

## 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-07

PID: AD9780

COUNTY: Buchanan

STATE: Missouri

TOWNSHIP: 57 NORTH, RANGE: 35 WEST, SECTION: S 1/2 OF 13

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: 1993

ORDER: 1st

ORDER:

LATITUDE: 39°45'03.35471"

ELEVATION: 297.7

LONGITUDE: 94°46'32.50942"

ELLIPSOID HEIGHT: 265.68

**MISSOURI COORDINATE SYSTEM 1983:**

NORTH (Y): 397851.289

EAST (X): 826373.224

ZONE: West

CONVERGENCE: -00°10'35"

GRID FACTOR: .9999064

**AZIMUTH INFORMATION:**

STATION: BU-07

AZIMUTH MARK: BU-07A

GEODETTIC:

ASTRONOMIC: 93°18'57"

GRID: 93°29'32"

**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-07

**DESCRIPTION:** The station is a standard DNR aluminum GRS disk stamped "BU-07, 1993", set in a 12 inch diameter concrete post flush with the ground surface. The station has an underground mark 0.756 meters below the surface disk. The azimuth mark is a standard DNR aluminum GRS disk stamped "BU-07A, 1993", set in a 12 inch diameter concrete post flush with the ground surface.

**STATION, AZIMUTH MARKS AND REFERENCE TIES:** The station is located in the east part of St. Joseph, Mo, on the north side of the south outer road of US Highway 36, and in line with the east side of a concrete block building (Chesmore Seed Company). It is 5.2 feet north of the north edge of pavement; 15.2 feet north of the center of the outer road; 52.8 feet northwest of a cross on an entrance curb and 61.7 feet north of the northeast corner of the aforesaid concrete block building.

The azimuth mark is about 0.4 mile east of the station and in the northwest angle of the US Highway 36 interchange with Missouri Route AC. It is 6.3 feet southwest of the center of a yield sign footing; 52.3 feet west of the west edge of Route AC; 10.1 feet northwest of the back of curb and 42.8 ft. north-northwest of the south edge of the west bound "on ramp" pavement.

**STATION & AZIMUTH MARK TO REACH:** To reach the station from US Highway 36 and Missouri Route AC. Go south on Route AC for +250 feet to the south outer road west; turn right and go west on outer road for 0.5 mile to Chesmore Seed Co. on left, and station on right (north) side of road at crest of a grade as described.

To reach the azimuth mark from the station return 0.5 mile east on outer road to Route AC; turn left and go north for 0.2 mile to northwest angle of interchange and station on left as described.

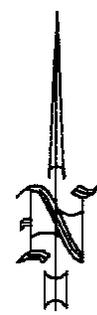
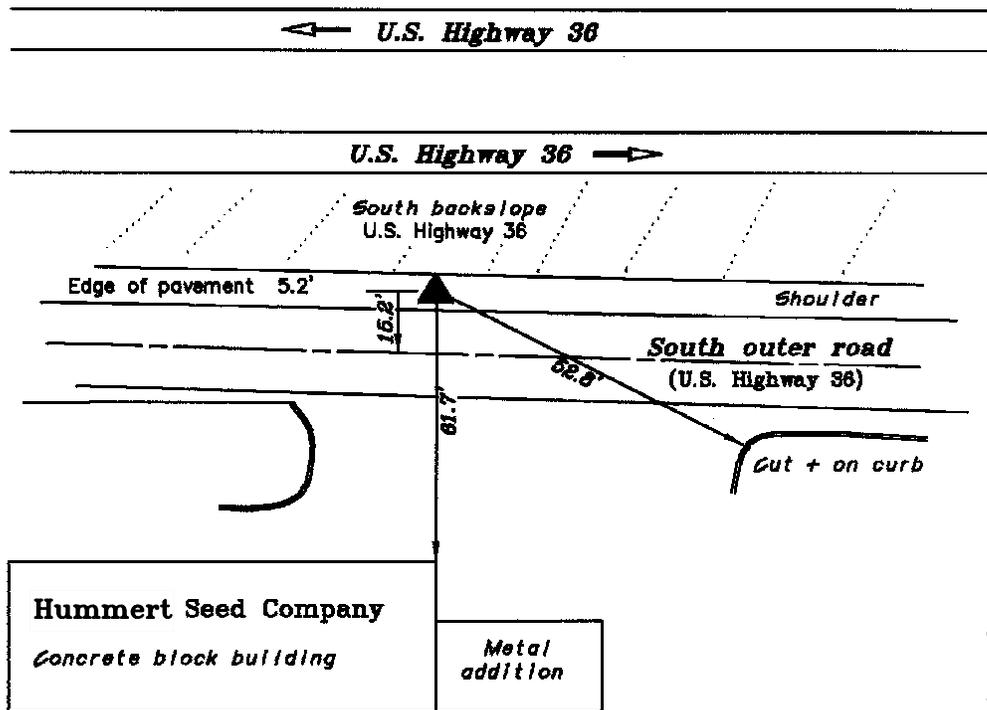
**SPECIAL INFORMATION:**

