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

JV7299 **********

JV7299 DESIGNATION - FOUNTAIN **P1520**

JV7299 PID - JV7299
JV7299 STATE/COUNTY- MD/HARFORD
JV7299 USGS QUAD - BEL AIR (1986)
JV7299
JV7299 *CURRENT SURVEY CONTROL
JV7299 ---
JV7299* NAD 83(1991)- 39 32 23.51612(N) 076 18 20.97583(W) ADJUSTED
JV7299* NAVD 88 - 122.8 (meters) 403. (feet) GPS OBS
JV7299 ---
JV7299 X - 1,166,049.878 (meters) COMP
JV7299 Y - -4,785,443.730 (meters) COMP
JV7299 Z - 4,038,775.112 (meters) COMP
JV7299 LAPLACE CORR- -3.27 (seconds) DEFLEC99
JV7299 ELLIP HEIGHT- 89.990 (meters) (08/30/02) GPS OBS
JV7299 GEOID HEIGHT- -32.82 (meters) GEOID03
JV7299
JV7299 HORZ ORDER - FIRST
JV7299 ELLP ORDER - FOURTH CLASS II
JV7299
JV7299.The horizontal coordinates were established by GPS observations
JV7299.and adjusted by the National Geodetic Survey in August 1994.
JV7299
JV7299.The orthometric height was determined by GPS observations and a
JV7299.high-resolution geoid model.
JV7299
JV7299.The X, Y, and Z were computed from the position and the ellipsoidal ht.
JV7299
JV7299.The Laplace correction was computed from DEFLEC99 derived deflections.
JV7299
JV7299.The ellipsoidal height was determined by GPS observations
JV7299.and is referenced to NAD 83.
JV7299
JV7299.The geoid height was determined by GEOID03.
JV7299
JV7299; North East Units Scale Factor Converg.
JV7299;SPC MD - 208,167.951 459,674.539 MT 1.00001696 +0 26 08.5
JV7299;SPC MD - 682,964.35 1,508,115.55 sFT 1.00001696 +0 26 08.5
JV7299;UTM 18 - 4,377,502.951 387,788.618 MT 0.99975502 -0 49 53.0
JV7299
JV7299! - Elev Factor x Scale Factor = Combined Factor
JV7299!SPC MD - 0.99998588 x 1.00001696 = 1.00000284
JV7299!UTM 18 - 0.99998588 x 0.99975502 = 0.99974091
JV7299

JV7299	PID	Reference Object	Distance	Geod. Az dddmmss.s
JV7299	JV7300	FOUNTAIN AZ MK	382.422 METERS	13349

