The horizontal coordinates were established by classical geodetic methods and adjusted by the National Geodetic Survey in May 1999.

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

The Laplace correction was computed from DEFLEC99 derived deflections.

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.
SUPERSEDED SURVEY CONTROL

NAD 83(1986) -  40 21 34.17372(N)  086 58 16.42538(W) AD(   )  3
NAD 27      -  40 21 34.03630(N)  086 58 16.37360(W) AD(   )  3
NGVD 29 (??/??/92)  191.296  (m)    627.61   (f) ADJ UNCH  2

Superseded values are not recommended for survey control.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See file dsdata.txt to determine how the superseded data were derived.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: 16TEK0244367659(NAD 83)_
__MARKER: DD = SURVEY DISK__
__SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT__
__SP_SET: SET IN TOP OF CONCRETE MONUMENT__
__STAMPING: 133__
__STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO__
+STABILITY: SURFACE MOTION

HISTORY - Date  Condition       Report By
HISTORY - 1948  MONUMENTED      INGS
HISTORY - 1946  GOOD            NGS
HISTORY - 1966  GOOD            CGS
HISTORY - 1966  GOOD            NGS

STATION DESCRIPTION

DESCRIBED BY INDIANA GEODETIC SURVEY 1948 (RCB)
STATION IS LOCATED ABOUT 5 MILES SOUTHWEST OF LAFAYETTE ON THE
SOUTH SIDE OF STATE HIGHWAY NO. 25. IT IS 65 FEET SOUTH OF THE
CENTER OF HIGHWAY, 34 FEET SOUTHWEST OF A TELEPHONE POLE, 33 FEET
SOUTH OF A FENCELINE AND 2 FEET SOUTH OF A WHITE WITNESS POST.
THE MARK IS A 4X4 INCH CONCRETE POST SET FLUSH WITH THE GROUND
WITH A STANDARD USC AND GS AND SS BM DISK STAMPED NO 133.

REFERENCE MARK NO. 1 IS 71.70 FEET NORTHEAST OF THE STATION. IT IS
23 FEET SOUTH OF THE CENTER OF HIGHWAY, 21 FEET EAST OF A TELEPHONE
POLE AND 1 FOOT SOUTH OF A FENCELINE. THE MARK PROJECTS 4 INCHES
AND THE DISK IS STAMPED NO 133 NO 1 1948.

REFERENCE MARK NO. 2 IS 70.15 FEET SOUTHWEST OF THE STATION. IT IS
57 FEET SOUTH OF THE CENTER OF HIGHWAY, 24 FEET SOUTH OF A
TELEPHONE POLE AND 3 FEET NORTHEAST OF A FENCE CORNER.
THE MARK PROJECTS 4 INCHES AND THE DISK IS STAMPED NO 133 NO 2
1948.
NO 132 WAS USED AS THE AZIMUTH MARK AND IS 0.7 MILE WEST OF THE STATION. IT IS 52 FEET NORTHWEST OF THE NORTHWEST CORNER OF A HOUSE, 50 FEET NORTHWEST OF A TELEPHONE POLE, 33 FEET SOUTH OF THE CENTER OF STATE HIGHWAY NO. 25, 3 FEET NORTH OF A FENCELINE AND 2 FEET WEST OF A WHITE WITNESS POST. THE MARK IS A 4X4 INCH CONCRETE POST FLUSH WITH THE GROUND WITH A STANDARD USC AND GS AND SS BM DISK STAMPED NO 132.

TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS NO. 25 AND NO. 43 WHICH IS 2 MILES SOUTHWEST OF LAFAYETTE GO SOUTHWEST ON STATE HIGHWAY NO. 25 FOR 4.2 MILES TO THE STATION ON THE LEFT AS DESCRIBED, CONTINUE FOR 0.7 MILE TO STATION NO. 132, ON THE LEFT, WHICH WAS USED AS THE AZIMUTH MARK.

HEIGHT OF LIGHT ABOVE STATION MARK 26 METERS.

STATION RECOVERY (1946)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1946
1.6 MI SW FROM SHADELAND.

STATION RECOVERY (1966)

RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1966 (WHB)
133 RECOVERED IN GOOD CONDITION. (IND. GEOD. S).
NO 133 NO. 1 1948 RECOVERED IN GOOD CONDITION. (USC AND GS).
NO 133 NO. 2 1948 RECOVERED IN GOOD CONDITION. (USC AND GS).
AZ MK 132 (I. G. S.) RECOVERED IN GOOD CONDITION.

IN STA DESCRIPTION, DELETE REFERENCE TO WITNESS POST.
IN R. M. NO. 1 PORTION, DELETE REFERENCE TO FENCE LINE.
DESCRIPTION OTHERWISE CORRECT.

STATION RECOVERY (1966)

RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1966
RECOVERED IN GOOD CONDITION.
1 National Geodetic Survey, Retrieval Date = DECEMBER 21, 2007
(Ind. Deed. S.) S Sec. 10-22-5, 1.6 miles southwest along State Highway 25 from the Plains Grange building at Shadeland, at the middle of a curve in the highway with tangents extending northeast and west, 120 feet southeast across the highway from the southeast corner of a white two-story house, 108 feet east of the southeast end of an 18 inch concrete culvert, 65 feet southeast of the centerline of the highway, 16 feet northwest of a 12 inch ash tree, 2 feet southeast of a white wooden witness post, and about 3 feet higher than the highway. A State Survey standard disk, stamped "133" and set in the top of a concrete post flush with the ground. Elev. 627.610 feet. Attica Area, page 7, line 6.

RECOVERED 8/37
" Oct. 4, 1994 IN GOOD CONDITION
" 7/11/07 IN GOOD CONDITION (MARK)