

1 National Geodetic Survey, Retrieval Date = July 25, 2007

JV6335 *****

P0710

JV6335 DESIGNATION - GRIER
JV6335 PID - JV6335
JV6335 STATE/COUNTY- MD/HARFORD
JV6335 USGS QUAD - JARRETTSVILLE (1974)

JV6335 *CURRENT SURVEY CONTROL

JV6335* NAD 83(1991)- 39 35 51.38414(N) 076 23 28.73361(W) ADJUSTED
JV6335* NAVD 88 - 162.796 (meters) 534.11 (feet) ADJUSTED
JV6335 X - 1,157,954.874 (meters) COMP
JV6335 Y - -4,783,239.201 (meters) COMP
JV6335 Z - 4,043,742.617 (meters) COMP
JV6335 LAPLACE CORR- -2.40 (seconds) DEFLEC99
JV6335 ELLIP HEIGHT- 130.171 (meters) (09/18/02) GPS OBS
JV6335 GEOID HEIGHT- -32.63 (meters) GEOID03
JV6335 DYNAMIC HT - 162.712 (meters) 533.83 (feet) COMP
JV6335 MODELED GRAV- 980,110.7 (mgal) NAVD 88

JV6335 HORZ ORDER - FIRST
JV6335 VERT ORDER - FIRST CLASS II
JV6335 ELLP ORDER - FOURTH CLASS II

JV6335.The horizontal coordinates were established by GPS observations
and adjusted by the National Geodetic Survey in January 1992.

JV6335.The orthometric height was determined by differential leveling
and adjusted by the NATIONAL GEODETIC SURVEY in June 1991.

JV6335.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6335.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6335.The ellipsoidal height was determined by GPS observations
and is referenced to NAD 83.

JV6335.The geoid height was determined by GEOID03.

JV6335.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.).

JV6335.The modeled gravity was interpolated from observed gravity values.

JV6335; North East Units Scale Factor Converg.
JV6335;SPC MD - 214,526.299 452,282.919 MT 1.00002916 +0 22 55.3
JV6335;SPC MD - 703,825.03 1,483,864.88 sFT 1.00002916 +0 22 55.3
JV6335;UTM 18 - 4,384,021.631 380,541.381 MT 0.99977569 -0 53 12.9

JV6335! - Elev Factor x Scale Factor = Combined Factor
JV6335!SPC MD - 0.99997958 x 1.00002916 = 1.00000874
JV6335!UTM 18 - 0.99997958 x 0.99977569 = 0.99975527

JV6335

JV6335	PID	Reference Object	Distance	Geod. Az
JV6335				ddmmss.s
JV6335	JV6336	GRIER AZ MK	290.496 METERS	03047

JV6335
 JV6335 SUPERSEDED SURVEY CONTROL

JV6335	ELLIP H (01/27/92)	130.155 (m)		GP()	4 1
JV6335	NAD 83(1986)-	39 35 51.37729(N)	076 23 28.74041(W)	AD()	1
JV6335	NGVD 29 (06/18/91)	163.04 (m)	534.9 (f)	LEVELING	3

JV6335.Superseded values are not recommended for survey control.
 JV6335.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JV6335.[See file dsdata.txt](#) to determine how the superseded data were derived.

JV6335_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8054184022(NAD 83)
 JV6335_MARKER: DD = SURVEY DISK
 JV6335_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 JV6335_SP_SET: CONCRETE POST
 JV6335_STAMPING: 71 GRIER 1989
 JV6335_MARK LOGO: MD-025
 JV6335_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 JV6335_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 JV6335+STABILITY: SURFACE MOTION
 JV6335_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 JV6335+SATELLITE: SATELLITE OBSERVATIONS - May 11, 2004

JV6335	HISTORY	- Date	Condition	Report By
JV6335	HISTORY	- 1989	MONUMENTED	RDA
JV6335	HISTORY	- 20040511	GOOD	DMW

