

LB1690

DESIGNATION - M 94
PID - LB1690
STATE/COUNTY- IN/TIPPECANOE
USGS QUAD - WINGATE (1962)

*CURRENT SURVEY CONTROL

* NAD 83(2007)- 40 13 05.27124(N) 087 04 25.49911(W) ADJUSTED
* NAVD 88 - 230.206 (meters) 755.27 (feet) ADJUSTED

EPOCH DATE - 2002.00
X - 248,986.260 (meters) COMP
Y - -4,870,894.395 (meters) COMP
Z - 4,096,637.017 (meters) COMP
LAPLACE CORR- -1.64 (seconds) DEFLEC99
ELLIP HEIGHT- 196.863 (meters) (02/10/07) ADJUSTED
GEOID HEIGHT- -33.33 (meters) GEOID03
DYNAMIC HT - 230.088 (meters) 754.88 (feet) COMP

----- Accuracy Estimates (at 95% Confidence Level in cm) -----

Type	PID	Designation	North	East	Ellip
NETWORK	M 94		0.88	0.63	2.12

MODELED GRAV- 980,109.4 (mgal) NAVD 88

VERT ORDER - SECOND CLASS 0

.The horizontal coordinates were established by GPS observations
.and adjusted by the National Geodetic Survey in February 2007.

.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
.The horizontal coordinates are valid at the epoch date displayed
above.

.The epoch date for horizontal control is a decimal equivalence
.of Year/Month/Day.

.The orthometric height was determined by differential leveling
.and adjusted in June 1991.

.The X, Y, and Z were computed from the position and the ellipsoidal
ht.

.The Laplace correction was computed from DEFLEC99 derived
deflections.

.The ellipsoidal height was determined by GPS observations
.and is referenced to NAD 83.

.The geoid height was determined by GEOID03.

.The dynamic height is computed by dividing the NAVD 88
.geopotential number by the normal gravity value computed on the

.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 degrees latitude (g = 980.6199 gals.).

.The modeled gravity was interpolated from observed gravity values.

```
;
          North      East      Units Scale Factor
Converg.
;SPC IN W   - 551,737.415  900,815.742  MT  0.99996667  +0 00
22.3
;SPC IN W   - 1,810,158.50  2,955,426.31  sFT 0.99996667  +0 00
22.3
;UTM 16     - 4,451,970.680  493,724.820  MT  0.99960048  -0 02
51.4

!          - Elev Factor x Scale Factor = Combined Factor
!SPC IN W   - 0.99996912 x 0.99996667 = 0.99993579
!UTM 16     - 0.99996912 x 0.99960048 = 0.99956961
```

SUPERSEDED SURVEY CONTROL

```
1
NAD 83(1997)- 40 13 05.27122(N) 087 04 25.49911(W) AD( ) B
ELLIP H (03/12/99) 196.866 (m) GP( ) 2
NAD 83(1986)- 40 13 05.28048(N) 087 04 25.50620(W) AD( ) 2
NAD 27 - 40 13 05.13840(N) 087 04 25.48200(W) AD( ) 2
NAVD 88 (03/12/99) 230.21 (m) 755.3 (f) LEVELING 3
NGVD 29 (??/??/92) 230.286 (m) 755.53 (f) ADJ UNCH 2
0
```

.Superseded values are not recommended for survey control.
.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
.See [file dsdata.txt](#) to determine how the superseded data were derived.

```
_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TDK9372551971(NAD 83)
_MARKER: DB = BENCH MARK DISK
_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
_SP_SET: SET IN TOP OF CONCRETE MONUMENT
_STAMPING: M 94 1946
_MARK LOGO: CGS
_MAGNETIC: O = OTHER; SEE DESCRIPTION
_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
+STABILITY: SURFACE MOTION
_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
+SATELLITE: SATELLITE OBSERVATIONS - July 23, 1998
```

HISTORY	- Date	Condition	Report By
HISTORY	- 1946	MONUMENTED	CGS
HISTORY	- 1948	GOOD	CGS
HISTORY	- 19980723	GOOD	WOOLPT

STATION DESCRIPTION

DESCRIBED BY COAST AND GEODETIC SURVEY 1946
3.2 MI N FROM WINGATE.
ABOUT 3.2 MILES NORTH ALONG STATE HIGHWAY 25 FROM THE POST
OFFICE AT WINGATE, 135 FEET NORTHEAST OF THE SOUTHEAST CORNER OF

