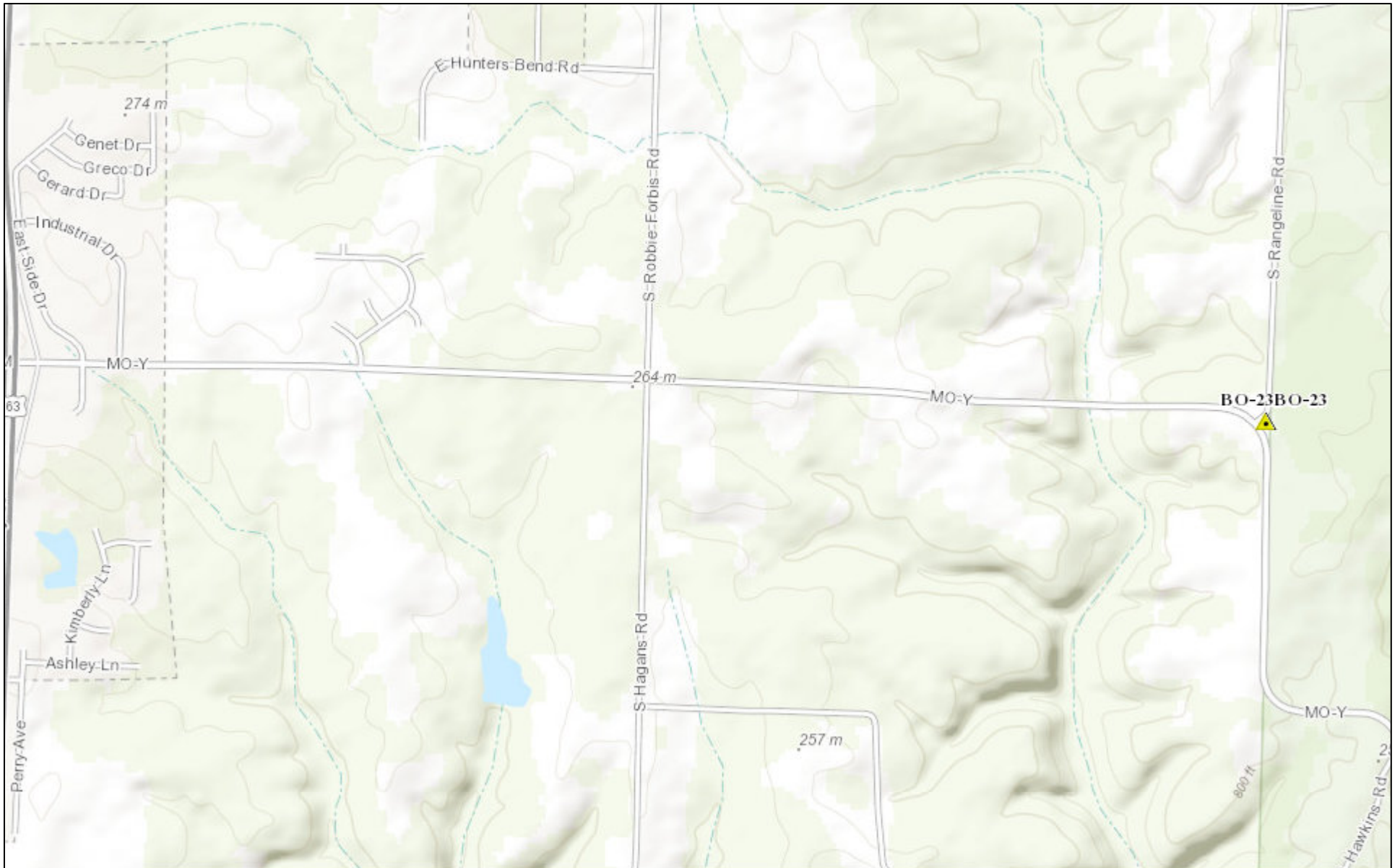
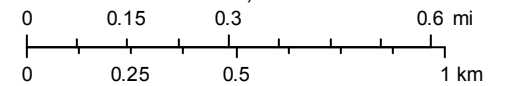


# BO 23



April 20, 2015

1:18,056



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL,

# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.7  
 1 National Geodetic Survey, Retrieval Date = APRIL 20, 2015  
 JD2851 \*\*\*\*\*  
 JD2851 DESIGNATION - BO 23  
 JD2851 PID - JD2851  
 JD2851 STATE/COUNTY- MO/BOONE  
 JD2851 COUNTRY - US  
 JD2851 USGS QUAD - MILLERSBURG SW (1981)  
 JD2851  
 JD2851 \*CURRENT SURVEY CONTROL  
 JD2851  
 JD2851\* NAD 83(2011) POSITION- 38 46 22.68369(N) 092 12 53.81221(W) ADJUSTED  
 JD2851\* NAD 83(2011) ELLIP HT- 220.069 (meters) (06/27/12) ADJUSTED  
 JD2851\* NAD 83(2011) EPOCH - 2010.00  
 JD2851\* NAVD 88 ORTHO HEIGHT - 252.6 (meters) 829. (feet) VERTCON  
 JD2851 \*USE ELLIP HT - GEOID HT → 220.069 - (-32.48) = 252.549  
 JD2851 GEOID HEIGHT - -32.48 (meters) GEOID12B  
 JD2851 NAD 83(2011) X - -192,443.318 (meters) COMP  
 JD2851 NAD 83(2011) Y - -4,975,600.997 (meters) COMP  
 JD2851 NAD 83(2011) Z - 3,972,836.581 (meters) COMP  
 JD2851 LAPLACE CORR - 1.69 (seconds) DEFLEC12B  
 JD2851  
 JD2851 Network accuracy estimates per FGDC Geospatial Positioning Accuracy  
 JD2851 Standards:  

	FGDC (95% conf, cm)		Standard deviation (cm)			CorrNE (unitless)
	Horiz	Ellip	SD_N	SD_E	SD_h	
NETWORK	1.23	2.20	0.54	0.46	1.12	-0.02364464

 -----  
 JD2851 Click [here](#) for local accuracies and other accuracy information.  
 JD2851  
 JD2851  
 JD2851.The horizontal coordinates were established by GPS observations  
 JD2851.and adjusted by the National Geodetic Survey in June 2012.  
 JD2851  
 JD2851.NAD 83(2011) refers to NAD 83 coordinates where the reference  
 JD2851.frame has been affixed to the stable North American tectonic plate. See  
 JD2851.[NA2011](#) for more information.  
 JD2851  
 JD2851.The horizontal coordinates are valid at the epoch date displayed above  
 JD2851.which is a decimal equivalence of Year/Month/Day.  
 JD2851  
 JD2851.The NAVD 88 height was computed by applying the VERTCON shift value to  
 JD2851.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)  
 JD2851  
 JD2851.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 JD2851  
 JD2851.The Laplace correction was computed from DEFLEC12B derived deflections.  
 JD2851  
 JD2851.The ellipsoidal height was determined by GPS observations  
 JD2851.and is referenced to NAD 83.  
 JD2851  
 JD2851. The following values were computed from the NAD 83(2011) position.  
 JD2851  

	North	East	Units	Scale	Factor	Converg.
JD2851;SPC MO C	- 326,267.451	524,770.132	MT	0.99994089	+0 10	42.6
JD2851;UTM 15	- 4,291,875.645	568,196.215	MT	0.99965727	+0 29	29.9

 JD2851  
 JD2851!  

