

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: BU-10

PID: AD9783

COUNTY: Buchanan

STATE: Missouri

TOWNSHIP: 57 NORTH, RANGE: 35 WEST, SECTION: N 1/2 OF 20

USGS 7.5' QUAD: St. Joseph South

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°44'44.05472"

ELEVATION: 251.9

LONGITUDE: 94°51'10.58341"

ELLIPSOID HEIGHT: 219.99

MISSOURI COORDINATE SYSTEM 1983:

NORTH (Y): 397279.301

EAST (X): 819751.290

ZONE: West

CONVERGENCE: -00°13'32"

GRID FACTOR: .9999179

AZIMUTH INFORMATION:

STATION: BU-10

AZIMUTH MARK: BU-10A

GEODETTIC:

ASTRONOMIC: 00°15'58"

GRID: 00°29'30"

REMARKS

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

The AZIMUTH was determined by observation of Polaris with an estimated accuracy of 1 second of arc.

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: BU-10

DESCRIPTION: The station is a standard DNR aluminum GRS disk stamped "BU-10, 1993", set in a 12 inch diameter concrete post 1 inch below the ground surface. The station has an underground mark 0.826 meters below the surface disk. The azimuth mark is a standard DNR aluminum GRS disk stamped "BU-10A, 1993", set in a 12 inch diameter concrete post 2 inches below the ground surface.

STATION, AZIMUTH MARKS AND REFERENCE TIES: The station is located in the southwest angle of the intersection of 6th Street and Hickory Street in St. Joseph, MO. It is 31 feet south of the center of Hickory Street; 24.5 feet west of the center of 6th Street; 7.1 feet west of back of curb; 7.4 feet northwest of the northeast corner of a curb inlet; 19.4 feet northeast of the 3rd post of a chain link fence; 7.4 feet east-southeast of the corner fence post and 7.0 feet east of a carsonite witness post.

The azimuth mark is about 0.25 mile north of the station and on the west side of 6th street just beyond US Highway 36 (elevated over 6th Street). It is 49.9 feet southwest of a nail and shiner in a utility pole; 21 feet west of center of 6th Street; 2.7 feet west of back of curb; 12 feet north of center of a gated entrance; 10.9 feet northeast of the north hinge post which has a witness sticker attached and 10.6 feet southeast of a brace post.

STATION & AZIMUTH MARK TO REACH: To reach the station from the center of I-229 Exit #4 (Lake Boulevard.). Go east on Lake Blvd. for 0.15 mile to 11th Street. Turn left and go north on 11th for 0.85 mile to Hickory Street. Go left and travel west on Hickory for 0.35 mile to 6th Street and the station in the southwest angle of the intersection on the left as described.

To reach the azimuth mark from the station, go north on 6th Street for 0.25 mile to the mark on the left (west) side as described.

