

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-02

PID: AD9775

COUNTY: Buchanan

STATE: Missouri

TOWNSHIP: 57 NORTH, RANGE: 35 WEST, SECTION: NE 1/4 OF 12

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: 2001

DATE OF OBSERVATIONS: 2001

DATE OF ADJUSTMENT: 2000

DATE OF ADJUSTMENT: 2000

ORDER: 1st

ORDER:

LATITUDE: 39°46'22.22796"

ELEVATION: 278.7

LONGITUDE: 94°46'06.03390"

ELLIPSOID HEIGHT: 246.65

MISSOURI COORDINATE SYSTEM 1983:

NORTH (Y): 400281.821

EAST (X): 827010.764

ZONE: West

CONVERGENCE: -00°10'18"

GRID FACTOR: .9999090

AZIMUTH INFORMATION:

STATION: BU-02

AZIMUTH MARK: BU-02A

GEODETTIC:

ASTRONOMIC: 04°17'03"

GRID: 04°27'21"

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-02

DESCRIPTION: The station is a standard DNR aluminum GRS disk stamped "BU-02, 1993", set in a 12 inch diameter concrete post flush with the ground surface. The station has an underground mark 0.753 meters below the surface disk. The azimuth mark is a standard DNR aluminum GRS disk stamped "BU-02A, 1993", set in a 12 inch diameter concrete post flush with the ground surface.

STATION, AZIMUTH MARKS AND REFERENCE TIES: The station is located on the top of a cut bank on the west side of Missouri Route AC (Riverside Road) about 0.2 mile north of Faraon Street. It is 80.5 feet west of the west edge of Route AC pavement at station 35+75 and 34.8 feet south-southeast of a nail and shiner in a utility pole with carsonite witness post.

The azimuth mark is 0.4 mile north of the station and on the west side of Route AC at station 16+00. It is 65.0 feet west of the west edge of pavement in the area between old and new Route AC; 46.0 feet east of the center of the old pavement; 35.9 feet east of the old edge of pavement; 86.0 feet N57°E of a nail and shiner in a utility pole and 175+ feet north of a crossover.

STATION & AZIMUTH MARK TO REACH: To reach the station from the junction of Missouri Highway 6 and Missouri Route AC in the northeast part of St. Joseph, Mo, go south on Route AC for 0.65 mile to the station on the right (west) side at top of grade and top of cut as described.

To reach the azimuth mark from the station, return north on Route AC for 0.4 mile to the station on the left (west) side as described.

SPECIAL INFORMATION:

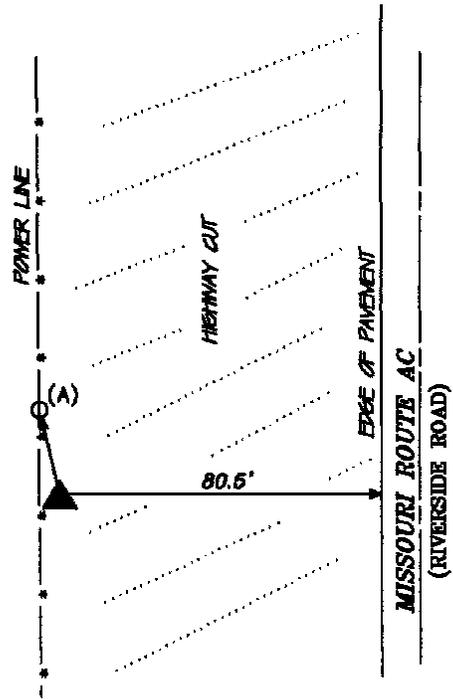
SUPERSEDED SURVEY CONTROL

NGS NAD 83(1997)-	39°46'22.22795" (N)	94°46'06.03392" (W)
NGS NAD 83(1997)-	39°46'22.22795" (N)	94°46'06.03392" (W)
NGS NAD 83(1986)-	39°46'22.23067" (N)	94°46'06.03009" (W)
MODNR NAD 83(1986)-	39°46'22.23038" (N)	94°46'06.03036" (W)

DATE of REPORT, 2002

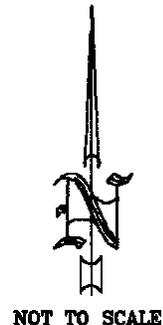
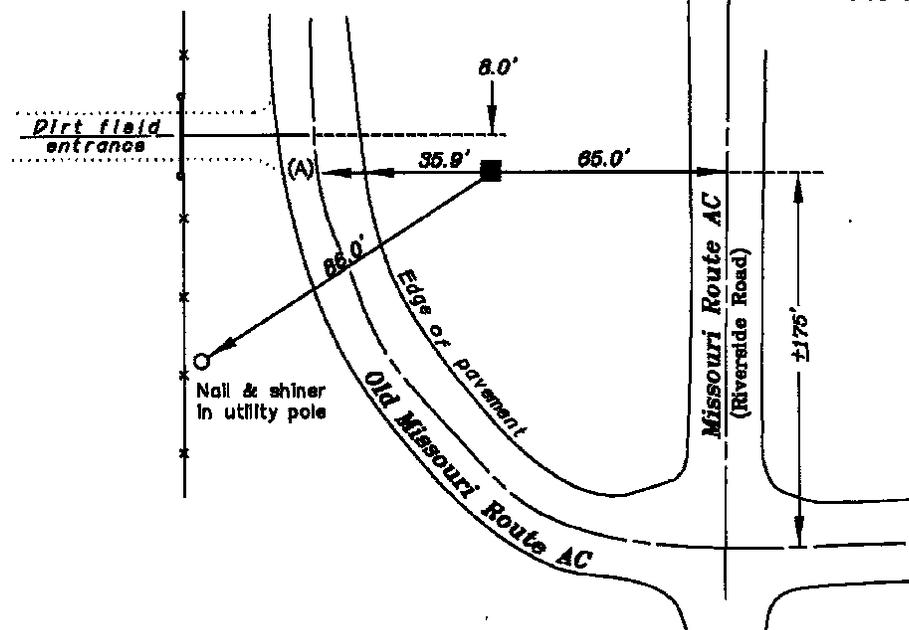
STATION: BU-02

(A) Nail & shiner in utility pole with
carsonite witness post 32.3'



AZIMUTH MARK: BU-02A

(A) 20d nail at centerline 46.0'



DATE OF SKETCH 1993



STATION: BU-02 (LOOKING SOUTH)



STATION: BU-02 (LOOKING WEST)