	Elev Factor	x	Scale Factor	=	Combined Factor
JD2851!SPC MO C	- 0.99996547	x	0.99994089	=	0.99990636
JD2851!UTM 15	- 0.99996547	x	0.99965727	=	0.99962275

 JD2851  
 JD2851 SUPERSEDED SURVEY CONTROL

POINT 5006  
 CHECK HT WITH KNOWN ELEVATION  
 MEASURED ELEV = 828.514'  
 KNOWN ELEV = 252.549  
 1 METER = 39.37 US SURVEY FT  
 $252.549 \times \frac{39.37}{1 \text{ m}} \times \frac{1'}{12''}$   
 = 828.571'  
 KNOWN - MEAS = DIFFERENCE  
 $828.571 - 828.514$   
 = 0.057'  
 CONVERT TO CM  
 $0.057' \times \frac{12''}{1'} \times \frac{2.54 \text{ cm}}{1''}$   
 = 1.73 CM  
 REQ'D ACCURACY IS 2 CM  
 OKAY MEETS REQUIREMENTS

JD2851  
 JD2851 NAD 83(2007)- 38 46 22.68369(N) 092 12 53.81286(W) AD(2002.00) 0  
 JD2851 ELLIP H (02/10/07) 220.098 (m) GP(2002.00)  
 JD2851 NAD 83(1997)- 38 46 22.68369(N) 092 12 53.81319(W) AD( ) 1  
 JD2851 ELLIP H (02/17/00) 220.100 (m) GP( ) 4 1  
 JD2851 NAD 83(1986)- 38 46 22.69262(N) 092 12 53.81717(W) AD( ) 1  
 JD2851 NGVD 29 (09/27/93) 252.6 (m) GEOID93 model used GPS OBS

JD2851

JD2851.Superseded values are not recommended for survey control.

JD2851

JD2851.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JD2851.[See file dsdata.txt](#) to determine how the superseded data were derived.

JD2851

JD2851\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SWC6819691875(NAD 83)

JD2851

JD2851\_MARKER: DD = SURVEY DISK

JD2851\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JD2851\_SP\_SET: CONCRETE POST

JD2851\_STAMPING: BO-23 1992

JD2851\_MARK LOGO: MODNR

JD2851\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

JD2851\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JD2851+STABILITY: SURFACE MOTION

JD2851\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JD2851+SATELLITE: SATELLITE OBSERVATIONS - June 10, 2008

JD2851

JD2851 HISTORY	- Date	Condition	Report By
JD2851 HISTORY	- 1992	MONUMENTED	MODNR
JD2851 HISTORY	- 20080610	GOOD	GEOCAC

JD2851

JD2851 STATION DESCRIPTION

JD2851

JD2851'DESCRIBED BY MO DEPT OF NAT RES 1992

JD2851'DATE OF REPORT 11-30-1992

JD2851'STATION BO-23

JD2851'STATION, AZIMUTH MARKS AND REFERENCE TIES

JD2851'THE STATION IS A STANDARD DNR GRS ALUMINUM DISK STAMPED--BO-23 1992--

JD2851'SET IN A 12 INCH DIAMETER CONCRETE POST. THE UNDERGROUND STATION IS A

JD2851'STANDARD DNR GRS ALUMINUM DISK STAMPED--BO-23U 1992--SET IN A MASS OF

JD2851'CONCRETE. THE STATION IS 2.0 MI (3.2 KM) EAST OF ASHLAND MO 2.0 MI

JD2851'(3.2 KM) EAST OF THE U.S. HWY. 63 AND MO. HWY. Y INTERSECTION, 40.0

JD2851'FT (12.2 M) SOUTHEAST OF THE CENTERLINE OF RANGE LINE ROAD, 58.8 FT

JD2851'(17.9 M) SOUTHEAST OF A MAILBOX, 45.5 FT (13.9 M) SOUTHWEST OF A

JD2851'FIRE HYDRANT, 25.1 FT (7.7 M) WEST OF THE CENTERLINE OF AN OLD ROAD

JD2851'BED, 45.7 FT (13.9 M) WEST OF A FENCE, 86.7 FT (26.4 M) NORTHEAST OF

JD2851'MO. RTE. Y, 18.39 FT (5.61 M) EAST OF A NAIL AND SHINER IN A POWER

JD2851'POLE, 86.7 FT (26.4 M) EAST OF A STOP SIGN, AND 45.7 FT (13.9 M)

JD2851'WEST OF A WITNESS POST.

JD2851'THE AZIMUTH MARK IS A STANDARD DNR GRS ALUMINUM DISK STAMPED--BO-23A

JD2851'1992--SET IN A 12 IN. DIAMETER CONCRETE POST. IT IS 2.0 MI (3.2 KM)

JD2851'EAST OF THE U.S. HWY. 63 AND MO. HWY. Y INTERSECTION IN ASHLAND MO,

JD2851'13.29 FT (4.05 M) SOUTHEAST OF A NAIL AND SHINER IN A POWER POLE

JD2851'TRANSFORMER PLATFORM, 25.0 FT (7.6 M) WEST OF THE CENTERLINE OF MO.

JD2851'RTE. Y, 24.0 FT (7.3 M) NORTH OF A DRIVEWAY CENTERLINE, 10.33 FT

JD2851'(3.15 M) NORTHEAST OF A POWER POLE TRANSFORMER PLATFORM, AND 10.8 FT

JD2851'(3.3 M) WEST OF A WITNESS POST AT A BOARD FENCE.

JD2851'STATION AND AZIMUTH MARK TO REACH

JD2851'TO REACH THE STATION FROM THE INTERSECTION OF MO. HWY. Y AND U.S. HWY.

JD2851'63 AT ASHLAND, GO EAST AND SOUTH ON MO. HWY. Y FOR 2.00 MI (3.22 KM)

JD2851'TO THE STATION IN THE EAST ANGLE OF MO. HWY. Y AND RANGELINE ROAD AS

JD2851'DESCRIBED.

JD2851'TO REACH THE AZIMUTH MARK FROM THE STATION, CONTINUE SOUTH ON MO. HWY.

JD2851'Y FOR .25 MI (0.40 KM) TO THE AZIMUTH MARK ON THE RIGHT AS DESCRIBED.

JD2851

JD2851 STATION RECOVERY (2008)

JD2851

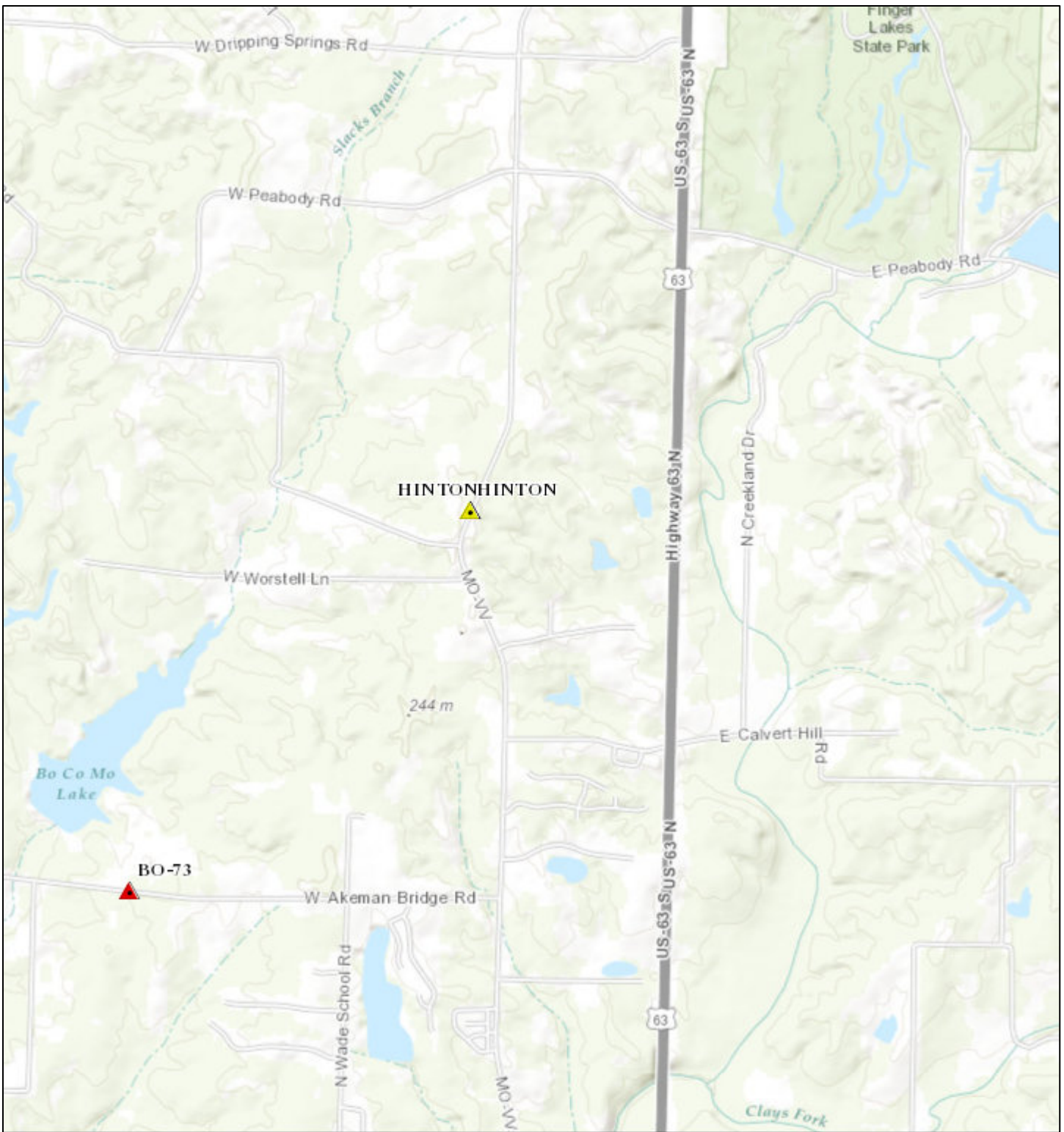
JD2851'RECOVERY NOTE BY GEOCACHING 2008 (ATL)