JV7299

JV7299 SUPERSEDED SURVEY CONTROL
JV7299
JV7299 ELLIP H (08/17/94) 89.967 (m) GP( ) 4 1
JV7299

JV7299.Superseded values are not recommended for survey control.
JV7299.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
JV7299.See file dsdata.txt to determine how the superseded data were derived.
JV7299
JV7299_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8778977503(NAD 83)
JV7299_MARKER: DD = SURVEY DISK
JV7299_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
JV7299_SP_SET: CONCRETE POST
JV7299_STAMPING: 152 FOUNTAIN 1993
JV7299_MARK LOGO: MD-025
JV7299_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
JV7299_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JV7299+STABILITY: SURFACE MOTION
JV7299_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
JV7299+SATELLITE: SATELLITE OBSERVATIONS - January 27, 2001
JV7299
JV7299 HISTORY   - Date   Condition   Report By
JV7299 HISTORY   - 1993   MONUMENTED   GEOMET
JV7299 HISTORY   - 20010127 GOOD   USPSQD
JV7299 HISTORY   - 20011210 GOOD   NGS
JV7299
JV7299   STATION DESCRIPTION
JV7299
JV7299'DESCRIBED BY GEOMETRICS GPS INCORPORATED 1993
JV7299'THE STATION IS LOCATED IN HARFORD COUNTY, MARYLAND ABOUT 2.2 MILES
JV7299'EAST OF BEL AIR AT THE FOUNTAIN GREEN ELEMENTARY SCHOOL.
JV7299'TO REACH THE STATION FROM THE INTERSECTION OF STATE HIGHWAY 22 AND
JV7299'STATE HIGHWAY 543 PROCEED SOUTHEAST ALONG STATE HIGHWAY 543 0.5 MILES
JV7299'TO THE ENTRANCE OF FOUNTAIN GREEN ELEMENTARY SCHOOL AND THE STATION
JV7299'ON THE LEFT IN THE NORTHWEST CORNER OF THE INTERSECTION.
JV7299'THE STATION IS A STANDARD HARFORD COUNTY, MD STATION DISK SET IN
JV7299'CONCRETE FLUSH WITH THE GROUND STAMPED 152 FOUNTAIN 1993.
JV7299'THE STATION IS 7.2 FEET NORTHEAST FROM THE EDGE OF PAVEMENT OF STATE
JV7299'HIGHWAY 543, 11.5 FEET SOUTHWEST FROM A LIGHT POLE, AND 65.0 FEET
JV7299'NORTHWEST FROM A BRICK SIGN.
JV7299
JV7299   STATION RECOVERY (2001)
JV7299
JV7299'RECOVERY NOTE BY US POWER SQUADRON 2001 (DG)
JV7299'RECOVERED IN GOOD CONDITION.
JV7299
JV7299   STATION RECOVERY (2001)
JV7299
JV7299'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2001 (DB)
JV7299'THIS REPORT WAS SUBMITTED BY THE US POWER SQUADRONS.

GEOMETRICS GPS INC. INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
NAD 83/91 COORDINATES – NAVD88 ELEVATIONS

LATITUDE	039 32 23.51612	NORTH(sf)	682964.35
LONGITUDE	076 18 20.97583	EAST(sf)	1508115.55
GRID AZ.	133 23	ELEV. GPS OBS.	402.93 ft.

National Geodetic Survey, Retrieval Date = July 25, 2007

JV7300 **

JV7300 DESIGNATION - FOUNTAIN AZ MK **P1521**

JV7300 PID - JV7300
JV7300 STATE/COUNTY- MD/HARFORD
JV7300 USGS QUAD - BEL AIR (1986)
JV7300
JV7300 *CURRENT SURVEY CONTROL
JV7300 ____
JV7300* NAD 83(1991)- 39 32 14.93130(N) 076 18 09.41981(W) ADJUSTED
JV7300* NAVD 88 - 116.9 (meters) 384. (feet) GPS OBS
JV7300 ____
JV7300 X - 1,166,356.812 (meters) COMP
JV7300 Y - -4,785,537.715 (meters) COMP
JV7300 Z - 4,038,567.160 (meters) COMP
JV7300 LAPLACE CORR- -3.22 (seconds) DEFLEC99
JV7300 ELLIP HEIGHT- 84.072 (meters) (08/30/02) GPS OBS
JV7300 GEOID HEIGHT- -32.83 (meters) GEOID03
JV7300
JV7300 HORZ ORDER - FIRST
JV7300 ELLP ORDER - FOURTH CLASS II
JV7300
JV7300.The horizontal coordinates were established by GPS observations
JV7300.and adjusted by the National Geodetic Survey in August 1994.
JV7300
JV7300.The orthometric height was determined by GPS observations and a
JV7300.high-resolution geoid model.
JV7300
JV7300.The X, Y, and Z were computed from the position and the ellipsoidal ht.
JV7300
JV7300.The Laplace correction was computed from DEFLEC99 derived deflections.
JV7300
JV7300.The ellipsoidal height was determined by GPS observations
JV7300.and is referenced to NAD 83.
JV7300
JV7300.The geoid height was determined by GEOID03.
JV7300
JV7300; North East Units Scale Factor Converg.
JV7300;SPC MD - 207,905.297 459,952.504 MT 1.00001647 +0 26 15.7
JV7300;SPC MD - 682,102.63 1,509,027.51 sFT 1.00001647 +0 26 15.7
JV7300;UTM 18 - 4,377,234.285 388,060.636 MT 0.99975427 -0 49 45.5
JV7300
JV7300! - Elev Factor x Scale Factor = Combined Factor
JV7300!SPC MD - 0.99998681 x 1.00001647 = 1.00000328
JV7300!UTM 18 - 0.99998681 x 0.99975427 = 0.99974108
JV7300

