

1 National Geodetic Survey, Retrieval Date = July 25, 2007  
JV6770 \*\*\*\*\*

JV6770 DESIGNATION - HEAP  
JV6770 PID - JV6770  
JV6770 STATE/COUNTY- MD/HARFORD  
JV6770 USGS QUAD - DELTA (1990)

**P0970**

JV6770 \*CURRENT SURVEY CONTROL

JV6770  
JV6770\* NAD 83(1991)- 39 40 41.20093(N) 076 20 48.78525(W) ADJUSTED  
JV6770\* NAVD 88 - 107.5 (meters) 353. (feet) VERTCON  
JV6770  
JV6770 X - 1,160,307.699 (meters) COMP  
JV6770 Y - -4,776,757.455 (meters) COMP  
JV6770 Z - 4,050,590.702 (meters) COMP  
JV6770 LAPLACE CORR- -2.45 (seconds) DEFLEC99  
JV6770 ELLIP HEIGHT- 74.843 (meters) (09/18/02) GPS OBS  
JV6770 GEOID HEIGHT- -32.71 (meters) GEOID03

JV6770 HORZ ORDER - FIRST  
JV6770 ELLP ORDER - FOURTH CLASS II

JV6770.The horizontal coordinates were established by GPS observations  
JV6770.and adjusted by the National Geodetic Survey in January 1992.

JV6770  
JV6770.The NAVD 88 height was computed by applying the VERTCON shift value to  
JV6770.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

JV6770  
JV6770.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6770  
JV6770.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6770  
JV6770.The ellipsoidal height was determined by GPS observations  
JV6770.and is referenced to NAD 83.

JV6770  
JV6770.The geoid height was determined by GEOID03.

JV6770  
JV6770;  
JV6770;SPC MD - North East Units Scale Factor Converg.  
JV6770;SPC MD - 223,491.034 456,035.224 MT 1.00004787 +0 24 35.7  
JV6770;SPC MD - 733,236.83 1,496,175.56 sFT 1.00004787 +0 24 35.7  
JV6770;UTM 18 - 4,392,898.652 384,490.314 MT 0.99976427 -0 51 36.2

JV6770  
JV6770!  
JV6770!SPC MD - Elev Factor x Scale Factor = Combined Factor  
JV6770!SPC MD - 0.99998826 x 1.00004787 = 1.00003613  
JV6770!UTM 18 - 0.99998826 x 0.99976427 = 0.99975253

JV6770  
JV6770 SUPERSEDED SURVEY CONTROL

JV6770  
JV6770 ELLIP H (01/27/92) 74.842 (m) GP( ) 4 1  
JV6770 NAD 83(1986)- 39 40 41.19380(N) 076 20 48.79148(W) AD( ) 1  
JV6770 NGVD 29 (06/18/91) 107.8 (m) 354. (f) GPS OBS

JV6770  
JV6770.Superseded values are not recommended for survey control.  
JV6770.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
JV6770.[See file dsdata.txt](#) to determine how the superseded data were derived.

JV6770

JV6770\_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8449092899(NAD 83)  
 JV6770\_MARKER: DD = SURVEY DISK  
 JV6770\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
 JV6770\_SP\_SET: CONCRETE POST  
 JV6770\_STAMPING: 97 HEAP 1989  
 JV6770\_MARK LOGO: MD-025  
 JV6770\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET  
 JV6770\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 JV6770+STABILITY: SURFACE MOTION  
 JV6770\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 JV6770+SATELLITE: SATELLITE OBSERVATIONS - 1989

JV6770  
 JV6770 HISTORY - Date Condition Report By  
 JV6770 HISTORY - 1989 MONUMENTED RDA  
 JV6770 HISTORY - 20010421 MARK NOT FOUND USPSQD