JD2851'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

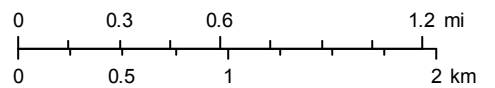
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# BO Hinton



April 20, 2015

1:36,112



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community Missouri Department of Agriculture, Land Survey Program

# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.7  
 1 National Geodetic Survey, Retrieval Date = APRIL 20, 2015  
 KD1062 \*\*\*\*\*  
 KD1062 DESIGNATION - **HINTON** HINTON  
 KD1062 PID - KD1062  
 KD1062 STATE/COUNTY- MO/BOONE  
 KD1062 COUNTRY - US  
 KD1062 USGS QUAD - BROWNS (1981)  
 KD1062  
 KD1062 \*CURRENT SURVEY CONTROL  
 KD1062  
 KD1062\* NAD 83(2011) POSITION- 39 03 50.99743(N) 092 20 32.98754(W) ADJUSTED  
 KD1062\* NAD 83(2011) ELLIP HT- 214.032 (meters) (06/27/12) ADJUSTED  
 KD1062\* NAD 83(2011) EPOCH - 2010.00  
 KD1062\* NAVD 88 ORTHO HEIGHT - 246.8 (meters) 810. (feet) VERTCON  
 KD1062 ACTUAL ELLIP HT - GEOID HT → 214.032 - (-32.77) = 246.802  
 KD1062 GEOID HEIGHT - -32.77 (meters) GEOID12B  
 KD1062 NAD 83(2011) X - -202,688.960 (meters) COMP  
 KD1062 NAD 83(2011) Y - -4,954,863.515 (meters) COMP  
 KD1062 NAD 83(2011) Z - 3,997,985.355 (meters) COMP  
 KD1062 LAPLACE CORR - 1.19 (seconds) DEFLEC12B  
 KD1062  
 KD1062 Network accuracy estimates per FGDC Geospatial Positioning Accuracy  
 KD1062 Standards:  
 KD1062 FGDC (95% conf, cm) Standard deviation (cm) CorrNE  
 KD1062 Horiz Ellip SD\_N SD\_E SD\_h (unitless)  
 KD1062 -----  
 KD1062 NETWORK 1.19 2.21 0.53 0.43 1.13 0.01891707  
 KD1062 -----  
 KD1062 Click [here](#) for local accuracies and other accuracy information.  
 KD1062  
 KD1062  
 KD1062 The horizontal coordinates were established by GPS observations  
 KD1062 and adjusted by the National Geodetic Survey in June 2012.  
 KD1062  
 KD1062 NAD 83(2011) refers to NAD 83 coordinates where the reference  
 KD1062 frame has been affixed to the stable North American tectonic plate. See  
 KD1062 [NA2011](#) for more information.  
 KD1062  
 KD1062 The horizontal coordinates are valid at the epoch date displayed above  
 KD1062 which is a decimal equivalence of Year/Month/Day.  
 KD1062  
 KD1062 The NAVD 88 height was computed by applying the VERTCON shift value to  
 KD1062 the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)  
 KD1062  
 KD1062 The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 KD1062  
 KD1062 The Laplace correction was computed from DEFLEC12B derived deflections.  
 KD1062  
 KD1062 The ellipsoidal height was determined by GPS observations  
 KD1062 and is referenced to NAD 83.  
 KD1062  
 KD1062 The following values were computed from the NAD 83(2011) position.  
 KD1062  
 KD1062;  
 KD1062;SPC MO C - North East Units Scale Factor Converg.  
 KD1062;UTM 15 - 358,565.579 513,630.721 MT 0.99993562 +0 05 57.3  
 KD1062;UTM 15 - 4,324,102.876 556,883.178 MT 0.99963984 +0 24 51.7  
 KD1062  
 KD1062!  
 KD1062!SPC MO C - Elev Factor x Scale Factor = Combined Factor  
 KD1062!UTM 15 - 0.99996642 x 0.99993562 = 0.99990204  
 KD1062!UTM 15 - 0.99996642 x 0.99963984 = 0.99960627  
 KD1062  
 KD1062:  
 KD1062: Primary Azimuth Mark Grid Az

POINT 5012

CHECK HT WITH KNOWN ELEVATION

MEASURED ELEV = 809.685

KNOWN ELEV = 246.802m

1 METER = 39.37 US SURVEY FT

$$246.802 \times \frac{39.37}{1 \text{ m}} \times \frac{1}{12} = 809.716'$$

KNOWN - MEAS = DIFFERENCE

$$809.716 - 809.685 = 0.031'$$

CONVERT TO CM

$$0.031' \times \frac{12''}{1'} \times \frac{2.54 \text{ cm}}{1''}$$

$$= 0.94 \text{ cm}$$

REQ'D ACCURACY

IS 2CM

OKAY MEETS REQUIREMENTS

KD1062:SPC MO C - HINTON AZ MK 227 30 06.8  
 KD1062:UTM 15 - HINTON AZ MK 227 11 12.4

KD1062

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KD1062| PID      Reference Object          Distance      Geod. Az
KD1062|                                     dddmmss.s
KD1062| CL9549 HINTON RM 1                41.736 METERS 05924
KD1062| JD2502 COLUMBIA MUN PWR PLT TALL STK APPROX.11.2 KM 1684056.9
KD1062| JD2509 COLUMBIA MUNICIPAL TANK     APPROX.12.3 KM 1780534.8
KD1062| CL9550 HINTON RM 2                37.207 METERS 19518
KD1062| CL9548 HINTON AZ MK                2273604.1
KD1062|-----
  