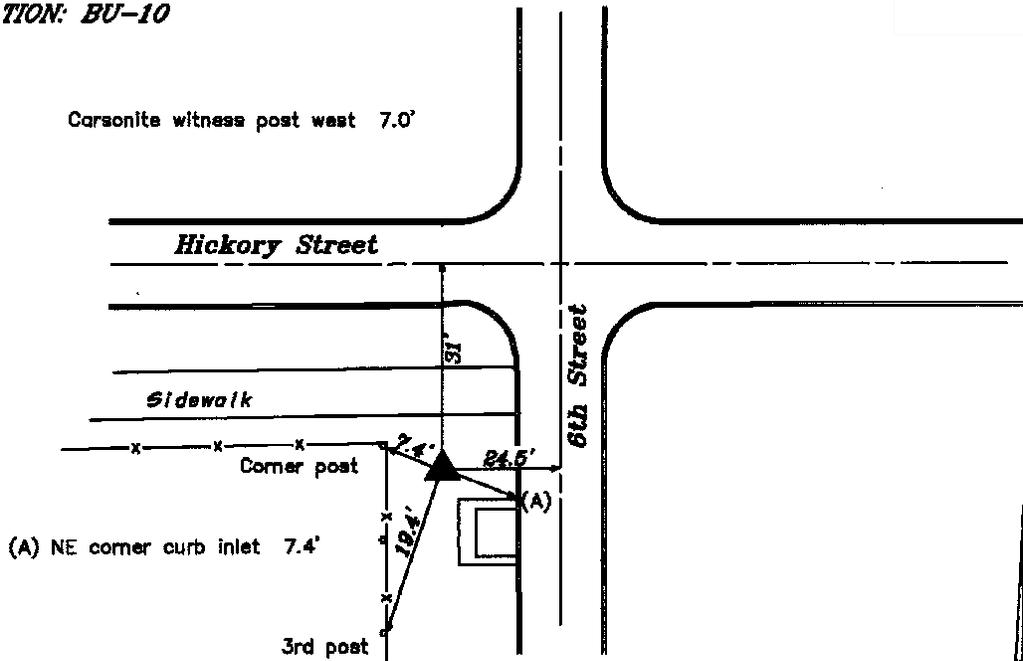
SPECIAL INFORMATION:

SUPERSEDED SURVEY CONTROL

NGS NAD 83(1997)-	39°44'44.05471"(N)	94°51'10.58342"(W)
NGS NAD 83(1997)-	39°44'44.05471"(N)	94°51'10.58343"(W)
NGS NAD 83(1986)-	39°44'44.05749"(N)	94°51'10.57938"(W)
MODNR NAD 83(1986)-	39°44'44.05693"(N)	94°51'10.57929"(W)

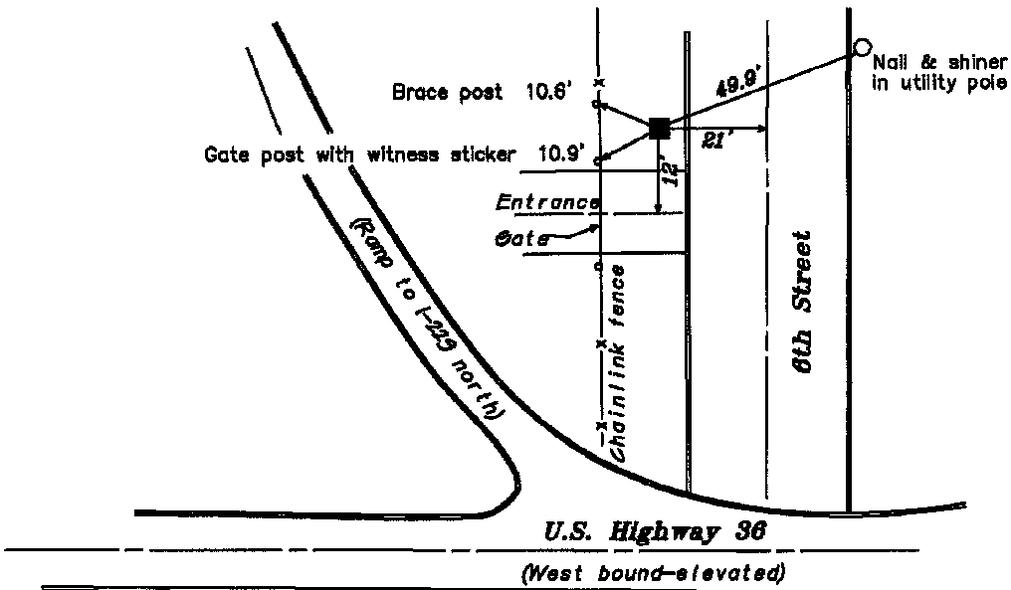
DATE of REPORT, 2002

TION: BU-10



NOT TO SCALE

UTH MARK: BU-10A



DATE OF SKETCH 2001



STATION: BU-10 (LOOKING WEST)



STATION: BU-10 (LOOKING NORTH)