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U.S.G.S. Station Name: F-291	U.S.G.S. Station Number: 26001008085001		Agency: FWMD	Da	ate of Field Work: 09/19/19
Party Chief: T. AVERY	Field Book: SFWMD #1	Page(s): 11-14			Report Prepared by: DEWBERRY
	SITE SPECI	FIC DAT	-A		
Site Benchmark:	Benchmark Elevation(s) (NAVD8	38): Corpscon 6.0		0.1 Conversion Factor (NAVD88 to NGVD29)	
F-291	7.60 feet	+ 1.		0 feet	
Well Reference Elevation (NAVD88):		Ground Elevation (NAVD88):		Pad Elevation (NAVD88):	
9.49'		7.6′		N/A	
	GEOGRAP	HIC DAT	A		
Section 22	Township 51 SOU	TH Range 42 EAST		Range 42 EAST	
Well Latitude:	Well Longitude:		Location Source:		
26°00'11.38"N	80°08'48.77"W	AVERAGED FPRN & TRIMBLE VRSNOW RTK		IBLE VRSNOW RTK	
State Plane Coordinates:	Northing (Y) = 607754'	Easting (X) = 936373'			

Notes: NAVD88 – North American Vertical Datum of 1988; NGVD29- National Geodetic Vertical Datum of 1929; Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.

PICTURES



Not to scale (GoogleEarth product)



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Well Site and Well Head



Well: 6" Metal Well Head Reference Point: Top of screw at well opening

Reference Point El. = 9.49 feet NAVD88

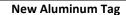
Distance to water =
-8.79 feet from reference point
(09/19/19 at 10:30 AM)







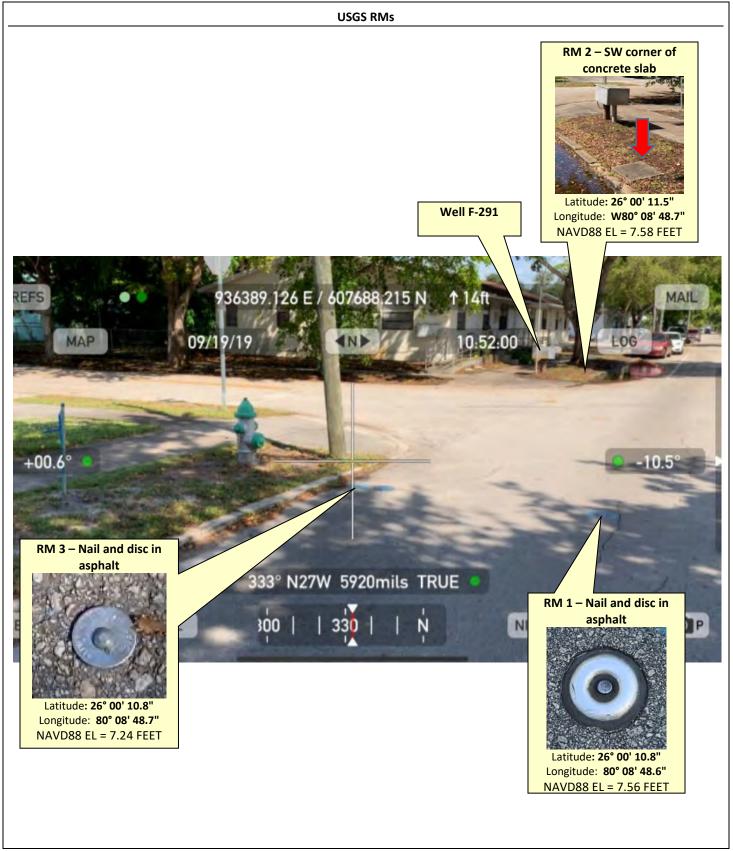
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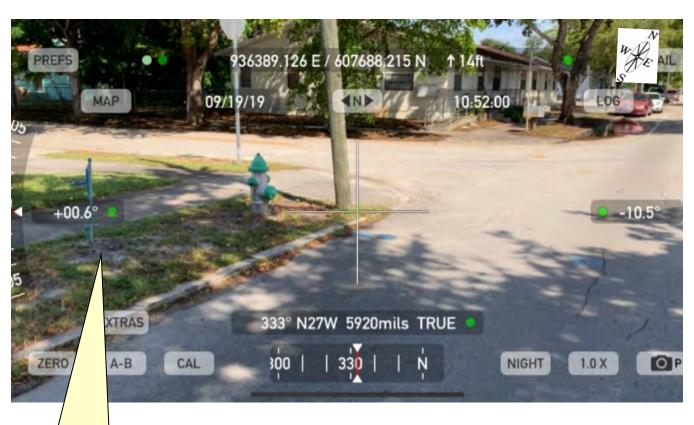
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Site Benchmark