JV6335
 JV6335 STATION DESCRIPTION

JV6335'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
 JV6335'THE STATION IS LOCATED IN CENTRAL HARFORD COUNTY, MARYLAND ABOUT 4
 JV6335'MILES NORTHWEST OF BEL AIR. TO REACH THE STATION FROM THE
 JV6335'INTERSECTION OF STATE HIGHWAY 24 AND STATE HIGHWAY 23 PROCEED NORTH
 JV6335'ALONG HIGHWAY 24 1.5 MILES TO ITS INTERSECTION WITH GRIER NURSERY
 JV6335'ROAD AND THE STATION ON THE LEFT. THE STATION IS A STANDARD HARFORD
 JV6335'COUNTY STATION DISC SET IN CONCRETE ABOUT 1 INCH BELOW GROUND STAMPED
 JV6335'71 GRIER 1989. THE STATION IS 16.9 FEET NORTHWEST OF THE CENTERLINE
 JV6335'OF HIGHWAY 24, 3.4 FEET NORTHEAST OF G AND E POWER POLE NUMBER
 JV6335'723213, AND 27.8 FEET SOUTHWEST OF THE CENTERLINE OF DRIVEWAY POST
 JV6335'BOX NUMBER 2630.

JV6335
 JV6335 STATION RECOVERY (2004)

JV6335'RECOVERY NOTE BY DAFT MCCUNE WALKER INCORPORATED 2004
 JV6335'RECOVERED AS DESCRIBED

**RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
NAD 83/86 COORDINATES - NGVD29 ELEVATIONS**

LATITUDE	039 35 51.37743	NORTH(sf)	703824.351
LONGITUDE	076 23 28.74033	EAST(sf)	1483864.356
GRID AZ.	030 23 48.5	ELEV. LEVEL OBS.	534.92 ft

1 National Geodetic Survey, Retrieval Date = July 25, 2007

JV6336 *****

P0711

JV6336 DESIGNATION - GRIER AZ MK
JV6336 PID - JV6336
JV6336 STATE/COUNTY- MD/HARFORD
JV6336 USGS QUAD - JARRETTSVILLE (1974)

JV6336 *CURRENT SURVEY CONTROL

JV6336* NAD 83(1991)- 39 35 59.47661(N) 076 23 22.50297(W) ADJUSTED
JV6336* NAVD 88 - 152.779 (meters) 501.24 (feet) ADJUSTED
JV6336 X - 1,158,060.104 (meters) COMP
JV6336 Y - -4,783,042.080 (meters) COMP
JV6336 Z - 4,043,928.525 (meters) COMP
JV6336 LAPLACE CORR- -2.41 (seconds) DEFLEC99
JV6336 ELLIP HEIGHT- 120.127 (meters) (09/18/02) GPS OBS
JV6336 GEOID HEIGHT- -32.63 (meters) GEOID03
JV6336 DYNAMIC HT - 152.701 (meters) 500.99 (feet) COMP
JV6336 MODELED GRAV- 980,111.3 (mgal) NAVD 88

JV6336 HORZ ORDER - FIRST
JV6336 VERT ORDER - FIRST CLASS II
JV6336 ELLP ORDER - FOURTH CLASS II

JV6336.The horizontal coordinates were established by GPS observations
and adjusted by the National Geodetic Survey in January 1992.

JV6336.The orthometric height was determined by differential leveling
and adjusted by the NATIONAL GEODETIC SURVEY in June 1991.

JV6336.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6336.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6336.The ellipsoidal height was determined by GPS observations
and is referenced to NAD 83.

JV6336.The geoid height was determined by GEOID03.

JV6336.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.).

JV6336.The modeled gravity was interpolated from observed gravity values.