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KD1062

KD1062 SUPERSEDED SURVEY CONTROL

KD1062

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KD1062 NAD 83(2007)- 39 03 50.99745(N) 092 20 32.98815(W) AD(2002.00) 0
KD1062 ELLIP H (02/10/07) 214.061 (m) GP(2002.00)
KD1062 NAD 83(1997)- 39 03 50.99741(N) 092 20 32.98860(W) AD( ) 1
KD1062 ELLIP H (02/17/00) 214.066 (m) GP( ) 4 1
KD1062 NAD 83(1986)- 39 03 51.00605(N) 092 20 32.99231(W) AD( ) 1
KD1062 NAD 83(1986)- 39 03 51.00605(N) 092 20 32.99231(W) AD( ) 2
KD1062 NAD 27 - 39 03 50.85870(N) 092 20 32.33800(W) AD( ) 2
KD1062 NGVD 29 (09/27/93) 246.7 (m) GEOID93 model used GPS OBS
  
```

KD1062

KD1062.Superseded values are not recommended for survey control.

KD1062

KD1062.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

KD1062.[See file dsdata.txt](#) to determine how the superseded data were derived.

KD1062

KD1062\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SWD5688324102(NAD 83)

KD1062

KD1062\_MARKER: DH = HORIZONTAL CONTROL DISK

KD1062\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

KD1062\_SP\_SET: CONCRETE POST

KD1062\_STAMPING: HINTON 1949 1973

KD1062\_MARK LOGO: CGS

KD1062\_MAGNETIC: N = NO MAGNETIC MATERIAL

KD1062\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

KD1062+STABILITY: SURFACE MOTION

KD1062\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

KD1062+SATELLITE: SATELLITE OBSERVATIONS - June 05, 2008

KD1062

