

1 National Geodetic Survey, Retrieval Date = July 25, 2007  
 JV6789 \*\*\*\*\*

**P0480**

JV6789 DESIGNATION - KNOLLWOOD  
 JV6789 PID - JV6789  
 JV6789 STATE/COUNTY- MD/HARFORD  
 JV6789 USGS QUAD - BEL AIR (1986)  
 JV6789  
 JV6789 \*CURRENT SURVEY CONTROL  
 JV6789  
 JV6789\* NAD 83(1991)- 39 34 09.08586(N) 076 19 57.86884(W) ADJUSTED  
 JV6789\* NAVD 88 - 130.6 (meters) 428. (feet) GPS OBS  
 JV6789  
 JV6789 X - 1,163,313.310 (meters) COMP  
 JV6789 Y - -4,783,982.163 (meters) COMP  
 JV6789 Z - 4,041,290.457 (meters) COMP  
 JV6789 LAPLACE CORR- -3.05 (seconds) DEFLEC99  
 JV6789 ELLIP HEIGHT- 97.843 (meters) (08/30/02) GPS OBS  
 JV6789 GEOID HEIGHT- -32.71 (meters) GEOID03  
 JV6789  
 JV6789 HORZ ORDER - FIRST  
 JV6789 ELLP ORDER - FOURTH CLASS II  
 JV6789

JV6789.The horizontal coordinates were established by GPS observations  
 JV6789.and adjusted by the National Geodetic Survey in January 1992.

JV6789.The orthometric height was determined by GPS observations and a  
 JV6789.high-resolution geoid model.

JV6789.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6789.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6789.The ellipsoidal height was determined by GPS observations  
 JV6789.and is referenced to NAD 83.

JV6789.The geoid height was determined by GEOID03.

JV6789;  
 JV6789; SPC MD - North East Units Scale Factor Converg.  
 JV6789; SPC MD - 211,406.508 457,337.061 MT 1.00002302 +0 25 07.7  
 JV6789; SPC MD - 693,589.52 1,500,446.67 sFT 1.00002302 +0 25 07.7  
 JV6789; UTM 18 - 4,380,791.558 385,523.941 MT 0.99976134 -0 50 56.6  
 JV6789  
 JV6789! - Elev Factor x Scale Factor = Combined Factor  
 JV6789! SPC MD - 0.99998465 x 1.00002302 = 1.00000767  
 JV6789! UTM 18 - 0.99998465 x 0.99976134 = 0.99974599

PID	Reference Object	Distance	Geod. Az
			ddmmss.s
JV6790	KNOLLWOOD AZ MK	297.087 METERS	32905

JV6789  
 JV6789 SUPERSEDED SURVEY CONTROL  
 JV6789  
 JV6789 ELLIP H (01/27/92) 97.841 (m) GP( ) 4 1  
 JV6789 NAD 83(1986)- 39 34 09.07897(N) 076 19 57.87568(W) AD( ) 1



1 National Geodetic Survey, Retrieval Date = July 25, 2007  
 JV6790 \*\*\*\*\*

JV6790 DESIGNATION - KNOLLWOOD AZ MK P0481

JV6790 PID - JV6790  
 JV6790 STATE/COUNTY- MD/HARFORD  
 JV6790 USGS QUAD - BEL AIR (1986)

JV6790 \*CURRENT SURVEY CONTROL

JV6790\* NAD 83(1991)- 39 34 17.35047(N) 076 20 04.26320(W) ADJUSTED  
 JV6790\* NAVD 88 - 133.8 (meters) 439. (feet) VERTCON

JV6790 X - 1,163,127.232 (meters) COMP  
 JV6790 Y - -4,783,862.877 (meters) COMP  
 JV6790 Z - 4,041,489.002 (meters) COMP  
 JV6790 LAPLACE CORR- -2.88 (seconds) DEFLEC99  
 JV6790 ELLIP HEIGHT- 101.083 (meters) (09/18/02) GPS OBS  
 JV6790 GEOID HEIGHT- -32.70 (meters) GEOID03

JV6790 HORZ ORDER - FIRST  
 JV6790 ELLP ORDER - FOURTH CLASS II

JV6790.The horizontal coordinates were established by GPS observations  
 JV6790.and adjusted by the National Geodetic Survey in January 1992.

JV6790.The NAVD 88 height was computed by applying the VERTCON shift value to  
 JV6790.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

JV6790.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6790.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6790.The ellipsoidal height was determined by GPS observations

JV6790.and is referenced to NAD 83.

JV6790.The geoid height was determined by GEOID03.

	North	East	Units	Scale Factor	Converg.
JV6790; SPC MD	- 211,660.279	457,182.577	MT	1.00002351	+0 25 03.6
JV6790; SPC MD	- 694,422.10	1,499,939.84	sFT	1.00002351	+0 25 03.6
JV6790; UTM 18	- 4,381,048.618	385,375.149	MT	0.99976176	-0 51 00.8

JV6790!  
 JV6790! SPC MD - Elev Factor x Scale Factor = Combined Factor  
 - 0.99998414 x 1.00002351 = 1.00000765  
 JV6790! UTM 18 - 0.99998414 x 0.99976176 = 0.99974591

PID	Reference Object	Distance	Geod. Az
			ddmmss.s
JV6789	KNOLLWOOD	297.087 METERS	14905

