National Geodetic Survey, Retrieval Date = July 25, 2007

JV6794 **********

P0170

JV6794 DESIGNATION - LAUREL
JV6794 PID - JV6794
JV6794 STATE/COUNTY- MD/HARFORD
JV6794 USGS QUAD - EDGEWOOD (1985)
JV6794
JV6794 *CURRENT SURVEY CONTROL
JV6794 ______
JV6794* NAD 83(1991)- 39 28 17.69133(N) 076 17 40.99708(W) ADJUSTED
JV6794* NAVD 88 - 61.2 (meters) 201. (feet) VERTCON
JV6794 ______
JV6794 X - 1,168,108.780 (meters) COMP
JV6794 Y - -4,789,856.954 (meters) COMP
JV6794 Z - 4,032,886.320 (meters) COMP
JV6794 LAPLACE CORR- -2.83 (seconds) DEFLEC99
JV6794 ELLIP HEIGHT- 28.228 (meters) (09/18/02) GPS OBS
JV6794 GEOID HEIGHT- -33.01 (meters) GEOID03
JV6794
JV6794 HORZ ORDER - FIRST
JV6794 ELLP ORDER - FOURTH CLASS II
JV6794
JV6794.The horizontal coordinates were established by GPS observations
JV6794.and adjusted by the National Geodetic Survey in January 1992.
JV6794
JV6794.The NAVD 88 height was computed by applying the VERTCON shift value to
JV6794.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
JV6794
JV6794.The X, Y, and Z were computed from the position and the ellipsoidal ht.
JV6794
JV6794.The Laplace correction was computed from DEFLEC99 derived deflections.
JV6794
JV6794.The ellipsoidal height was determined by GPS observations
JV6794.and is referenced to NAD 83.
JV6794
JV6794.The geoid height was determined by GEOID03.
JV6794

		North	East	Units	Scale Factor	Converg.
JV6794;SPC MD	-	200,594.101	460,687.750	MT	1.00000385	+0 26 33.6
JV6794;SPC MD	-	658,115.81	1,511,439.73	sFT	1.00000385	+0 26 33.6
JV6794;UTM 18	-	4,369,910.505	388,633.970	MT	0.99975270	-0 49 23.3

		Elev Factor	x	Scale Factor	=	Combined Factor
JV6794!SPC MD	-	0.99999557	x	1.00000385	=	0.99999942
JV6794!UTM 18	-	0.99999557	x	0.99975270	=	0.99974827

PID	Reference Object	Distance	Geod. Az dddmmss.s
JV6795	LAUREL AZ MK	337.428 METERS	32656

JV6794
JV6794 SUPERSEDED SURVEY CONTROL
JV6794
JV6794 ELLIP H (01/27/92) 28.171 (m) GP( ) 4 1
JV6794 NAD 83(1986)- 39 28 17.68585(N) 076 17 41.00408(W) AD( ) 1

