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1        National Geodetic Survey,   Retrieval Date = July 25, 2007
 JV6762 ***********************************************************************
 JV6762  DESIGNATION -  GLENVILLE                                    P0730
 JV6762  PID         -  JV6762
 JV6762  STATE/COUNTY-  MD/HARFORD
 JV6762  USGS QUAD   -  ABERDEEN (1985)
 JV6762
 JV6762                        *CURRENT SURVEY CONTROL
 JV6762  ___________________________________________________________________
 JV6762* NAD 83(1991)-  39 36 34.93235(N)    076 12 44.27322(W)     ADJUSTED
 JV6762* NAVD 88     -        68.2    (meters)     224.     (feet)  VERTCON
 JV6762  ___________________________________________________________________
 JV6762  X           -   1,172,672.646 (meters)                     COMP
 JV6762  Y           -  -4,778,695.455 (meters)                     COMP
 JV6762  Z           -   4,044,716.983 (meters)                     COMP
 JV6762  LAPLACE CORR-          -2.98  (seconds)                    DEFLEC99
 JV6762  ELLIP HEIGHT-          35.358 (meters)          (09/18/02) GPS OBS
 JV6762  GEOID HEIGHT-         -32.85  (meters)                     GEOID03
 JV6762
 JV6762  HORZ ORDER  -  FIRST
 JV6762  ELLP ORDER  -  FOURTH    CLASS II
 JV6762
 JV6762.The horizontal coordinates were established by GPS observations
 JV6762.and adjusted by the National Geodetic Survey in January 1992.
 JV6762
 JV6762.The NAVD 88 height was computed by applying the VERTCON shift value to
 JV6762.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
 JV6762
 JV6762.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 JV6762
 JV6762.The Laplace correction was computed from DEFLEC99 derived deflections.
 JV6762
 JV6762.The ellipsoidal height was determined by GPS observations
 JV6762.and is referenced to NAD 83.
 JV6762
 JV6762.The geoid height was determined by GEOID03.
 JV6762
 JV6762;                     North         East     Units Scale Factor Converg.
 JV6762;SPC MD       -   215,986.957   467,647.612   MT  1.00003184   +0 29 39.8
 JV6762;SPC MD       -   708,617.21  1,534,273.87   sFT  1.00003184   +0 29 39.8
 JV6762;UTM  18      - 4,385,141.573   395,930.382   MT  0.99973334   -0 46 22.7
 JV6762
 JV6762!             -  Elev Factor  x  Scale Factor =   Combined Factor
 JV6762!SPC MD       -   0.99999445  x   1.00003184  =   1.00002629
 JV6762!UTM  18      -   0.99999445  x   0.99973334  =   0.99972779
 JV6762
 JV6762                          SUPERSEDED SURVEY CONTROL
 JV6762
 JV6762  ELLIP H (01/27/92)   35.348  (m)                       GP(       ) 4 1
 JV6762  NAD 83(1986)-  39 36 34.92558(N)    076 12 44.27949(W) AD(       ) 1
 JV6762  NGVD 29 (06/18/91)   68.5    (m)          225.     (f) GPS OBS
 JV6762
 JV6762.Superseded values are not recommended for survey control.
 JV6762.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JV6762.See file dsdata.txt to determine how the superseded data were derived.
 JV6762
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JV6762_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ9593085142(NAD 83)
JV6762_MARKER: DD = SURVEY DISK
JV6762_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
JV6762_SP_SET: CONCRETE POST
JV6762_STAMPING: 73 GLENVILLE 1989
JV6762_MARK LOGO: MD-025
JV6762_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
JV6762_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JV6762+STABILITY: SURFACE MOTION
JV6762_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
JV6762+SATELLITE: SATELLITE OBSERVATIONS - April 21, 2001
JV6762
JV6762  HISTORY     - Date     Condition        Report By
JV6762  HISTORY     - 1989     MONUMENTED       RDA
JV6762  HISTORY     - 20010421 GOOD             USPSQD
JV6762
JV6762                          STATION DESCRIPTION
JV6762
JV6762'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
JV6762'THE STATION IS LOCATED IN NORTH CENTRAL HARFORD COUNTY, MARYLAND
JV6762'ABOUT2 MILES SOUTH OF THE VILLAGE OF DARLINGTON.