```

KD1062 HISTORY - Date      Condition      Report By
KD1062 HISTORY - 1949      MONUMENTED    CGS
KD1062 HISTORY - 1949      GOOD          CGS
KD1062 HISTORY - 1965      GOOD          CGS
KD1062 HISTORY - 1967      GOOD          CGS
KD1062 HISTORY - 1972      MARK NOT FOUND MSHD
KD1062 HISTORY - 1973      SEE DESCRIPTION NGS
KD1062 HISTORY - 1988      GOOD          USPSQD
KD1062 HISTORY - 19920303 GOOD          MODNR
KD1062 HISTORY - 20060207 GOOD          AIRDAT
KD1062 HISTORY - 20080605 GOOD          GEOCAC
  
```

KD1062

KD1062 STATION DESCRIPTION

KD1062

KD1062'DESCRIBED BY COAST AND GEODETIC SURVEY 1949 (MEW)

KD1062'THE STATION IS LOCATED ABOUT 8.0 MILES NORTH-NORTHWEST OF

KD1062'COLUMBIA, 0.85 MILE NORTH OF THE VILLAGE OF HINTON AND ALONG

KD1062'THE WEST SIDE OF HIGHWAY 63. IT IS 82 FEET NORTH OF A POWERLINE

KD1062'WITH A TRIANGLE BLAZE. 51 FEET WEST OF THE CENTERLINE OF THE

KD1062'HIGHWAY, 15 FEET EAST OF A FENCE AND 2.5 FEET SOUTHEAST OF A

KD1062'WITNESS POST. THE MARK IS FLUSH WITH THE SURFACE OF THE

KD1062'GROUND AND THE DISK IS STAMPED HINTON 1949.

KD1062'

KD1062'REFERENCE MARK NO.1 IS NORTHEAST OF THE STATION, 29 FEET EAST

KD1062'OF THE CENTERLINE OF THE HIGHWAY, 1.5 FEET SOUTHEAST OF A

KD1062'TELEPHONE POLE AND 1 FOOT WEST OF THE FENCE. THE MARK IS

KD1062'FLUSH WITH THE SURFACE OF THE GROUND AND THE DISK IS STAMPED

KD1062'HINTON NO1 1949.

KD1062'

KD1062'REFERENCE MARK NO.2 IS SOUTH-SOUTHWEST OF THE STATION, 40.5

KD1062' FEET SOUTH-SOUTHWEST OF A POWERLINE POLE WITH TRIANGLE BLAZE,  
KD1062' 34 FEET WEST OF THE CENTERLINE OF THE HIGHWAY AND 1 FOOT EAST  
KD1062' OF THE FENCE. THE MARK IS FLUSH WITH THE SURFACE OF THE  
KD1062' GROUND AND THE DISK IS STAMPED HINTON NO2 1949.

KD1062'

KD1062' AZIMUTH MARK IS ABOUT 0.2 MILE SOUTHWEST OF THE STATION,  
KD1062' 19 FEET NORTH OF THE CENTERLINE OF A DIRT ROAD, 2 FEET EAST  
KD1062' OF A WITNESS POST AND 1 FOOT SOUTH OF THE FENCE. THE MARK  
KD1062' PROJECTS 4 INCHES AND THE DISK IS STAMPED HINTON 1949.

KD1062'

KD1062' TO REACH FROM THE JUNCTION OF HIGHWAYS 63 AND 40 IN THE  
KD1062' NORTHWESTERLY EDGE OF COLUMBIA, GO NORTH ON HIGHWAY 63 FOR  
KD1062' 6.5 MILES TO THE VILLAGE OF HINTON, CONTINUE ON HIGHWAY 63  
KD1062' FOR 0.85 MILE TO THE STATION ON THE LEFT AT A POWERLINE  
KD1062' POLE WITH A TRIANGLE BLAZE.

KD1062'

KD1062' TO REACH THE AZIMUTH MARK FROM THE STATION, GO SOUTH ON  
KD1062' HIGHWAY 63 FOR 0.15 MILE TO A T ROAD RIGHT, TURN RIGHT  
KD1062' (WEST) 0.1 MILE TO THE MARK ON THE RIGHT,

KD1062'

KD1062' HEIGHT OF LIGHT ABOVE STATION MARK 26 METERS.

KD1062

KD1062 STATION RECOVERY (1949)

KD1062

KD1062' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1949

KD1062' RECOVERED IN GOOD CONDITION.

KD1062

KD1062 STATION RECOVERY (1965)

KD1062

KD1062' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1965 (WMR)

KD1062' ALL MARKS RECOVERED IN GOOD CONDITION. THE DESCRIPTION OF  
KD1062' THE STATION SITE IS GOOD. A NEW TO REACH FOLLOWS, TO REACH FROM  
KD1062' THE INTERSECTION OF BUSINESS ROUTE 63 AND BUSINESS LOOP 70 IN THE  
KD1062' NORTHWEST PART OF COLUMBIA GO NORTH ON U.S. 63 3.4 MILES  
KD1062' TO A CROSSROADS, STATE ROUTE VV, TURN LEFT AND CONTINUE  
KD1062' NORTHERLY ON ROUTE VV 2.7 MILES TO THE VILLAGE OF HINTON,  
KD1062' CONTINUE NORTH ON ROUTE VV 0.8 MILE TO THE STATION ON THE LEFT.

KD1062

KD1062 STATION RECOVERY (1967)

KD1062

KD1062' RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (LFS)

KD1062' THE STATION MARK, REFERENCE MARK NO. 1, REFERENCE MARK NO. 2, AND  
KD1062' THE AZIMUTH MARK WERE RECOVERED AS DESCRIBED AND FOUND IN GOOD  
KD1062' CONDITION.

KD1062'

KD1062' TO REACH THE STATION FROM THE JUNCTION OF BUSINESS ROUTE U.S.  
KD1062' HIGHWAY 63 AND BUSINESS LOOP 70 AT THE NORTHWEST EDGE OF COLUMBIA,  
KD1062' GO NORTH ON U.S. HIGHWAY 63 FOR 3.6 MILES TO THE JUNCTION OF  
KD1062' COUNTY ROAD VV. TURN LEFT AND GO NORTHERLY ON COUNTY ROAD VV FOR  
KD1062' 2.85 MILES TO THE VILLAGE OF HINTON. CONTINUE NORTH ON COUNTY  
KD1062' ROAD VV FOR 0.8 MILE TO THE STATION ON THE LEFT.

KD1062'

KD1062' A METAL WITNESS POST WAS SET 2 FEET NORTH OF THE STATION MARK.

KD1062'

KD1062' REFERENCE MARK NO. 1 IS 3.5 FEET NORTH-NORTHEAST OF A TELEPHONE  
KD1062' POLE AND 7 FEET NORTH-NORTHWEST OF A WATER METER COVER.

KD1062'

KD1062' REFERENCE MARK NO. 2 WAS RECOVERED AS DESCRIBED.

KD1062'

KD1062' A METAL WITNESS POST WAS SET 1 FOOT EAST OF THE AZIMUTH MARK.

KD1062'

KD1062' AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--ABOUT 0.85 MILE  
KD1062' NORTH OF THE VILLAGE OF HINTON.

KD1062

KD1062 STATION RECOVERY (1972)

KD1062

KD1062' RECOVERY NOTE BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 1972 (BS)

KD1062' HINTON 1949 SURFACE MARK DESTROYED. UNDERGROUND MARK FOUND IN GOOD  
KD1062' CONDITION.

KD1062'

KD1062' AZ MARK FOUND IN GOOD CONDITION.

KD1062'

KD1062'THE UNDERGROUND MARK IS ABOUT 3 FT. UNDERGROUND.  
KD1062'  
KD1062'DISTANCE AND DIRECTION FROM NEAREST TOWN--8 MI NORTH NORTHWEST OF  
KD1062'COLUMBIA MO.  
KD1062  
KD1062 STATION RECOVERY (1973)  
KD1062  
KD1062'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1973 (LFS)  
KD1062'THE SUB-SURFACE STATION MARK, REFERENCE MARKS 1 AND 2 AND THE AZIMUTH  
KD1062'MARK WERE RECOVERED AND FOUND IN GOOD CONDITION. THE SURFACE  
KD1062'STATION MARK WAS FOUND LYING ON TOP THE GROUND AND THE CONCRETE  
KD1062'MONUMENT WAS BROKE IN HALF. A NEW SURFACE STATION MARK WAS SET  
KD1062'DIRECTLY OVER THE UNDERGROUND STATION MARK. THE DESCRIPTION OF  
KD1062'THE STATION AND THE ROUTE TO REACH THE STATION IS ADEQUATE FOR  
KD1062'RECOVERY OF THE STATION. THE DIRECTION TO REFERENCE MARK 1 MISSED  
KD1062'THE PREVIOUS DIRECTION 3 MINUTES 14 SECONDS AND THE DISTANCE CHECKED  