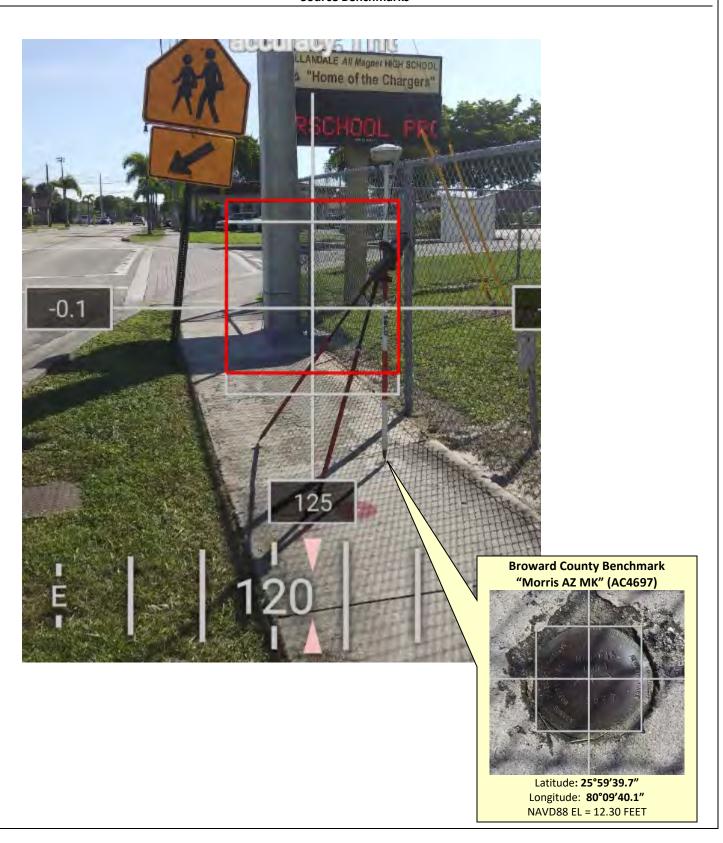


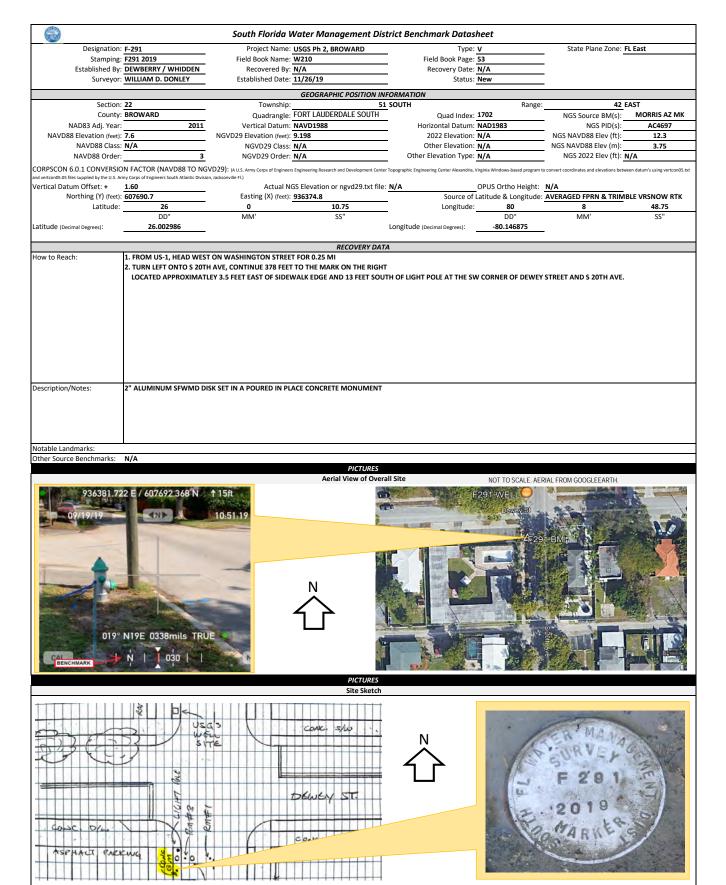




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Source Benchmarks





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"Morris AZ MK" Benchmark Datasheet (1 of 2)

The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.12.5.4
      National Geodetic Survey, Retrieval Date = NOVEMBER 19, 2019
AC4697 **************
AC4697 DESIGNATION - MORRIS AZ MK
AC4697 PID

    AC4697

AC4697 STATE/COUNTY- FL/BROWARD
AC4697 COUNTRY - US
AC4697 USGS QUAD - NORTH MIAMI (1988)
AC4697
                               *CURRENT SURVEY CONTROL
AC4697
AC4697
AC4697* NAD 83(1986) POSITION- 25 59 39.7
                                          (N) 080 09 40.0
                                                               (W) HD HELD2
                                 3.750 (meters) 12.30 (feet) ADJUSTED
AC4697* NAVD 88 ORTHO HEIGHT -
AC4697
AC4697 GEOID HEIGHT
                                -25.558 (meters)
                                                                     GEOID18
AC4697 DYNAMIC HEIGHT -
                                  3.744 (meters)
                                                       12.28 (feet) COMP
AC4697 MODELED GRAVITY -
                           979,052.3 (mgal)
                                                                     NAVD 88
AC4697
AC4697 VERT ORDER

    FIRST CLASS II

AC4697
AC4697. The horizontal coordinates were established by autonomous hand held GPS
AC4697.observations and have an estimated accuracy of +/- 10 meters.
AC4697. The orthometric height was determined by differential leveling and