**SUPERSEDED SURVEY CONTROL**

NGS NAD 83(1997)-	39°45'03.35470"(N)	94°46'32.50944"(W)
NGS NAD 83(1997)-	39°45'03.35470"(N)	94°46'32.50944"(W)
NGS NAD 83(1997)-	39°45'03.35745"(N)	94°46'32.50571"(W)
MODNR NAD 83(1986)-	39°45'03.35707"(N)	94°46'32.50594"(W)

**DATE of REPORT, 2002**

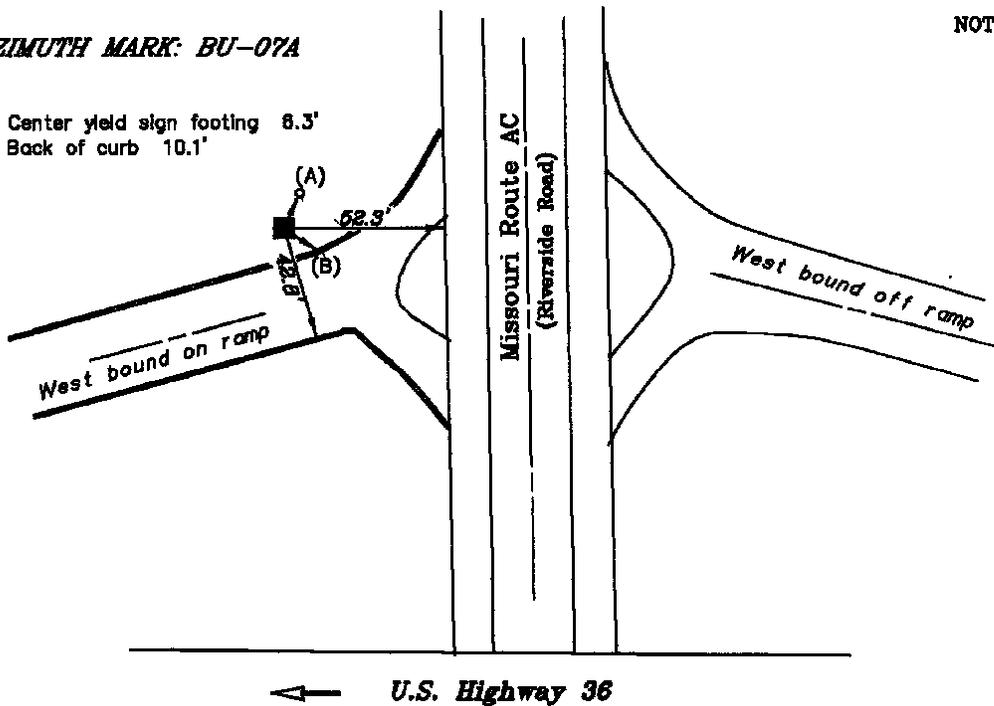
STATION: BU-07



NOT TO SCALE

AZIMUTH MARK: BU-07A

- (A) Center yield sign footing 8.3'
- (B) Back of curb 10.1'



DATE OF SKETCH 2001



STATION: BU-07 (LOOKING SOUTH)



STATION: BU-07 (LOOKING EAST)