KD1062'GOOD. THE DIRECTION TO REFERENCE MARK 2 MISSED THE PREVIOUS  
KD1062'DIRECTION 2 MINUTES 06 SECONDS AND THE DISTANCE MISSED THE PREVIOUS  
KD1062'DISTANCE 0.12 FOOT.  
KD1062'  
KD1062'FOLLOWING ARE ADDITIONAL NOTE FOR THE MARKS.  
KD1062'  
KD1062'THE SURFACE STATION MARK IS A STANDARD DISK STAMPED HINTON 1949  
KD1062'1973, SET IN THE TOP OF A 12 INCH CYLINDRICAL CONCRETE MONUMENT THAT  
KD1062'PROJECTS 3 INCHES ABOVE THE GROUND SURFACE.  
KD1062'  
KD1062'A METAL WITNESS POST WAS SET 1 FOOT NORTH OF REFERENCE MARK 1.  
KD1062'  
KD1062'A METAL WITNESS POST WAS SET 1 FOOT SOUTH OF REFERENCE MARK 2.  
KD1062'  
KD1062'A METAL WITNESS POST IS SET 1 FOOT EAST OF THE AZIMUTH MARK.  
KD1062'  
KD1062'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--8 MILES  
KD1062'NORTH-NORTHWEST OF COLUMBIA.  
KD1062  
KD1062 STATION RECOVERY (1988)  
KD1062  
KD1062'RECOVERY NOTE BY US POWER SQUADRON 1988 (PMD)  
KD1062'RECOVERED IN GOOD CONDITION.  
KD1062  
KD1062 STATION RECOVERY (1992)  
KD1062  
KD1062'RECOVERY NOTE BY MO DEPT OF NAT RES 1992  
KD1062'DATE OF REPORT 11-30-1992  
KD1062'STATION HINTON 1949 1973  
KD1062'STATION, AZIMUTH MARKS AND REFERENCE TIES  
KD1062'THE STATION IS A STANDARD NGS HOR. CONTROL DISK IN A 12 INCH ROUND  
KD1062'CONCRETE MON. PROJECTING 3 INCHES. IT IS LOCATED ON THE WEST R/W OF  
KD1062'ROUTE VV ABOUT 0.9 MI (1.4 KM) NORTH OF THE VILLAGE OF HINTON MO  
KD1062'UNDER A POWER LINE CROSSING THE HIGHWAY AND LEADING TO A SUBSTATION.  
KD1062'IT IS 60 FT (18.3 M) SOUTH OF THE ENTRANCE TO THE SUBSTATION, 50 FT  
KD1062'(15.2 M) WEST-NORTHWEST OF THE CENTERLINE OF ROUTE VV, AND 121.95 FT  
KD1062'(37.17 M) NORTH OF R.M. NO. 2, A STANDARD USC AND GS DISK STAMPED--  
KD1062'HINTON NO. 2 1949--SET IN A 10 IN. ROUND CONCRETE MON SET 5 IN. BELOW  
KD1062'THE GROUND SURFACE. R.M. NO. 2 IS LOCATED 40 FT (12.2 M) WEST OF  
KD1062'THE CENTERLINE OF ROUTE VV, 11 FT (3.4 M) SOUTH OF THE CENTERLINE  
KD1062'OF A PRIVATE ENTRANCE AND 1 FT (0.3 M) NORTHEAST OF A METAL WITNESS  
KD1062'POST AND SIGN.  
KD1062'THE AZIMUTH MARK WAS NOT RECOVERED.  
KD1062'STATION AND AZIMUTH MARK TO REACH  
KD1062'TO REACH THE STATION FROM I-70 EXIT 127 (RANGE LINE RD. AND MO. HWY.  
KD1062'763) IN THE NORTH PART OF COLUMBIA MO, GO NORTH ON HWY. 763 FOR 3.3  
KD1062'MI (5.3 KM) TO A TRAFFIC LIGHT INTERSECTION WITH ROUTE VV AT  
KD1062'PRATHERSVILLE. TURN LEFT AND FOLLOW ROUTE VV NORTHWESTERLY AND  
KD1062'NORTHERLY FOR 2.85 MI (4.59 KM) TO THE SMALL COMMUNITY OF HINTON.  
KD1062'CONTINUE NORTH ON ROUTE VV FOR 0.85 MI (1.37 KM) TO THE STATION SITE  
KD1062'ON THE LEFT (WEST) SIDE OF ROAD ON RAISED GROUND AND UNDER A POWER  
KD1062'LINE ABOUT 60 FT (18.3 M) SOUTH OF AN ENTRANCE TO A SUBSTATION FOR  
KD1062'RURAL ELECTRIC COOPERATIVES.  
KD1062  
KD1062 STATION RECOVERY (2006)  
KD1062

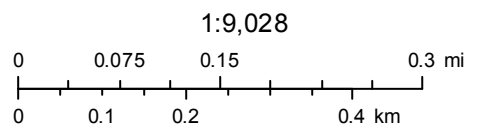




# BO 41



April 20, 2015



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community Missouri Department of Agriculture, Land Survey Program

# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

POINT 5014

CHECK HT WITH KNOWN ELEVATION

MEASURED ELEV = 573.435'

KNOWN ELEV = 174.806 m

1 METER = 39.37 US SURVEY FT

$$174.806 \times \frac{39.37}{1 \text{ m}} \times \frac{1}{12} = 573.509'$$

= 573.509'

KNOWN - MEAS = DIFFERENCE

$$573.509' - 573.435' = 0.074'$$

CONVERT TO CM

$$0.074' \times \frac{12''}{1'} \times \frac{2.54 \text{ cm}}{1''} = 2.25 \text{ cm}$$

= 2.25 cm

REQ'D ACCURACY

2 CM.

WITHIN ACCEPTABLE LIMITS

PROGRAM = datasheet95, VERSION = 8.7

1 National Geodetic Survey, Retrieval Date = APRIL 20, 2015

JD2869 \*\*\*\*\*

JD2869 DESIGNATION - BO 41  
JD2869 PID - JD2869  
JD2869 STATE/COUNTY- MO/BOONE  
JD2869 COUNTRY - US  
JD2869 USGS QUAD - HUNTSDALE (1985)

JD2869 \*CURRENT SURVEY CONTROL

JD2869\* NAD 83(2011) POSITION- 38 53 10.44471(N) 092 26 42.38833(W) ADJUSTED  
JD2869\* NAD 83(2011) ELLIP HT- 141.976 (meters) (06/27/12) ADJUSTED  
JD2869\* NAD 83(2011) EPOCH - 2010.00  
JD2869\* NAVD 88 ORTHO HEIGHT - 174.8 (meters) 573. (feet) VERTCON  
JD2869 ~~X USE ELLIP HT - GEOID HT~~ → 141.976 - (-32.63) = 174.806  
JD2869 GEOID HEIGHT - -32.83 (meters) GEOID12B  
JD2869 NAD 83(2011) X - -212,089.998 (meters) COMP  
JD2869 NAD 83(2011) Y - -4,966,849.986 (meters) COMP  
JD2869 NAD 83(2011) Z - 3,982,583.231 (meters) COMP  
JD2869 LAPLACE CORR - 1.07 (seconds) DEFLEC12B

JD2869 Network accuracy estimates per FGDC Geospatial Positioning Accuracy Standards:

JD2869	FGDC (95% conf, cm)		Standard deviation (cm)			CorrNE (unitless)
	Horiz	Ellip	SD_N	SD_E	SD_h	
JD2869	1.03	1.69	0.46	0.37	0.86	-0.07415627

JD2869 Click [here](#) for local accuracies and other accuracy information.

JD2869.The horizontal coordinates were established by GPS observations and adjusted by the National Geodetic Survey in June 2012.

JD2869.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has been affixed to the stable North American tectonic plate. See JD2869.NA2011 for more information.

JD2869.The horizontal coordinates are valid at the epoch date displayed above which is a decimal equivalence of Year/Month/Day.

JD2869.The NAVD 88 height was computed by applying the VERTCON shift value to the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

JD2869.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JD2869.The Laplace correction was computed from DEFLEC12B derived deflections.

JD2869.The ellipsoidal height was determined by GPS observations and is referenced to NAD 83.

JD2869. The following values were computed from the NAD 83(2011) position.

JD2869;	North	East	Units	Scale	Factor	Converg.
JD2869;SPC MO C	- 338,803.475	504,762.396	MT	0.99993361	+0 02 04.1	
JD2869;UTM 15	- 4,304,298.344	548,126.093	MT	0.99962852	+0 20 54.1	
JD2869!	- Elev Factor x Scale Factor = Combined Factor					