JV6794 NGVD 29 (06/18/91)   61.5   (m)   202.   (f) GPS OBS
JV6794
JV6794.Superseded values are not recommended for survey control.
JV6794.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
JV6794.See file dsdata.txt to determine how the superseded data were derived.
JV6794
JV6794_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8863469911(NAD 83)
JV6794_MARKER: DD = SURVEY DISK
JV6794_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
JV6794_SP_SET: CONCRETE POST
JV6794_STAMPING: 17 LAUREL 1989
JV6794_MARK LOGO: MD-025
JV6794_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
JV6794_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JV6794+STABILITY: SURFACE MOTION
JV6794_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
JV6794+SATELLITE: SATELLITE OBSERVATIONS - 1989
JV6794
JV6794 HISTORY   - Date   Condition   Report By
JV6794 HISTORY   - 1989   MONUMENTED   RDA
JV6794 HISTORY   - 19990501 GOOD   USPSQD
JV6794
JV6794   STATION DESCRIPTION
JV6794
JV6794'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
JV6794'THE STATION IS LOCATED IN SOUTH CENTRAL HARFORD COUNTY, MARYLAND ABOUT
JV6794'3 MILES NORTH OF THE VILLAGE OF EDGEWOOD.
JV6794'TO REACH THE STATION FROM THE INTERSECTION OF U.S. HIGHWAY 95 AND
JV6794'STATE HIGHWAY 24 PROCEED NORTH ALONG HIGHWAY 24 0.58 MILE TO ITS
JV6794'INTERSECTION WITH EMMORTON ROAD. TURN RIGHT AND PROCEED NORTHEAST
JV6794'ALONG EMMORTON ROAD 0.97 MILE TO ITS INTERSECTION WITH ABINGDON ROAD.
JV6794'TURN RIGHT AND PROCEED SOUTHEAST ALONG ABINGDON ROAD 1.05 MILES TO ITS
JV6794'INTERSECTION WITH WINDY LAUREL DRIVE. TURN RIGHT AND PROCEED SOUTH
JV6794'ALONG WINDY LAUREL DRIVE APPROXIMATELY 145 FEET TO THE STATION ON THE
JV6794'RIGHT.
JV6794'THE STATION IS A STANDARD HARFORD COUNTY STATION DISK SET IN CONCRETE
JV6794'ABOUT 1 INCH BELOW GROUND STAMPED 17 LAUREL 1989. THE STATION IS 25.0
JV6794'FEET NORTH OF THE CENTERLINE OF WINDY LAUREL DRIVE, 63.0 FEET SOUTH OF
JV6794'THE SOUTHERN CORNER OF TOWNHOUSE NUMBER 3315, AND 105.0 FEET EAST OF
JV6794'THE EAST CORNER OF TOWNHOUSE NUMBER 3317.
JV6794
JV6794   STATION RECOVERY (1999)
JV6794
JV6794'RECOVERY NOTE BY US POWER SQUADRON 1999
JV6794'RECOVERED IN GOOD CONDITION.

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

LATITUDE	039 28 17.68558	NORTH(sf)	658115.228
LONGITUDE	076 17 41.00484	EAST(sf)	1511439.122
GRID AZ.	326 29 21.7	ELEV. GPS OBS.	201.65 ft

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

JV6795 **********

JV6795 DESIGNATION - LAUREL AZ MK **P0171**

JV6795 PID - JV6795

JV6795 STATE/COUNTY- MD/HARFORD

JV6795 USGS QUAD - EDGEWOOD (1985)

JV6795

JV6795 *CURRENT SURVEY CONTROL

JV6795 ---

JV6795* NAD 83(1991)- 39 28 26.86022(N) 076 17 48.70005(W) ADJUSTED

JV6795* NAVD 88 - 75.1 (meters) 246. (feet) VERTCON

JV6795 ---

JV6795 X - 1,167,889.853 (meters) COMP

JV6795 Y - -4,789,736.325 (meters) COMP

JV6795 Z - 4,033,113.411 (meters) COMP

JV6795 LAPLACE CORR- -2.91 (seconds) DEFLEC99

JV6795 ELLIP HEIGHT- 42.091 (meters) (09/18/02) GPS OBS

JV6795 GEOID HEIGHT- -33.00 (meters) GEOID03

JV6795

JV6795 HORZ ORDER - FIRST

JV6795 ELLP ORDER - FOURTH CLASS II

JV6795

JV6795.The horizontal coordinates were established by GPS observations

JV6795.and adjusted by the National Geodetic Survey in January 1992.

JV6795

JV6795.The NAVD 88 height was computed by applying the VERTCON shift value to

JV6795.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

JV6795

JV6795.The X, Y, and Z were computed from the position and the ellipsoidal ht.

JV6795

JV6795.The Laplace correction was computed from DEFLEC99 derived deflections.

JV6795

JV6795.The ellipsoidal height was determined by GPS observations

JV6795.and is referenced to NAD 83.

JV6795

JV6795.The geoid height was determined by GEOID03.

JV6795

JV6795; North East Units Scale Factor Converg.