JV6336; North East Units Scale Factor Converg.
JV6336;SPC MD - 214,776.872 452,429.909 MT 1.00002965 +0 22 59.2
JV6336;SPC MD - 704,647.12 1,484,347.13 sFT 1.00002965 +0 22 59.2
JV6336;UTM 18 - 4,384,268.825 380,693.846 MT 0.99977524 -0 53 09.1

JV6336! - Elev Factor x Scale Factor = Combined Factor
JV6336!SPC MD - 0.99998115 x 1.00002965 = 1.00001080
JV6336!UTM 18 - 0.99998115 x 0.99977524 = 0.99975640

JV6336

PID	Reference Object	Distance	Geod. Az
			ddmmss.s
JV6335	GRIER	290.496 METERS	21047

JV6336
 JV6336 SUPERSEDED SURVEY CONTROL

JV6336	ELLIP H (01/27/92)	120.112 (m)	GP()	4 1
JV6336	NAD 83(1986)-	39 35 59.46975(N)	076 23 22.50976(W)	AD() 1
JV6336	NGVD 29 (06/18/91)	153.03 (m)	502.1 (f)	LEVELING 3

JV6336.Superseded values are not recommended for survey control.
 JV6336.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JV6336.[See file dsdata.txt](#) to determine how the superseded data were derived.
 JV6336

JV6336_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8069484269(NAD 83)

JV6336_MARKER: DZ = AZIMUTH MARK DISK

JV6336_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JV6336_SP_SET: CONCRETE POST

JV6336_STAMPING: 71 GRIER 1989

JV6336_MARK LOGO: MD-025

JV6336_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

JV6336_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JV6336+STABILITY: SURFACE MOTION

JV6336_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JV6336+SATELLITE: SATELLITE OBSERVATIONS - January 02, 1990

JV6336

HISTORY	- Date	Condition	Report By
JV6336	HISTORY	- 1989	MONUMENTED RDA
JV6336	HISTORY	- 19900102	GOOD

JV6336

JV6336 STATION DESCRIPTION

JV6336

JV6336'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989

JV6336'THE STATION IS LOCATED IN CENTRAL HARFORD COUNTY, MARYLAND ABOUT 4

JV6336'MILES NORTHWEST OF BEL AIR. TO REACH THE STATION FROM THE

JV6336'INTERSECTION OF STATE HIGHWAY 24 AND STATE HIGHWAY 23 PROCEED NORTH

JV6336'ALONG HIGHWAY 24 1.5 MILES TO ITS INTERSECTION WITH GRIER NURSERY

JV6336'ROAD AND THE STATION ON THE LEFT. TO REACH THE AZIMUTH MARK FROM THE

JV6336'STATION PROCEED EAST ALONG GRIER NURSERY ROAD 0.18 MILE TO THE MARK

JV6336'ON THE RIGHT. THE MARK IS A STANDARD HARFORD COUNTY AZIMUTH DISC SET

JV6336'IN CONCRETE ABOUT 1 INCH BELOW GROUND STAMPED 71 GRIER 1989. THE

JV6336'MARK IS 6.8 FEET SOUTHWEST OF MAIL BOX POST BOX 2717, 32.1 FEET

JV6336'NORTHEAST OF C AND P OF MARYLAND POLE NUMBER 5, 22.0 FEET SOUTHEAST

JV6336'OF THE CENTERLINE OF GRIER NURSERY ROAD, AND 953.08 FEET FROM THE

JV6336'STATION.

JV6336

JV6336 STATION RECOVERY (1990)

JV6336

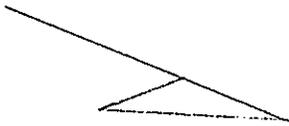
JV6336'RECOVERED 1990

JV6336'RECOVERED IN GOOD CONDITION.

**RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
NAD 83/86 COORDINATES - NGVD29 ELEVATIONS**

LATITUDE	039 35 59.46991	NORTH(sf)	704646.439
LONGITUDE	076 23 22.50963	EAST(sf)	1484346.611
GRID AZ.	210 23 48.5	ELEV. LEVEL OBS.	502.05 ft

