 35.2 feet northwest of a cut cross on curb.

RM#2 is 14 feet west of the center of 5th Street Terrace; 21.0 feet east of the southeast corner of house #3500 and 31.0 feet south-southeast of the northeast corner of the same house.

STATION & AZIMUTH MARK TO REACH: To reach the station from the intersection of US Highway 59 (St. Joseph Avenue) with Missouri Route K in the northwest part of St. Joseph, Mo. Go south on US Highway 59 for 1.1 mile to the entrance to Krug Park. Turn right and go west for 0.15 mile to traffic circle and beginning of one-way drive through park. Turn right and follow park drive for 0.75 mile to a junction with an access road to 5th Street Terrace on the right (west) side and the station in the northwest angle as described.

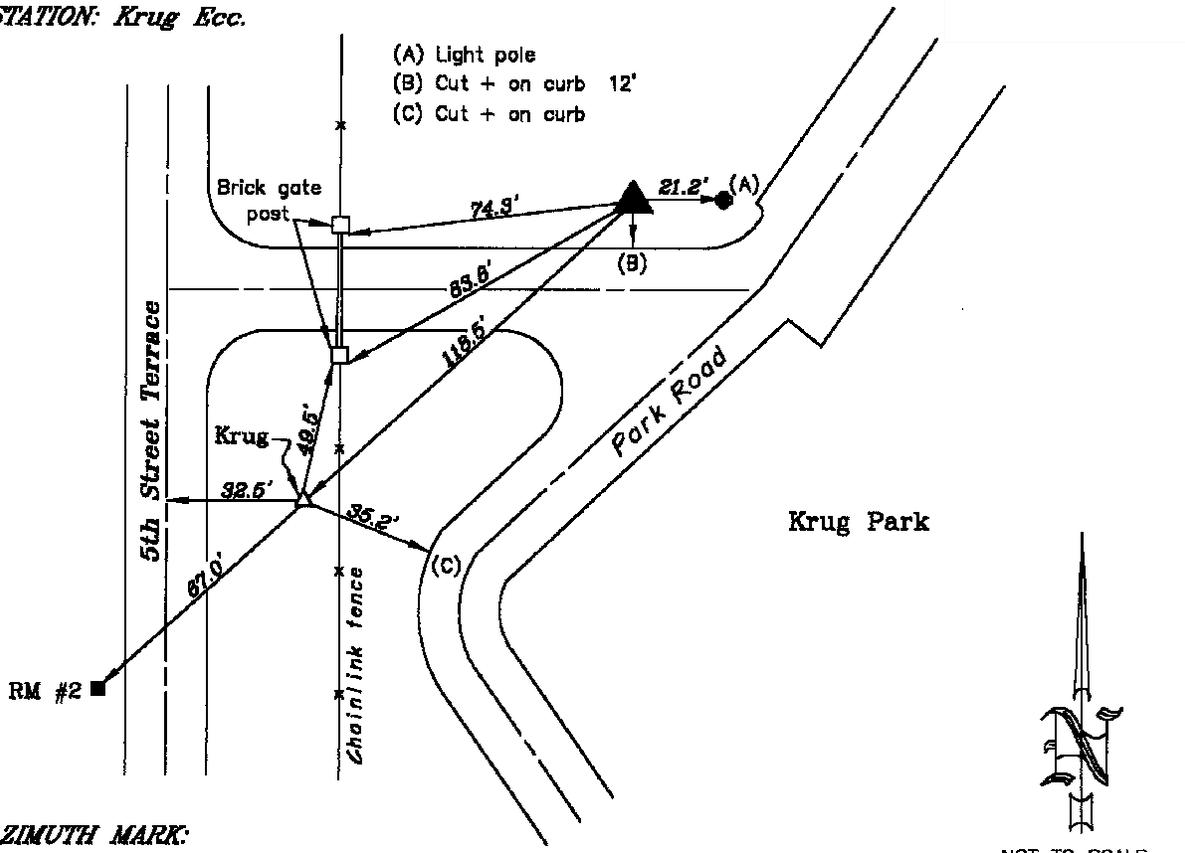
SPECIAL INFORMATION:

SUPERSEDED SURVEY CONTROL

NAD 83 NGS	(1997)-	39°47'49.38465"(N)	94°51'09.56699"(W)
NAD 83 NGS	(1997)-	39°47'49.38465"(N)	94°51'09.56699"(W)
NAD 83 NGS	(1986)-	39°47'49.38759"(N)	94°51'09.56214"(W)
NAD 83 MoDNR	(1986)-	39°47'49.38715"(N)	94°51'09.56237"(W)

DATE of REPORT, 2002

STATION: Krug Ecc.



AZIMUTH MARK:

Azimuth mark was not recovered at this time.

DATE OF SKETCH 2001



STATION: KRUG-ECC (LOOKING EAST)



STATION: KRUG-ECC (LOOKING WEST)