JV6795;SPC MD - 200,875.444 460,501.457 MT 1.00000431 +0 26 28.7

JV6795;SPC MD - 659,038.85 1,510,828.53 sFT 1.00000431 +0 26 28.7

JV6795;UTM 18 - 4,370,195.823 388,453.984 MT 0.99975319 -0 49 28.3

JV6795

JV6795! - Elev Factor x Scale Factor = Combined Factor

JV6795!SPC MD - 0.99999340 x 1.00000431 = 0.99999771

JV6795!UTM 18 - 0.99999340 x 0.99975319 = 0.99974659

JV6795

JV6795|---|

JV6795| PID Reference Object Distance Geod. Az |

JV6795| dddmmss.s |

JV6795| JV6794 LAUREL 337.428 METERS 14656 |

JV6795|---|

JV6795

JV6795 SUPERSEDED SURVEY CONTROL

JV6795

JV6795 ELLIP H (01/27/92) 42.035 (m) GP( ) 4 1

JV6795 NAD 83(1986)- 39 28 26.85475(N) 076 17 48.70704(W) AD( ) 1

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JV6795  NGVD 29 (06/18/91)   75.3    (m)          247.     (f) GPS OBS
JV6795
JV6795.Superseded values are not recommended for survey control.
JV6795.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
JV6795.See file dsdata.txt to determine how the superseded data were derived.
JV6795
JV6795_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8845470196(NAD 83)