71 GRIER 1989



MAIL BOX POST
BOX 2717

32.1' O C+P MD POLE #5



GRIER NURSERY ROAD

SOUTH WEST BOUND LANE

GRIER NURSERY ROAD

SOUTH WEST BOUND LANE

SOUTH BOUND LANE

ROUTE 24

PRIVATE DRIVE
BOX 2630

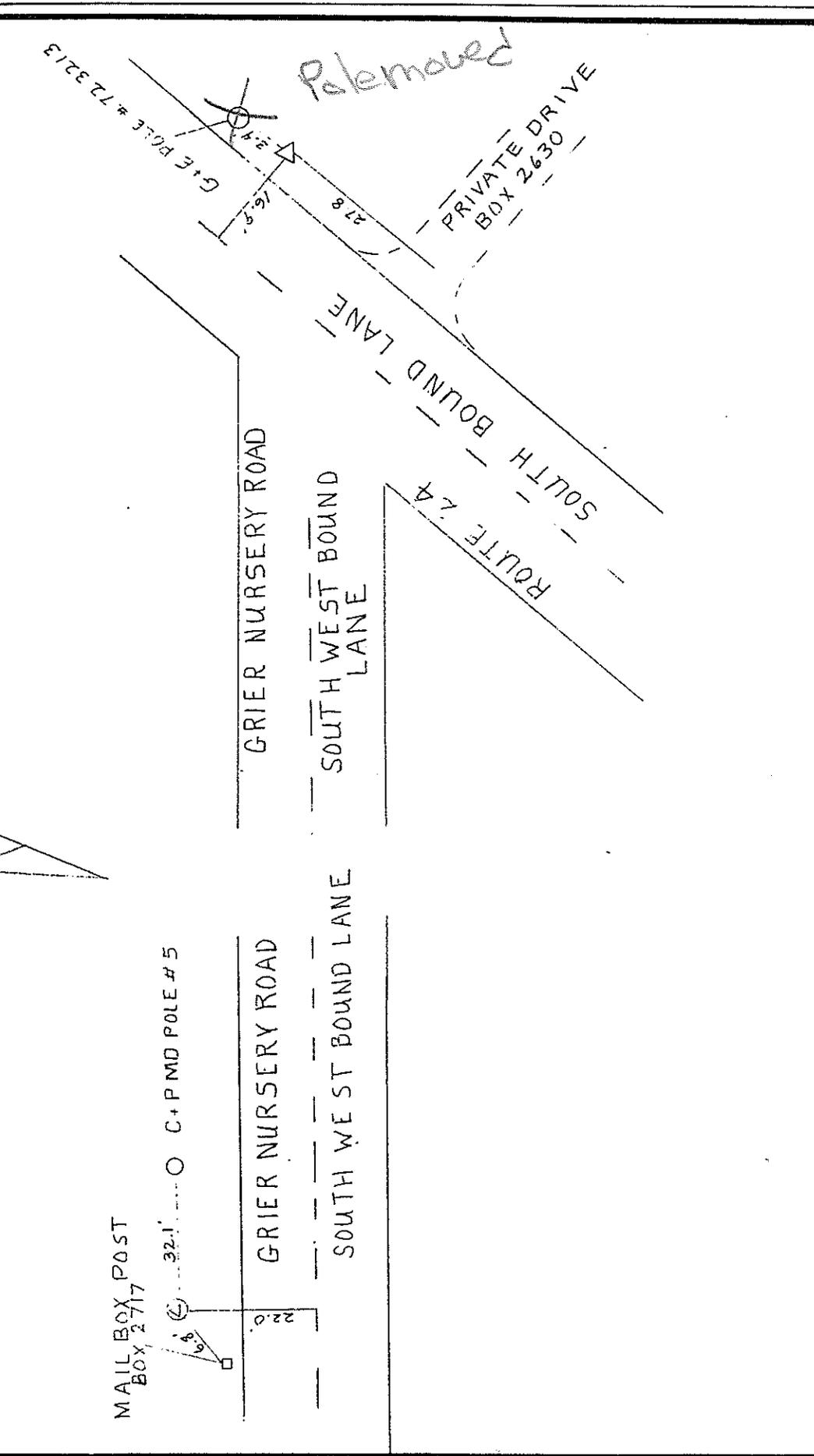
Palenobed

G+P POLE # 723213



27.8'

76.5'



RINKER-DETWILER & ASSOCIATES, P.C.

Engineering • Surveying • Land Planning
Global Positioning System • Mapping