JD2869!SPC MO C	- 0.99997772 x 0.99993361 = 0.99991134					
JD2869!UTM 15	- 0.99997772 x 0.99962852 = 0.99960625					

JD2869 SUPERSEDED SURVEY CONTROL

JD2869  
 JD2869 NAD 83(2007)- 38 53 10.44471(N) 092 26 42.38899(W) AD(2002.00) 0  
 JD2869 ELLIP H (02/10/07) 142.006 (m) GP(2002.00)  
 JD2869 NAD 83(1997)- 38 53 10.44472(N) 092 26 42.38927(W) AD( ) 1  
 JD2869 ELLIP H (02/17/00) 142.007 (m) GP( ) 4 1  
 JD2869 NAD 83(1986)- 38 53 10.45338(N) 092 26 42.39350(W) AD( ) 1  
 JD2869 NGVD 29 (09/27/93) 174.8 (m) GEOID93 model used GPS OBS

JD2869  
 JD2869.Superseded values are not recommended for survey control.  
 JD2869

JD2869.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 JD2869.[See file dsdata.txt](#) to determine how the superseded data were derived.  
 JD2869

JD2869\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SWD4812604298(NAD 83)

JD2869

JD2869\_MARKER: DD = SURVEY DISK

JD2869\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JD2869\_SP\_SET: CONCRETE POST

JD2869\_STAMPING: BO-41 1992

JD2869\_MARK LOGO: MODNR

JD2869\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

JD2869\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JD2869+STABILITY: SURFACE MOTION

JD2869\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JD2869+SATELLITE: SATELLITE OBSERVATIONS - November 19, 2011

JD2869

JD2869	HISTORY	- Date	Condition	Report By
JD2869	HISTORY	- 1992	MONUMENTED	MODNR
JD2869	HISTORY	- 20080615	GOOD	GEOCAC
JD2869	HISTORY	- 20111119	GOOD	EISENB

JD2869

#### STATION DESCRIPTION

JD2869

JD2869'DESCRIBED BY MO DEPT OF NAT RES 1992

JD2869'DATE OF REPORT 11-30-1992

JD2869'STATION BO-41

JD2869'STATION, AZIMUTH MARKS AND REFERENCE TIES

JD2869'THE STATION IS A STANDARD DNR GRS ALUMINUM DISK STAMPED--BO-41 1992--  
 JD2869'SET IN A 12 INCH DIAMETER CONCRETE POST. THE UNDERGROUND STATION IS A  
 JD2869'STANDARD DNR GRS ALUMINUM DISK STAMPED--BO-41U 1992--SET IN A MASS OF  
 JD2869'CONCRETE. THE STATION IS LOCATED ON THE NORTH RIGHT-OF-WAY OF  
 JD2869'HIGHWAY K AND ON THE SOUTH RIGHT-OF-WAY OF KATY TRAIL AND ON THE  
 JD2869'EASTERN SIDE OF THE COMMUNITY OF MCBAIN MISSOURI. THE STATION IS  
 JD2869'APPROXIMATELY 40 FEET NORTH OF THE CENTERLINE OF K, 11.5 FT (3.5 M)  
 JD2869'SOUTHWEST OF CENTERLINE OF KATY TRAIL, 50.85 FT (15.50 M) NORTHEAST  
 JD2869'OF A NAIL AND SHINER IN A UTILITY BRACE POLE AND 136 FEET NORTHEAST  
 JD2869'OF THE CENTERLINE OF KATY STREET, 19.25 FT (5.87 M) SOUTHWEST OF A  
 JD2869'NAIL AND SHINER IN A WOODEN POST, 6.26 FT (1.91 M) NORTHWEST OF A  
 JD2869'NAIL AND SHINER IN A WOODEN POST AND WITNESS POST.

JD2869'THE AZIMUTH MARK IS A D.N.R. ALUMINUM G.R.S. DISK SET IN A DRILL HOLE

JD2869'IN THE TOP OF THE CONCRETE ABUTMENT ON THE SOUTHEAST END OF BRIDGE

JD2869'NUMBER 169.7 ACROSS PERCHE CREEK OF THE KATY TRAIL (FORMERLY

JD2869'MISSOURI, KANSAS, TEXAS RAILROAD) ABOUT 0.24 MI (0.39 KM) NORTHWEST

JD2869'OF THE STATION, 1.45 FT (0.44 M) EAST OF THE WEST EDGE OF ABUTMENT,

JD2869'1.03 FT (0.31 M) WEST OF THE EAST EDGE, 3.41 FT (1.04 M) SOUTH OF

JD2869'THE NORTH EDGE, 2.05 FT (0.62 M) NAIL AND SHINER IN A WOODEN POST,

JD2869'8.2 FT (2.5 M) NORTHEAST OF THE CENTERLINE OF TRAIL, AND WITNESS

JD2869'POST AT NORTH END ABUTMENT.

JD2869'STATION AND AZIMUTH MARK TO REACH

JD2869'TO REACH THE STATION FROM THE INTERSECTION OF MO. HWY. 163 AND ROUTE K

JD2869'AT THE SOUTH EDGE OF COLUMBIA MO, FOLLOW ROUTE K SOUTHERLY AND

JD2869'WESTERLY FOR 5.2 MI (8.4 KM) TO THE FORMER CROSSING OF THE MISSOURI,

JD2869'KANSAS, AND TEXAS RAILROAD, NOW THE KATY TRAIL AT THE TOWN OF

JD2869'MCBAIN MO. THE STATION SITE IS ON THE RIGHT IN THE NORTHWEST ANGLE

JD2869'OF THE CROSSING AS DESCRIBED.

JD2869'TO REACH THE AZIMUTH MARK FROM THE STATION, GO NORTHWEST 0.24 MI

JD2869'(0.39 KM) ON KATY TRAIL TO BRIDGE OVER PERCHE CREEK AND THE MARK ON

JD2869'THE RIGHT AS DESCRIBED.

JD2869'SPECIAL INFORMATION

JD2869'U.S.G.S. BENCHMARK 10-RPA 1966, RESET 1970 - EAST OF STATION

JD2869'APPROXIMATELY 250 FT, LOCATED ON CONCRETE HEAD WALL ON SOUTH SIDE OF

JD2869'ROUTE K (3RD ORDER).

JD2869

JD2869 STATION RECOVERY (2008)

JD2869

JD2869'RECOVERY NOTE BY GEOCACHING 2008 (ATL)

JD2869'RECOVERED IN GOOD CONDITION.

JD2869

JD2869 STATION RECOVERY (2011)

JD2869

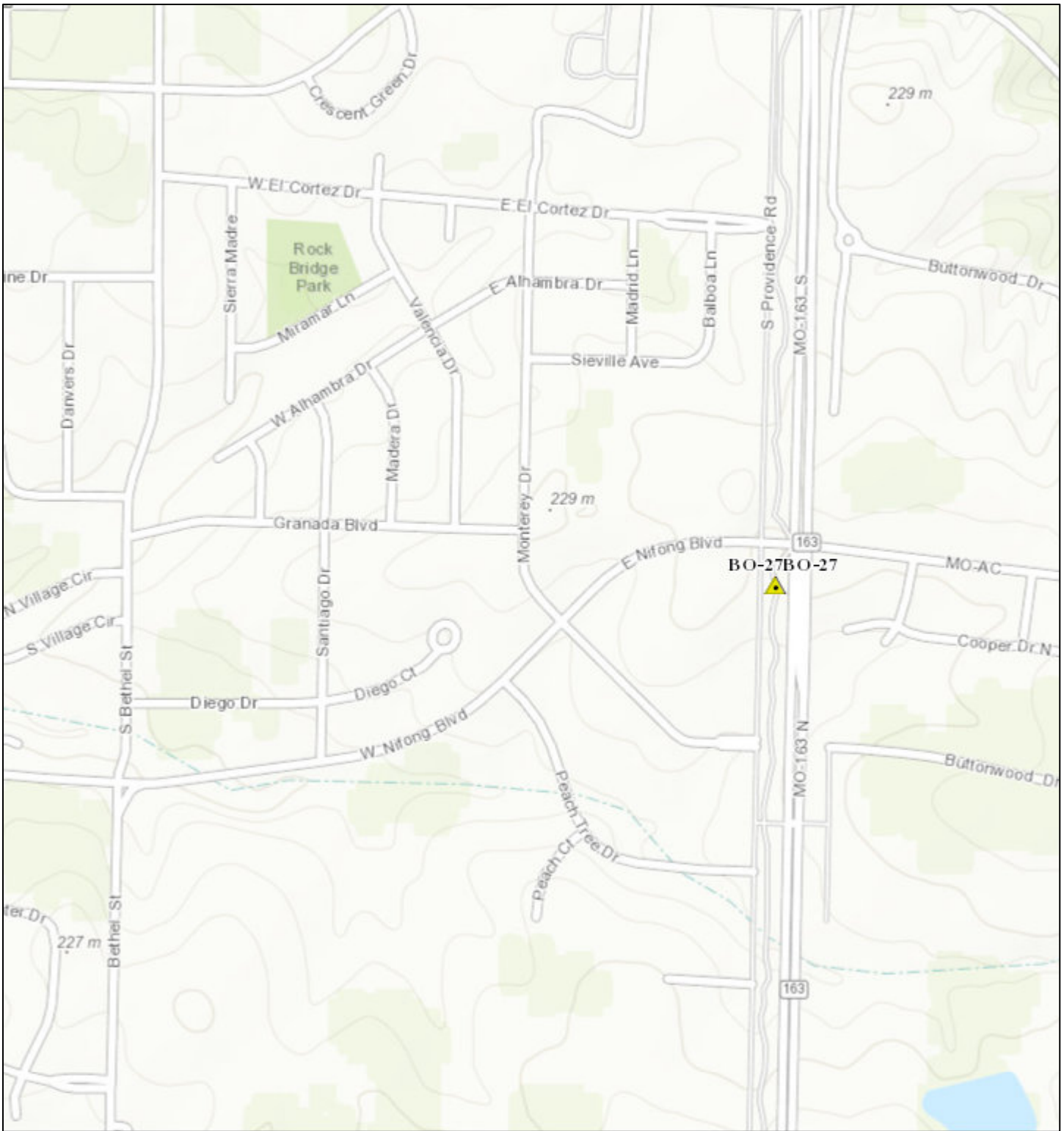
JD2869'RECOVERY NOTE BY EISENBRAUN AND ASSOCIATES INC 2011 (MCZ)

JD2869'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

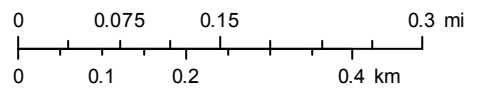
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# BO 27



April 20, 2015

1:9,028



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community Missouri Department of Agriculture, Land Survey Program

# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

POINT 5604

CHECK HT WITH KNOWN ELEVATION

MEASURED ELEV = 748.063'

PROGRAM = datasheet95, VERSION = 8.7  
 1 National Geodetic Survey, Retrieval Date = APRIL 20, 2015  
 JD2855 \*\*\*\*\*  
 JD2855 DESIGNATION - BO 27  
 JD2855 PID - JD2855  
 JD2855 STATE/COUNTY- MO/BOONE  
 JD2855 COUNTRY - US  
 JD2855 USGS QUAD - COLUMBIA (1981)  
 JD2855  
 JD2855 \*CURRENT SURVEY CONTROL  
 JD2855  
 JD2855\* NAD 83(2011) POSITION- 38 54 35.01464(N) 092 20 06.67431(W) ADJUSTED  
 JD2855\* NAD 83(2011) ELLIP HT- 195.271 (meters) (06/27/12) ADJUSTED  
 JD2855\* NAD 83(2011) EPOCH - 2010.00  
 JD2855\* NAVD 88 ORTHO HEIGHT - 228.0 (meters) 748. (feet) VERTCON  
 JD2855 ~~X, Y, Z~~ ELLIP HT - (GEOID HT) -> 195.271 - (-32.76) = 228.031  
 JD2855 GEOID HEIGHT - -32.76 (meters) GEOID12B  
 JD2855 NAD 83(2011) X - -202,495.796 (meters) COMP  
 JD2855 NAD 83(2011) Y - -4,965,652.907 (meters) COMP  
 JD2855 NAD 83(2011) Z - 3,984,646.381 (meters) COMP  
 JD2855 LAPLACE CORR - 2.33 (seconds) DEFLEC12B  
 JD2855  
 JD2855 Network accuracy estimates per FGDC Geospatial Positioning Accuracy Standards:  