JV6762'TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 161 AND
JV6762'STATE HIGHWAY 155 PROCEED NORTH ALONG HIGHWAY 161 2.16 MILES TO ITS
JV6762'INTERSECTION WITH HARMONY CHURCH ROAD.  TURN LEFT AND PROCEED WEST
JV6762'ALONG HARMONY CHURCH ROAD 0.76 MILES TO THE STATION ON THE LEFT.
JV6762'THE STATION IS A STANDARD HARFORD COUNTY STATION DISK SET IN CONCRETE
JV6762'ABOUT 1 INCH BELOW GROUND STAMPED 73 GLENVILLE 1989.  THE STATION IS
JV6762'43.0 FEET SOUTHWEST OF THE CENTERLINE OF HARMONY CHURCH ROAD, 21.6
JV6762'FEET SOUTHEAST OF A 4 INCH TWIN TRUNK DOGWOOD TREE, 15.5 FEET WEST OF
JV6762'A 4 INCH APPLE TREE.
JV6762
JV6762                          STATION RECOVERY (2001)
JV6762
JV6762'RECOVERY NOTE BY US POWER SQUADRON 2001 (DG)
JV6762'RECOVERED IN GOOD CONDITION.
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RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
NAD 83/86 COORDINATES - NGVD29 ELEVATIONS

LATITUDE	039 36 34.92562	NORTH(sf)	708616.523
LONGITUDE	076 12 44.27870	EAST(sf)	1534273.451
GRID AZ.	026 45 16.7	ELEV. GPS OBS.	224.64 ft

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1        National Geodetic Survey,   Retrieval Date = July 25, 2007
 JV6763 ***********************************************************************
 JV6763  DESIGNATION -  GLENVILLE AZ MK                                P0731
 JV6763  PID         -  JV6763
 JV6763  STATE/COUNTY-  MD/HARFORD
 JV6763  USGS QUAD   -  CONOWINGO DAM (1995)
 JV6763
 JV6763                        *CURRENT SURVEY CONTROL
 JV6763  ___________________________________________________________________
 JV6763* NAD 83(1991)-  39 37 37.60461(N)    076 12 02.53236(W)     ADJUSTED
 JV6763* NAVD 88     -        79.9    (meters)     262.     (feet)  VERTCON
 JV6763  ___________________________________________________________________
 JV6763  X           -   1,173,347.821 (meters)                     COMP
 JV6763  Y           -  -4,777,269.811 (meters)                     COMP
 JV6763  Z           -   4,046,213.342 (meters)                     COMP
 JV6763  LAPLACE CORR-          -2.88  (seconds)                    DEFLEC99
 JV6763  ELLIP HEIGHT-          47.030 (meters)          (09/18/02) GPS OBS
 JV6763  GEOID HEIGHT-         -32.85  (meters)                     GEOID03
 JV6763
 JV6763  HORZ ORDER  -  FIRST
 JV6763  ELLP ORDER  -  FOURTH    CLASS II
 JV6763
 JV6763.The horizontal coordinates were established by GPS observations
 JV6763.and adjusted by the National Geodetic Survey in January 1992.
 JV6763
 JV6763.The NAVD 88 height was computed by applying the VERTCON shift value to
 JV6763.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
 JV6763
 JV6763.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 JV6763
 JV6763.The Laplace correction was computed from DEFLEC99 derived deflections.
 JV6763
 JV6763.The ellipsoidal height was determined by GPS observations
 JV6763.and is referenced to NAD 83.
 JV6763
 JV6763.The geoid height was determined by GEOID03.
 JV6763
 JV6763;                    North         East     Units Scale Factor Converg.