PID	Reference Object	Distance	Geod. Az dddmmss.s
JV7299	FOUNTAIN	382.422 METERS	31349

JV7300
JV7300 SUPERSEDED SURVEY CONTROL
JV7300
JV7300 ELLIP H (08/17/94) 84.040 (m) GP( ) 4 1
JV7300

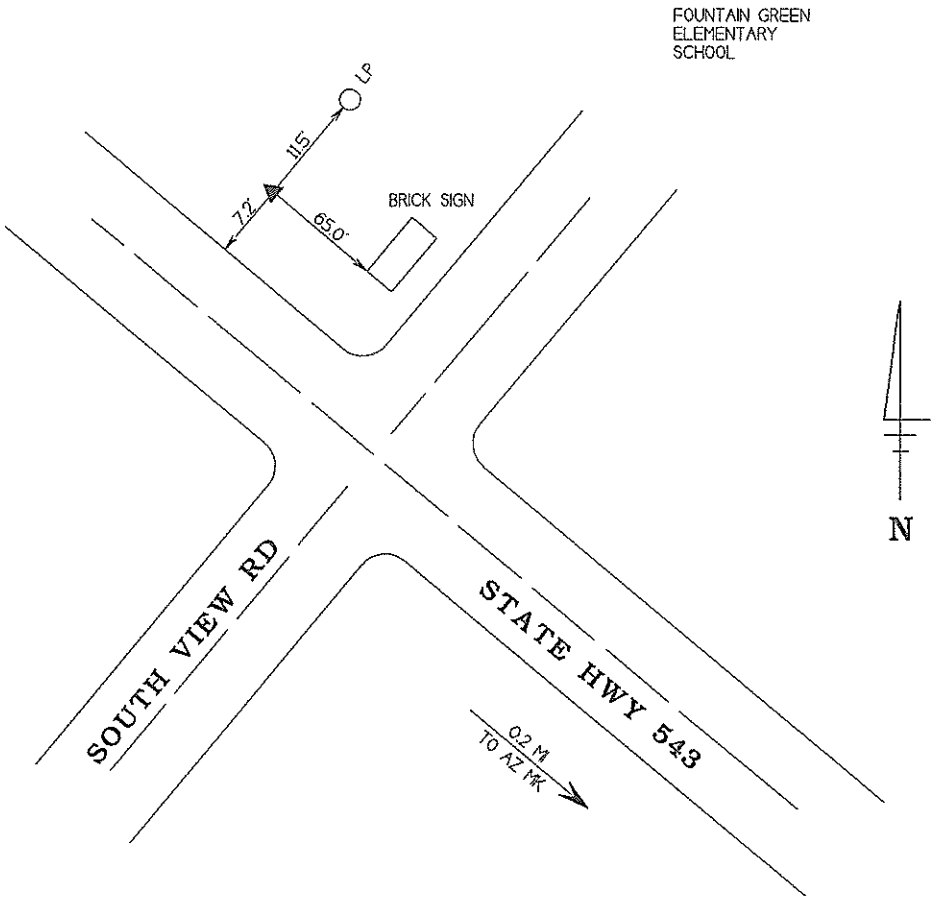
JV7300.Superseded values are not recommended for survey control.
JV7300.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
JV7300.See file dsdata.txt to determine how the superseded data were derived.
JV7300
JV7300_U.S. NATIONAL GRID SPATIAL ADDRESS: 18SUJ8806177234(NAD 83)
JV7300_MARKER: DD = SURVEY DISK
JV7300_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
JV7300_SP_SET: CONCRETE POST
JV7300_STAMPING: 152 FOUNTAIN AZ MK 1993
JV7300_MARK LOGO: MD-025
JV7300_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
JV7300_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
JV7300+STABILITY: SURFACE MOTION
JV7300_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
JV7300+SATELLITE: SATELLITE OBSERVATIONS - November 01, 2001
JV7300
JV7300 HISTORY   - Date   Condition   Report By
JV7300 HISTORY   - 1993   MONUMENTED   GEOMET
JV7300 HISTORY   - 20010127 MARK NOT FOUND   USPSQD
JV7300 HISTORY   - 20011101 GOOD   MD-025
JV7300 HISTORY   - 20011210 GOOD   NGS
JV7300
JV7300   STATION DESCRIPTION
JV7300
JV7300'DESCRIBED BY GEOMETRICS GPS INCORPORATED 1993
JV7300'THE AZIMUTH MARK IS LOCATED IN HARFORD COUNTY, MARYLAND ABOUT 2.25
JV7300'MILES EAST OF THE VILLAGE OF BEL AIR.
JV7300'TO REACH THE AZIMUTH MARK FROM THE INTERSECTION OF STATE HIGHWAY 22
JV7300'AND STATE HIGHWAY 543 PROCEED SOUTHEAST ALONG STATE HIGHWAY 543 0.5
JV7300'MILES TO THE ENTRANCE OF FOUNTAIN GREEN ELEMENTARY SCHOOL PASSING THE
JV7300'STATION ON THE LEFT. CONTINUE SOUTHEAST ALONG STATE HIGHWAY 543 0.2
JV7300'MILES TO ITS INTERSECTION WITH CRESCENT DRIVE AND THE AZIMUTH MARK ON
JV7300'THE RIGHT IN THE SOUTHWEST CORNER OF THE INTERSECTION.
JV7300'THE AZIMUTH MARK IS A STANDARD HARFORD COUNTY, MD STATION DISK SET IN
JV7300'CONCRETE FLUSH WITH THE GROUND STAMPED 152 FOUNTAIN AZ MK 1993.
JV7300'THE AZIMUTH MARK IS 1.5 FEET NORTHWEST FROM THE EDGE OF SIDEWALK, 2.0
JV7300'FEET SOUTHWEST FROM THE FACE OF CURB OF STATE HIGHWAY 543, AND 18.0
JV7300'FEET SOUTHEAST FROM A POWER POLE WITH NO NUMBER.
JV7300
JV7300   STATION RECOVERY (2001)
JV7300
JV7300'RECOVERY NOTE BY US POWER SQUADRON 2001 (DG)
JV7300'MARK NOT RECOVERED DUE TO ROAD BEING CHANGED AND CURBING MOVED.
JV7300
JV7300   STATION RECOVERY (2001)
JV7300
JV7300'RECOVERY NOTE BY HARFORD COUNTY MARYLAND 2001 (PMJ)
JV7300'THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF
JV7300'MARYLAND ROUTE 543 AND REDFIELD ROAD.
JV7300