 JD2855 FGDC (95% conf, cm) Standard deviation (cm) CorrNE  
 JD2855 Horiz Ellip SD\_N SD\_E SD\_h (unitless)  
 JD2855 -----  
 JD2855 NETWORK 0.91 1.69 0.39 0.35 0.86 0.01872256  
 JD2855 -----  
 JD2855 Click [here](#) for local accuracies and other accuracy information.  
 JD2855  
 JD2855 The horizontal coordinates were established by GPS observations  
 JD2855 and adjusted by the National Geodetic Survey in June 2012.  
 JD2855  
 JD2855 NAD 83(2011) refers to NAD 83 coordinates where the reference  
 JD2855 frame has been affixed to the stable North American tectonic plate. See  
 JD2855 [NA2011](#) for more information.  
 JD2855  
 JD2855 The horizontal coordinates are valid at the epoch date displayed above  
 JD2855 which is a decimal equivalence of Year/Month/Day.  
 JD2855  
 JD2855 The NAVD 88 height was computed by applying the VERTCON shift value to  
 JD2855 the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)  
 JD2855  
 JD2855 The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 JD2855  
 JD2855 The Laplace correction was computed from DEFLEC12B derived deflections.  
 JD2855  
 JD2855 The ellipsoidal height was determined by GPS observations  
 JD2855 and is referenced to NAD 83.  
 JD2855  
 JD2855 The following values were computed from the NAD 83(2011) position.  
 JD2855  
 JD2855;  
 JD2855;SPC MO C - North East Units Scale Factor Converg.  
 JD2855;UTM 15 - 341,422.673 514,294.306 MT 0.99993585 +0 06 12.7  
 JD2855;UTM 15 - 4,306,968.935 557,640.652 MT 0.99964091 +0 25 03.3  
 JD2855  
 JD2855!  
 JD2855!SPC MO C - Elev Factor x Scale Factor = Combined Factor  
 JD2855!UTM 15 - 0.99996936 x 0.99993585 = 0.99990522  
 JD2855!UTM 15 - 0.99996936 x 0.99964091 = 0.99961028  
 JD2855  
 JD2855 SUPERSEDED SURVEY CONTROL

KNOWN ELEV = 228.031 m

1 METER = 39.37 US SURVEY FT

$$228.031 \text{ m} \times \frac{39.37''}{1 \text{ m}} \times \frac{1'}{12''}$$

= 748.131'

KNOWN - MEAS = DIFFERENCE

$$748.131' - 748.063'$$

= 0.068'

CONVERT TO CM

$$0.068' \times \frac{12''}{1'} \times \frac{2.54 \text{ cm}}{1''}$$

= 2.07 cm

REQ'D ACCURACY

IS 2 CM

OKAY  
WITHIN  
ACCEPTABLE  
LIMITS

JD2855  
 JD2855 NAD 83(2007)- 38 54 35.01466(N) 092 20 06.67493(W) AD(2002.00) 0  
 JD2855 ELLIP H (02/10/07) 195.301 (m) GP(2002.00)  
 JD2855 NAD 83(1997)- 38 54 35.01463(N) 092 20 06.67534(W) AD( ) 1  
 JD2855 ELLIP H (02/17/00) 195.304 (m) GP( ) 4 1  
 JD2855 NAD 83(1986)- 38 54 35.02327(N) 092 20 06.67980(W) AD( ) 1  
 JD2855 NGVD 29 (09/27/93) 228.0 (m) GEOID93 model used GPS OBS

JD2855

JD2855.Superseded values are not recommended for survey control.

JD2855

JD2855.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

JD2855.[See file dsdata.txt](#) to determine how the superseded data were derived.

JD2855

JD2855\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SWD5764006968(NAD 83)

JD2855

JD2855\_MARKER: DD = SURVEY DISK

JD2855\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JD2855\_SP\_SET: CONCRETE POST

JD2855\_STAMPING: BO-27 1992

JD2855\_MARK LOGO: MODNR

JD2855\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

JD2855\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JD2855+STABILITY: SURFACE MOTION

JD2855\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JD2855+SATELLITE: SATELLITE OBSERVATIONS - June 05, 2008

JD2855

JD2855	HISTORY	- Date	Condition	Report By
JD2855	HISTORY	- 1992	MONUMENTED	MODNR
JD2855	HISTORY	- 20080605	GOOD	GEOCAC

JD2855

JD2855 STATION DESCRIPTION

JD2855

JD2855'DESCRIBED BY MO DEPT OF NAT RES 1992

JD2855'DATE OF REPORT 11-30-1992

JD2855'STATION BO-27

JD2855'STATION, AZIMUTH MARKS AND REFERENCE TIES

JD2855'THE STATION IS A STANDARD DNR GRS ALUMINUM DISK STAMPED--BO-27 1992--

JD2855'SET IN A 12 INCH DIAMETER CONCRETE POST. THE UNDERGROUND STATION IS A

JD2855'STANDARD DNR GRS ALUMINUM DISK STAMPED--BO-27U 1992--SET IN A MASS OF

JD2855'CONCRETE. THE STATION IS 1.8 MI (2.9 KM) SOUTH OF MEMORIAL STADIUM,

JD2855'1.95 MI (3.14 KM) SOUTH OF THE MO. RTE. 740 AND MO. RTE. 163

JD2855'INTERSECTION, AND 75 FT (22.9 M) SOUTHWEST OF THE MO. RTE. 163 AND

JD2855'MO. RTE. AC INTERSECTION, 61.0 FT (18.6 M) EAST OF THE CENTERLINE OF

JD2855'AN OUTER ROAD, 175 FT (53.3 M) SOUTH OF NIPHONG BLVD., 117.45 FT

JD2855'(35.80 M) SOUTHWEST OF A YIELD SIGN, 63.4 FT (19.3 M) WEST OF THE

JD2855'PAVEMENT EDGE OF MO. RTE. 163, 51.8 FT (15.8 M) NORTHWEST OF A MO.

JD2855'RTE. 163 HIGHWAY SIGN.

JD2855'THE AZIMUTH MARK IS A STANDARD DNR GRS ALUMINUM DISK STAMPED--BO-27A

JD2855'1992--SET IN A 12 IN. DIAMETER CONCRETE POST. IT IS 33.52 FT (10.22 M)

JD2855'SOUTH OF A NAIL AND SHINER IN A POWER POLE, 22.2 FT (6.8 M) WEST OF

JD2855'THE CENTERLINE OF THE WEST OUTER ROAD OF SOUTHBOUND MO. RTE. 163,

JD2855'34.5 FT (10.5 M) NORTH OF THE CENTERLINE OF AN ENTRANCE ROAD TO

JD2855'COLUMBIA AREA CAREER CENTER, AND 9.8 FT (3.0 M) NORTHEAST OF THE NW

JD2855'BOLT AT THE BASE OF A FIRE HYDRANT.

JD2855'STATION AND AZIMUTH MARK TO REACH

JD2855'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 63 AND OLD

JD2855'63, GO NORTH AND WEST ON OLD 63 FOR .10 MI (0.16 KM) TO MO. ROUTE AC

JD2855'(NIPHONG BLVD.). TURN LEFT AND GO SOUTH AND WEST ON MO. ROUTE AC FOR

JD2855'2.15 MI (3.46 KM) TO MO. ROUTE 163. CONTINUE WEST THROUGH

JD2855'INTERSECTION 200 FT (61.0 M) TO THE WEST OUTER ROAD. TURN LEFT AND

JD2855'GO SOUTH ON WEST OUTER ROAD FOR 175 FT (53.3 M) TO THE STATION ON

JD2855'THE LEFT AS DESCRIBED.

JD2855'TO REACH THE AZIMUTH MARK FROM THE STATION, GO SOUTH ON OUTER ROAD FOR

JD2855'.40 MI (0.64 KM) TO THE AZIMUTH MARK ON THE RIGHT AS DESCRIBED.

JD2855

JD2855 STATION RECOVERY (2008)

JD2855

JD2855'RECOVERY NOTE BY GEOCACHING 2008 (ATL)

JD2855'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02