 JV6763;SPC MD       -   217,928.473   468,626.411   MT  1.00003579   +0 30 06.0
 JV6763;SPC MD       -   714,987.00  1,537,485.15   sFT  1.00003579   +0 30 06.0
 JV6763;UTM  18      - 4,387,060.386   396,951.578   MT  0.99973074   -0 45 57.1
 JV6763
 JV6763!             -  Elev Factor  x  Scale Factor =   Combined Factor
 JV6763!SPC MD       -   0.99999262  x   1.00003579  =   1.00002841
 JV6763!UTM  18      -   0.99999262  x   0.99973074  =   0.99972336
 JV6763
 JV6763                          SUPERSEDED SURVEY CONTROL
 JV6763
 JV6763  ELLIP H (01/27/92)   47.022  (m)                       GP(       ) 4 1
 JV6763  NAD 83(1986)-  39 37 37.59786(N)    076 12 02.53860(W) AD(       ) 1
 JV6763  NGVD 29 (06/18/91)   80.1    (m)          263.     (f) GPS OBS
 JV6763
 JV6763.Superseded values are not recommended for survey control.
 JV6763.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 JV6763.See file dsdata.txt to determine how the superseded data were derived.
 JV6763
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JV6763_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ9695287060(NAD 83)
JV6763_MARKER: DZ = AZIMUTH MARK DISK
JV6763_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
JV6763_SP_SET: CONCRETE POST
JV6763_STAMPING: 73 GLENVILLE 1989
JV6763_MARK LOGO: MD-025
JV6763_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
JV6763_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JV6763+STABILITY: SURFACE MOTION
JV6763_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
JV6763+SATELLITE: SATELLITE OBSERVATIONS - March 04, 2001
JV6763
JV6763  HISTORY     - Date     Condition        Report By
JV6763  HISTORY     - 1989     MONUMENTED       RDA
JV6763  HISTORY     - 20010304 GOOD             USPSQD
JV6763
JV6763                          STATION DESCRIPTION
JV6763
JV6763'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
JV6763'TO REACH THE AZIMUTH MARK FROM THE STATION PROCEED EAST ALONG HARMONY
JV6763'CHURCH ROAD 0.76 MILES TO ITS INTERSECTION WITH HIGHWAY 161.  TURN
JV6763'LEFT AND PROCEED NORTH ALONG HIGHWAY 161 1.4 MILES TO PRIVATE DRIVE
JV6763'BOX 839.  TURN RIGHT ALONG PRIVATE DRIVE BOX 839 AND GO UP A STEEP
JV6763'DRIVEWAY 0.05 MILES TO THE MARK ON THE RIGHT.
JV6763'THE MARK IS A STANDARD HARFORD COUNTY AZIMUTH DISK SET IN CONCRETE
JV6763'ABOUT 1 INCH BELOW GROUND STAMPED 73 GLENVILLE 1989.  THE MARK IS 3.0
JV6763'FEET NORTHWEST OF BARBED WIRE FENCE CORNER, 9.5 FEET SOUTHEAST OF THE
JV6763'CENTERLINE OF THE PRIVATE DRIVEWAY BOX 839, AND 0.05 MILES FROM THE
JV6763'EDGE OF PAVEMENT OF HIGHWAY 161 AND 7133.24 FEET FROM THE STATION.
JV6763
JV6763                          STATION RECOVERY (2001)
JV6763
JV6763'RECOVERY NOTE BY US POWER SQUADRON 2001 (DG)
JV6763'CHANGE PART OF DESCRIPTION TO READ - STEEP DRIVEWAY .10 MILES TO THE
JV6763'MARK ON THE RIGHT AND NEXT PARAGRAPH TO READ .10 MILES FROM THE EDGE
JV6763'OF PAVEMENT OF HIGHWAY 161.  MARK IS 32 INCHES NORTHWEST OF WITNESS
JV6763'POST.  CHANGE BARBED WIRE FENCE TO NEW STANDARD WIRE FENCE.