JV6795_MARKER: DZ = AZIMUTH MARK DISK
JV6795_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
JV6795_SP_SET: CONCRETE POST
JV6795_STAMPING: 17 LAUREL 1989
JV6795_MARK LOGO: MD-025
JV6795_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
JV6795_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JV6795+STABILITY: SURFACE MOTION
JV6795_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
JV6795+SATELLITE: SATELLITE OBSERVATIONS - 1989
JV6795
JV6795  HISTORY     - Date     Condition        Report By
JV6795  HISTORY     - 1989     MONUMENTED       RDA
JV6795  HISTORY     - 19990501 GOOD             USPSQD
JV6795
JV6795                          STATION DESCRIPTION
JV6795
JV6795'DESCRIBED BY RINKER DETWILER AND ASSOCIATES 1989
JV6795'TO REACH THE AZIMUTH MARK FROM THE STATION PROCEED SOUTHWEST ALONG
JV6795'WINDY LAUREL DRIVE 0.2 MILE TO ITS INTERSECTION WITH COPPER RIDGE
JV6795'ROAD.  TURN RIGHT AND PROCEED NORTHEAST ALONG COPPER RIDGE ROAD 0.4
JV6795'MILE TO THE AZIMUTH MARK ON THE RIGHT.
JV6795'THE MARK IS A STANDARD HARFORD COUNTY AZIMUTH DISK SET IN CONCRETE
JV6795'ABOUT 1 INCH BELOW GROUND STAMPED 17 LAUREL 1989.  THE MARK IS 16.7