JV7300 STATION RECOVERY (2001)
JV7300
JV7300'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2001 (DB)
JV7300'THIS REPORT WAS SUBMITTED BY THE US POWER SQUADRONS

GEOMETRICS GPS INC. INFORMATION FROM HARFORD COUNTY SURVEY CONTROL BOOK
NAD 83/91 COORDINATES – NAVD88 ELEVATIONS

LATITUDE	039 32 14.93130	NORTH(sf)	682102.63
LONGITUDE	076 18 09.41981	EAST(sf)	1509027.51
GRID AZ.	313 23	ELEV. GPS OBS.	383.53 ft.

DATE: DECEMBER 1993	STATION FOUNTAIN	TYPE OF MARK: DISK IN CONCRETE
COUNTY: HARFORD		ESTABLISHED BY: GEOMETRICS GPS, INC.
		STAMPING ON MARK: 152 FOUNTAIN 1993



GEOMETRICS GPS, INC.

DATE: DECEMBER 1993	STATION FOUNTAIN AZ MK	TYPE OF MARK: DISK IN CONCRETE
COUNTY: HARFORD		ESTABLISHED BY: GEOMETRICS GPS, INC.
CHECKED 12/97 & DRAWN BY: DPW		STAMPING ON MARK: 152 FOUNTAIN AZ MK 1993