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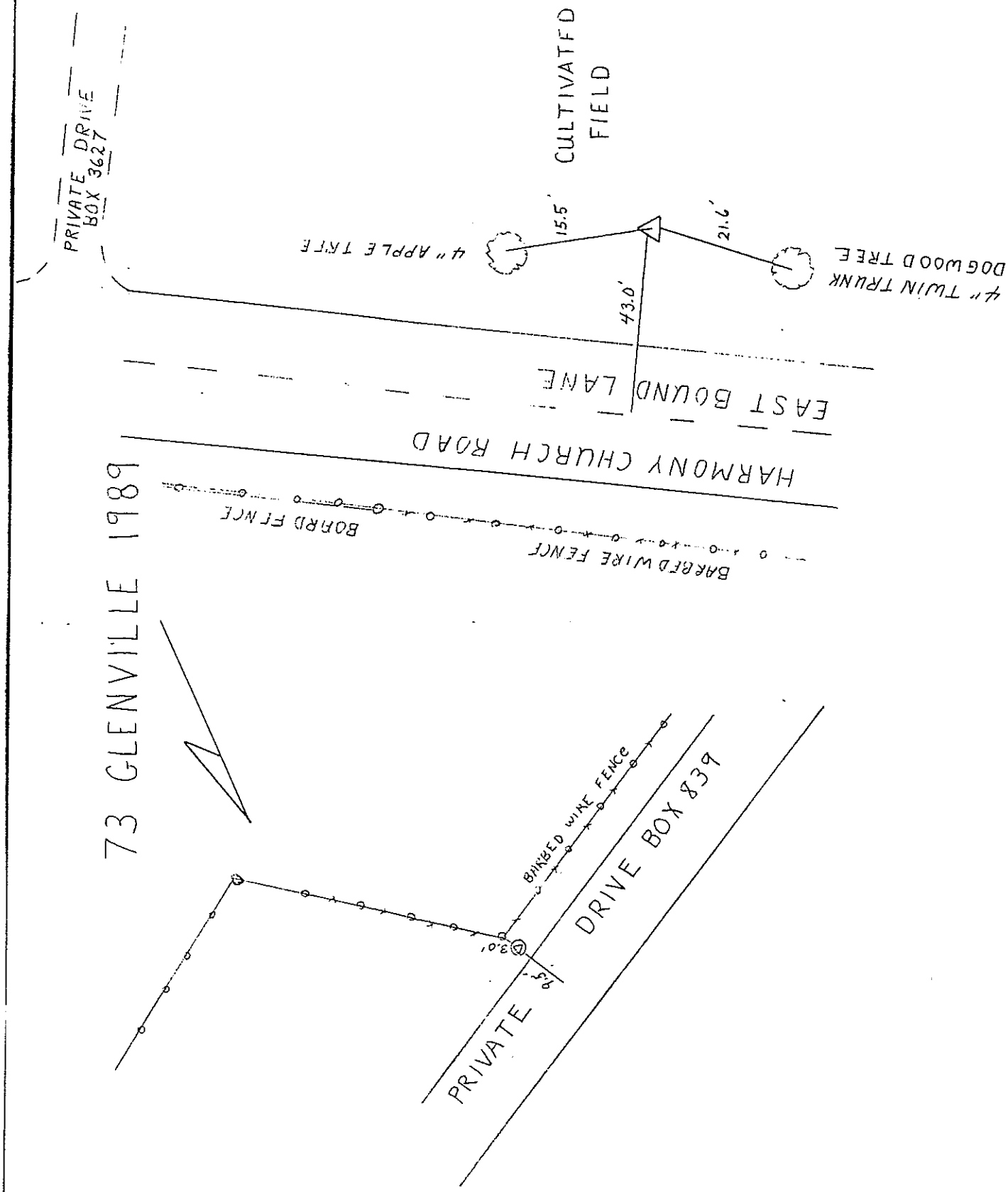
RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
NAD 83/86 COORDINATES - NGVD29 ELEVATIONS

LATITUDE	039 37 37.59760	NORTH(sf)	714986.287
LONGITUDE	076 12 02.53789	EAST(sf)	1537484.723
GRID AZ.	206 45 16.7	ELEV. GPS OBS.	262.98 ft



RINKER-DETWILER & ASSOCIATES, P.C.
Engineering • Surveying • Land Planning
Global Positioning System • Mapping