JV6770  
 JV6770 STATION DESCRIPTION  
 JV6770

JV6770'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989  
 JV6770'THE STATION IS LOCATED IN NORTH CENTRAL HARFORD COUNTY, MARYLAND ABOUT  
 JV6770'1.5 MILES EAST OF THE VILLAGE OF PYLESVILLE.  
 JV6770'TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 136 AND  
 JV6770'STATE HIGHWAY 165 IN THE VILLAGE OF WHITEFORD PROCEED SOUTHEAST ALONG  
 JV6770'HIGHWAY 136 1.9 MILES TO ITS INTERSECTION WITH HEAPS ROAD. TURN RIGHT  
 JV6770'AND PROCEED SOUTHWEST ALONG HEAPS ROAD 2.05 MILES TO THE STATION ON  
 JV6770'THE RIGHT.  
 JV6770'THE STATION IS A STANDARD HARFORD COUNTY STATION DISK SET IN CONCRETE  
 JV6770'ABOUT 1 INCH BELOW GROUND STAMPED 97 HEAP 1989. THE STATION IS 8.6  
 JV6770'FEET SOUTHWEST OF CONOWINGO POWER POLE NUMBER 13815, 28.5 FEET  
 JV6770'NORTHWEST OF THE CENTERLINE OF HEAPS ROAD, AND 108.5 FEET EAST OF COW  
 JV6770'CROSSING CAUTION SIGN.

JV6770  
 JV6770 STATION RECOVERY (2001)  
 JV6770

JV6770'RECOVERY NOTE BY US POWER SQUADRON 2001 (JB)  
 JV6770'DENSE VINES AND THORNS IN AREA.

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

LATITUDE	039 40 41.19439	NORTH(sf)	733236.170
LONGITUDE	076 20 48.79041	EAST(sf)	1496175.164
GRID AZ.	235 05 33.6	ELEV. GPS OBS.	353.54 ft.

1 National Geodetic Survey, Retrieval Date = July 25, 2007  
 JV6771 \*\*\*\*\*

JV6771 DESIGNATION - HEAP AZ MK  
 JV6771 PID - JV6771  
 JV6771 STATE/COUNTY- MD/HARFORD  
 JV6771 USGS QUAD - DELTA (1990)

**P0971**

JV6771 \*CURRENT SURVEY CONTROL

JV6771*	NAD 83(1991)-	39 40 30.41053(N)	076 21 09.10339(W)	ADJUSTED
JV6771*	NAVD 88	- 126.3 (meters)	414. (feet)	VERTCON
JV6771	X	- 1,159,890.702 (meters)		COMP
JV6771	Y	- 4,777,092.248 (meters)		COMP
JV6771	Z	- 4,050,346.554 (meters)		COMP
JV6771	LAPLACE CORR-	-2.48 (seconds)		DEFLEC99
JV6771	ELLIP HEIGHT-	93.623 (meters)	(09/18/02)	GPS OBS
JV6771	GEOID HEIGHT-	-32.70 (meters)		GEOID03

JV6771 HORZ ORDER - FIRST  
 JV6771 ELLP ORDER - FOURTH CLASS II

JV6771.The horizontal coordinates were established by GPS observations  
 and adjusted by the National Geodetic Survey in January 1992.

JV6771.The NAVD 88 height was computed by applying the VERTCON shift value to  
 the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

JV6771.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6771.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6771.The ellipsoidal height was determined by GPS observations  
 and is referenced to NAD 83.

JV6771.The geoid height was determined by GEOID03.

JV6771;		North	East	Units	Scale Factor	Converg.
JV6771;SPC MD	-	223,154.788	455,553.361	MT	1.00004714	+0 24 23.0
JV6771;SPC MD	-	732,133.67	1,494,594.65	sFT	1.00004714	+0 24 23.0
JV6771;UTM 18	-	4,392,573.260	384,001.256	MT	0.99976566	-0 51 48.9
JV6771!	-	Elev Factor	x Scale Factor	=	Combined Factor	
JV6771!SPC MD	-	0.99998531	x 1.00004714	=	1.00003245	
JV6771!UTM 18	-	0.99998531	x 0.99976566	=	0.99975098	

JV6771 SUPERSEDED SURVEY CONTROL

JV6771	ELLIP H (01/27/92)	93.622 (m)		GP( )	4 1
JV6771	NAD 83(1986)-	39 40 30.40341(N)	076 21 09.10966(W)	AD( )	1
JV6771	NGVD 29 (06/18/91)	126.6 (m)	415. (f)	GPS OBS	

JV6771.Superseded values are not recommended for survey control.  
 JV6771.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 JV6771.[See file dsdata.txt](#) to determine how the superseded data were derived.  
 JV6771

JV6771\_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8400192573(NAD 83)  
 JV6771\_MARKER: DZ = AZIMUTH MARK DISK  
 JV6771\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
 JV6771\_SP\_SET: CONCRETE POST  
 JV6771\_STAMPING: 97 HEAP 1989  
 JV6771\_MARK LOGO: MD-025  
 JV6771\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET  
 JV6771\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 JV6771+STABILITY: SURFACE MOTION  
 JV6771\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 JV6771+SATELLITE: SATELLITE OBSERVATIONS - January 15, 1990