A LARGE RED BARN, 90 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF A TIN BARN, 33 FEET WEST OF THE CENTER LINE OF THE HIGHWAY, 19 FEET NORTH OF THE CENTER LINE OF A GRAVEL DRIVE WAY, 20 FEET SOUTHEAST OF A POWER POLE WITH A TRANSFORMER, 2 FEET SOUTH OF A WHITE WOODEN WITNESS POST, AND ABOUT 1 FOOT ABOVE THE HIGHWAY. NOTE-- MARK IS ABOUT 0.25 MILE NORTH OF THE TIPPECANOE-MONTGOMERY COUNTY LINE. A STANDARD DISK, STAMPED M 94 1946 AND SET IN THE TOP OF A CONCRETE POST PROJECTING 6 INCHES ABOVE GROUND.

STATION RECOVERY (1948)

RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1948 (RCB)
THIS IS A TRAVERSE STATION.

STATION IS LOCATED ABOUT 4-1/2 MILES NORTHEAST OF NEWTOWN AND 5 MILES SOUTH OF ODELL ON PROPERTY OWNED BY MR. MCKORKLE. IT IS 33 FEET WEST OF THE CENTER OF STATE HIGHWAY NO. 25, 2 FEET SOUTH OF A WHITE WITNESS POST AND 1 FOOT EAST OF A FENCELINE. THE MARK IS A 6X6 INCH CONCRETE POST WHICH PROJECTS 6 INCHES WITH A STANDARD USC AND GS BM BRONZE DISK STAMPED M 94 1939. A TRAVERSE CONNECTION WAS MADE FROM TRIANGULATION STATION BIG AND THE DISTANCE WAS FOUND TO BE 64.26 FEET (19.588 METERS).

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS NO. 25 AND NO. 28 IN THE VILLAGE OF ODELL GO SOUTH ON STATE HIGHWAY NO. 25 FOR 4.9 MILES TO THE STATION ON THE RIGHT AS DESCRIBED.

STATION RECOVERY (1998)

RECOVERY NOTE BY WOOLPERT CONSULTANTS 1998 (GTF)
DESCRIBED BY WOOLPERT LLP 1998 (GTF). THE STATION IS 14 MI (22.5 KM) SOUTHWEST OF LAFAYETTE 7 MI (11.3 KM) NORTH OF WAYNETOWN, AND 5 MI (8.0 KM) SOUTH OF ODELL. TO REACH THE STATION FROM THE JUNCTION OF STATE ROUTES 28 AND 25 IN ODELL, PROCEED 4.9 MI (7.9 KM) SOUTH ALONG STATE ROUTE 25 TO THE STATION ON THE RIGHT. THE STATION IS A STANDARD BENCHMARK DISK IN A CONCRETE MONUMENT STAMPED--M 94 1946-- . THE STATION IS 10.0 M (32.8 FT) WEST OF THE CENTERLINE OF STATE ROUTE 25, 5.8 M (19.0 FT) NORTH OF THE CENTERLINE OF A GRAVEL DRIVEWAY, AND 6.0 M (19.7 FT) SOUTHEAST OF A UTILITY POLE.

1 National Geodetic Survey, Retrieval Date = DECEMBER 21,
2007

C-49
PBM M - 94

13730 SR 25 is Gravel Drive
14' North of Gravel Drive

(USC&GS) Jackson Township, SE of Sec. 34-21-6, west side of State Road 25, 0.2 mile north of the Tippecanoe-Montgomery County line, 135 feet northeast of the southeast corner of a large red barn, 90 feet southeast of the southeast corner of a tin barn, (these barns may have been changed due to wind storm in 1953), 33 feet west of the centerline of the highway, 19 feet north of the centerline of a gravel driveway, ~~20 feet southeast of a power pole with a transformer, 2 feet south of a white witness post, about 1 foot higher than the highway.~~ A standard disk, stamped "M 94 1946," set in the top of a concrete post. Elev. 755.530 feet. Attica Area, page 11, line 9.

Recovered 8/80

RECOVERED 8/87

RECOVERED SEPT. 26, 1989

" 7/03/07 (MWF) Good Condition

Level w/ Hwy

(Transformer on Pole)

14' South of P/P WM1-2E REAL 12

80' SE of Tin Barn from SE corner