JV6795'FEET EAST OF THE CENTERLINE OF COPPER RIDGE ROAD, 56.0 FEET SOUTH OF A
JV6795'FIRE HYDRANT, 3.6 FEET WEST OF THE EDGE OF THE SIDEWALK, AND 1107.05
JV6795'FEET FROM THE STATION.
JV6795
JV6795                          STATION RECOVERY (1999)
JV6795
JV6795'RECOVERY NOTE BY US POWER SQUADRON 1999
JV6795'RECOVERED IN GOOD CONDITION.
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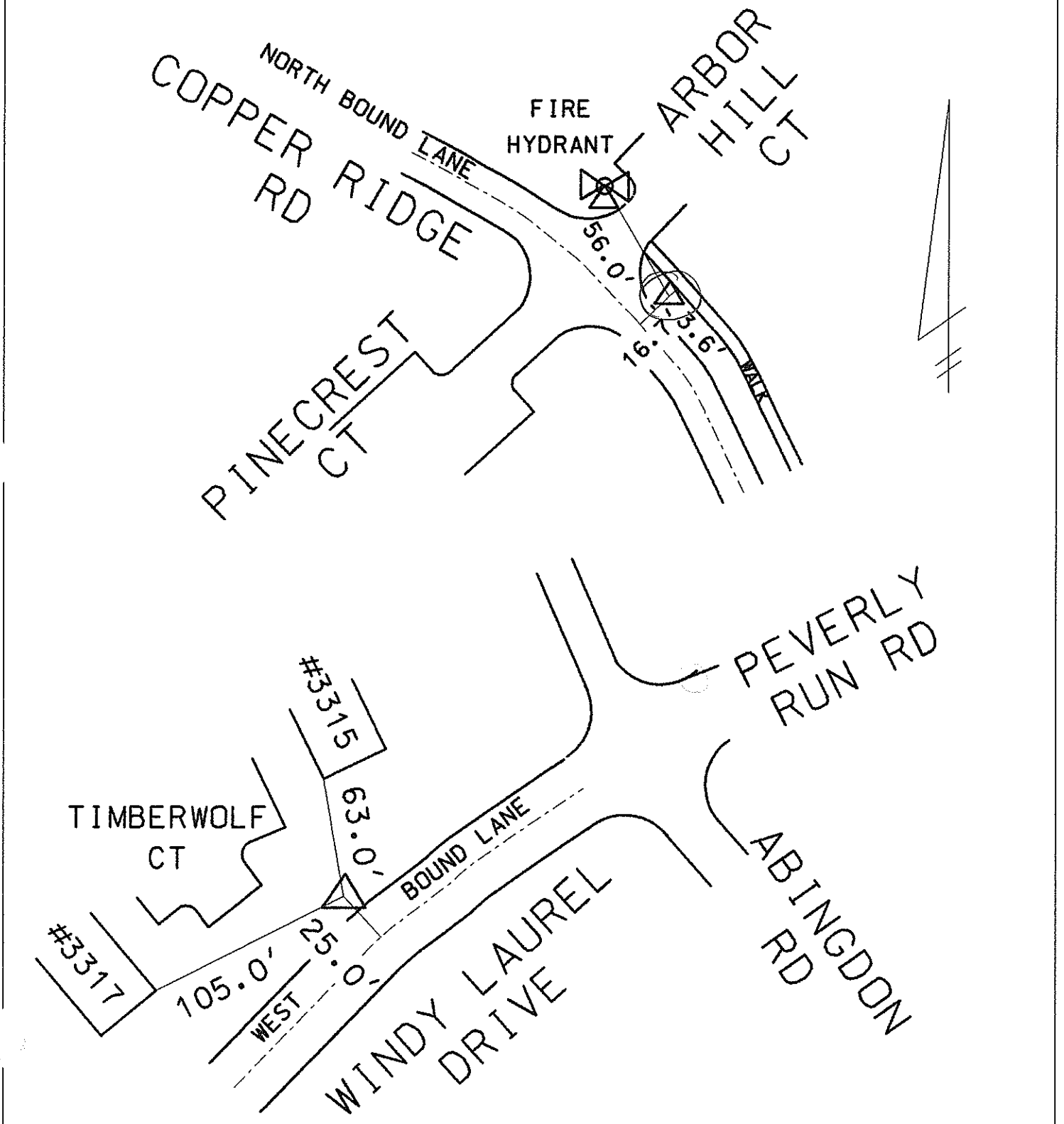
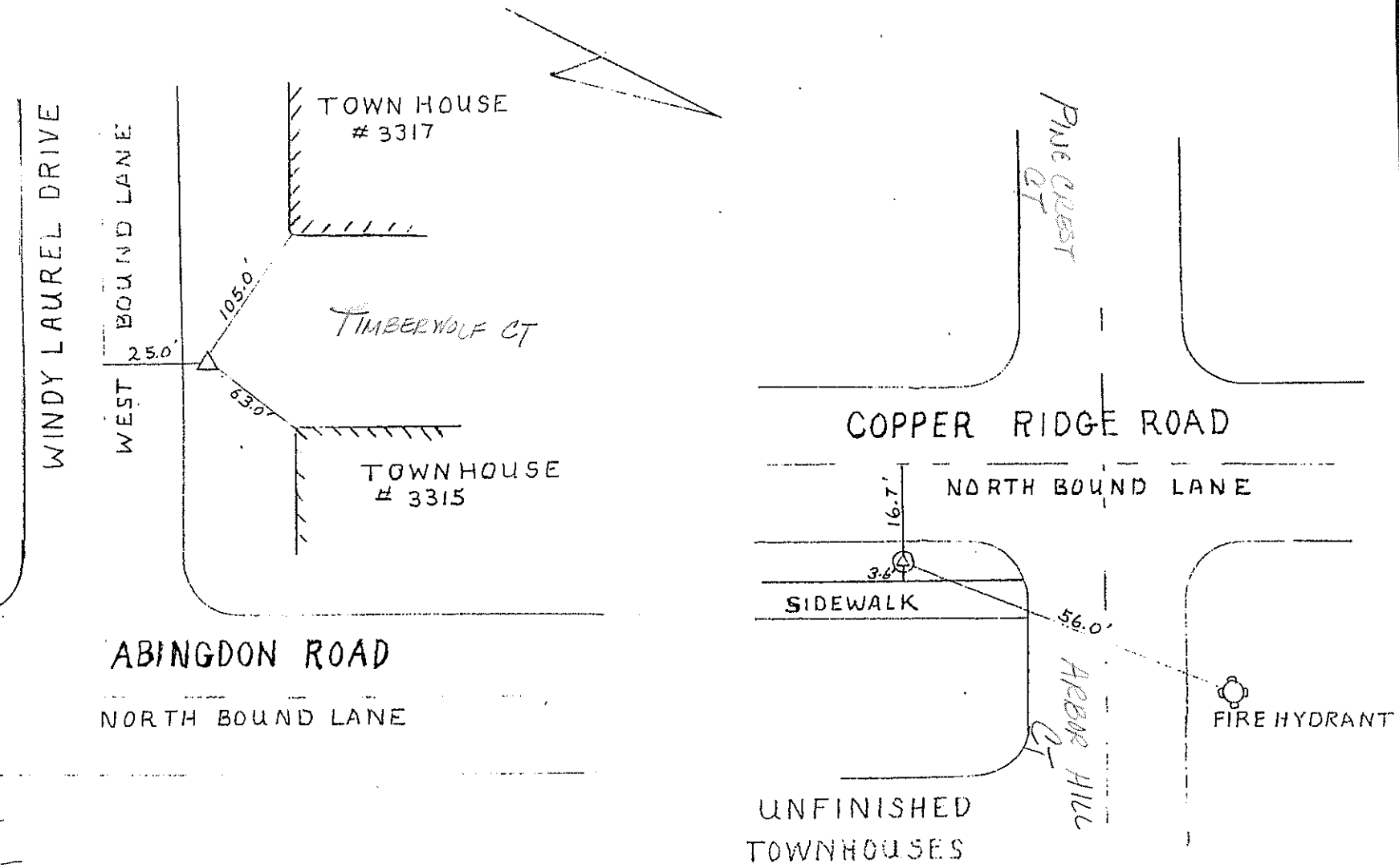
RINKER-DETWILER INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
NAD 83/86 COORDINATES - NGVD29 ELEVATIONS

LATITUDE	039 28 26.85451	NORTH(sf)	659038.269
LONGITUDE	076 17 48.70780	EAST(sf)	1510827.928
GRID AZ.	146 29 21.7	ELEV. GPS OBS.	247.11 ft

DATE: ?	STATION LAUREL	TYPE OF MARK: DISK IN CONCRETE
COUNTY: HARFORD		ESTABLISHED BY: RINKER DETWILER & ASSOC, P.C.
CHECKED 1/98 & DRAWN BY: DPW		STAMPING ON MARK: 17 LAUREL 1989



17 LAUREL 1989



RINKER-DETWILER & ASSOCIATES, P.C.

Engineering • Surveying • Land Planning
Global Positioning System • Mapping

9/6/89

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