JV6771  
 JV6771 HISTORY - Date Condition Report By  
 JV6771 HISTORY - 1989 MONUMENTED RDA  
 JV6771 HISTORY - 19900115 GOOD

JV6771  
 JV6771 STATION DESCRIPTION  
 JV6771

JV6771'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989  
 JV6771'TO REACH THE AZIMUTH MARK FROM THE STATION PROCEED WEST ALONG HEAPS  
 JV6771'ROAD 0.4 MILES TO THE MARK ON THE LEFT.  
 JV6771'THE MARK IS A STANDARD HARFORD COUNTY AZIMUTH DISK SET IN CONCRETE  
 JV6771'ABOUT 1 INCH BELOW GROUND STAMPED 97 HEAP 1989. THE MARK IS 22.4 FEET  
 JV6771'SOUTHEAST OF THE CENTERLINE OF HEAPS ROAD, 43.7 FEET SOUTH OF  
 JV6771'CONOWINGO POWER POLE NUMBER 20797, AND 37.6 FEET NORTHEAST OF A 4 INCH  
 JV6771'MAPLE TREE AND 1927.69 FEET FROM THE STATION.

JV6771  
 JV6771 STATION RECOVERY (1990)  
 JV6771  
 JV6771'RECOVERED 1990  
 JV6771'RECOVERED IN GOOD CONDITION.

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

LATITUDE	039 40 30.40403	NORTH(sf)	732133.007
LONGITUDE	076 21 09.10862	EAST(sf)	1494594.248
GRID AZ.	055 05 33.6	ELEV. GPS OBS.	415.12 ft.

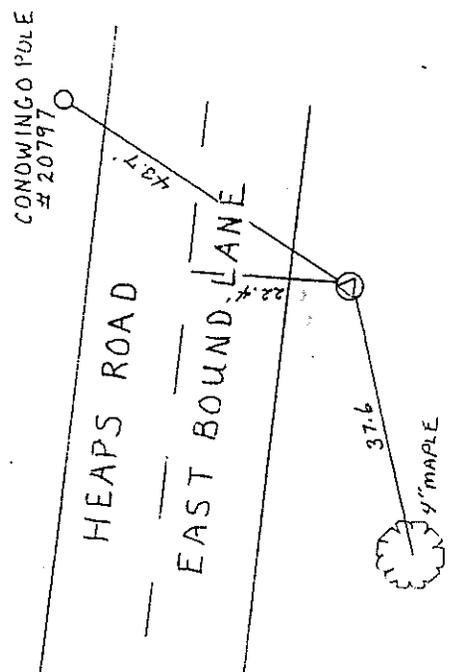
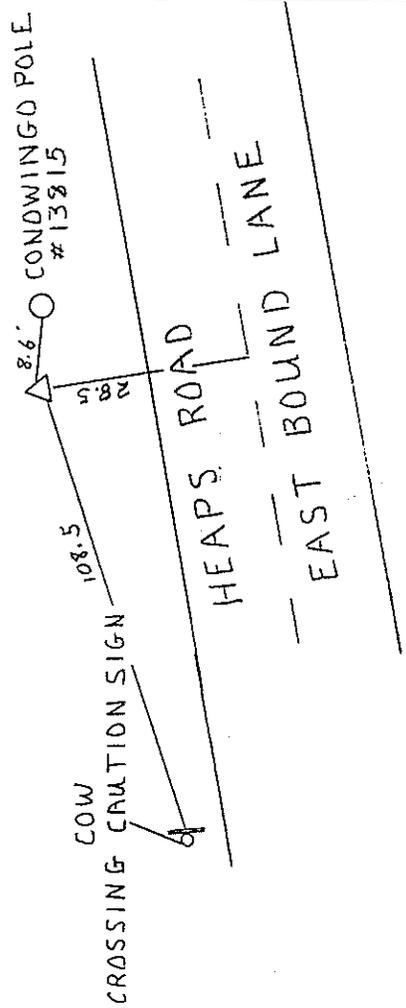
97 HEAP 1989



RESIDENCE  
# 1026



PRIVATE DRIVE



RINKER-DETWILER & ASSOCIATES, P.C.

Engineering • Surveying • Land Planning  
Global Positioning System • Mapping