JV6790 SUPERSEDED SURVEY CONTROL

JV6790 ELLIP H (01/27/92) 101.081 (m) GP( ) 4 1  
 JV6790 NAD 83(1986)- 39 34 17.34357(N) 076 20 04.27004(W) AD( ) 1

JV6790 NGVD 29 (06/18/91) 134.0 (m) 440. (f) GPS OBS  
JV6790

JV6790.Superseded values are not recommended for survey control.  
JV6790.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
JV6790.[See file dsdata.txt](#) to determine how the superseded data were derived.  
JV6790

JV6790\_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8537581049(NAD 83)

JV6790\_MARKER: DZ = AZIMUTH MARK DISK

JV6790\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

JV6790\_SP\_SET: CONCRETE POST

JV6790\_STAMPING: 48 KNOLLWOOD 1989

JV6790\_MARK LOGO: MD-025

JV6790\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET

JV6790\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

JV6790+STABILITY: SURFACE MOTION

JV6790\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

JV6790+SATELLITE: SATELLITE OBSERVATIONS - 1989

JV6790

JV6790	HISTORY	- Date	Condition	Report By
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JV6790	HISTORY	- 1989	MONUMENTED	RDA
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JV6790

JV6790 STATION DESCRIPTION

JV6790

JV6790'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989

JV6790'TO REACH THE AZIMUTH MARK FROM THE STATION PROCEED NORTHWEST ALONG

JV6790'HIGHWAY 543 0.18 MILES TO THE MARK ON THE RIGHT.

JV6790'THE MARK IS A STANDARD HARFORD COUNTY AZIMUTH DISK SET IN CONCRETE

JV6790'ABOUT 1 INCH BELOW GROUND STAMPED 48 KNOLLWOOD 1989. THE MARK IS 21.5

JV6790'FEET SOUTH OF THE CENTERLINE OF A PRIVATE DRIVE ADDRESS BOX 1600A, 9.0

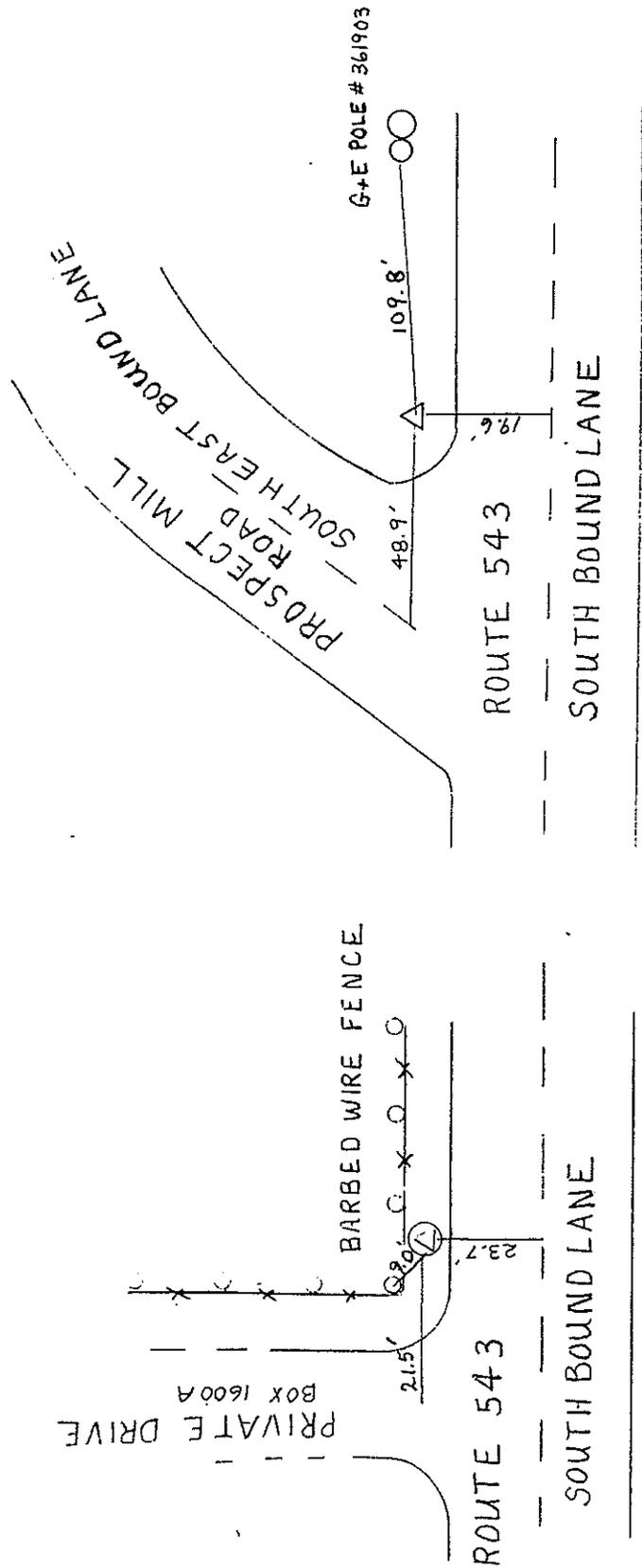
JV6790'FEET SOUTHWEST OF BARBED WIRE FENCE CORNER, 23.7 FEET EAST OF THE

JV6790'CENTER LINE OF HIGHWAY 543 AND 974.71 FEET FROM THE STATION.

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

LATITUDE	039 34 17.34379	NORTH(sf)	694421.418
LONGITUDE	076 20 04.26989	EAST(sf)	1499939.319
GRID AZ.	148 40 08.9	ELEV.	GPS OBS. 439.84 ft

48 KNOLLWOOD 1989



RINKER-DETWILER & ASSOCIATES, P.C.

Engineering • Surveying • Land Planning  
Global Positioning System • Mapping