AC4697.adjusted by the NATIONAL GEODETIC SURVEY
AC4697.in May 1994.
AC4697.Significant digits in the geoid height do not necessarily reflect accuracy.
AC4697.GEOID18 height accuracy estimate available here.
AC4697.Click <a href="here">here</a> to see if photographs exist for this station.
AC4697. The dynamic height is computed by dividing the NAVD 88
AC4697.geopotential number by the normal gravity value computed on the
AC4697.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AC4697.degrees latitude (g = 980.6199 gals.).
AC4697. The modeled gravity was interpolated from observed gravity values.
AC4697
AC4697;
                           North
                                        East
                                               Units Estimated Accuracy
AC4697; SPC FL E - 184,260.
                                     283,989.
                                               MT (+/- 10 meters HH2 GPS)
AC4697 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ8395975328(NAD 83)
AC4697
AC4697
                               SUPERSEDED SURVEY CONTROL
AC4697
                                                 13.91 (f) ADJUSTED 1 2
AC4697 NGVD 29 (09/01/92) 4.239 (m)
AC4697.Superseded values are not recommended for survey control.
AC4697.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AC4697.See file dsdata.pdf to determine how the superseded data were derived.
AC4697
AC4697 MARKER: DZ = AZIMUTH MARK DISK
AC4697_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AC4697_STAMPING: MORRIS 1971 1977
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"Morris AZ MK" Benchmark Datasheet (2 of 2)

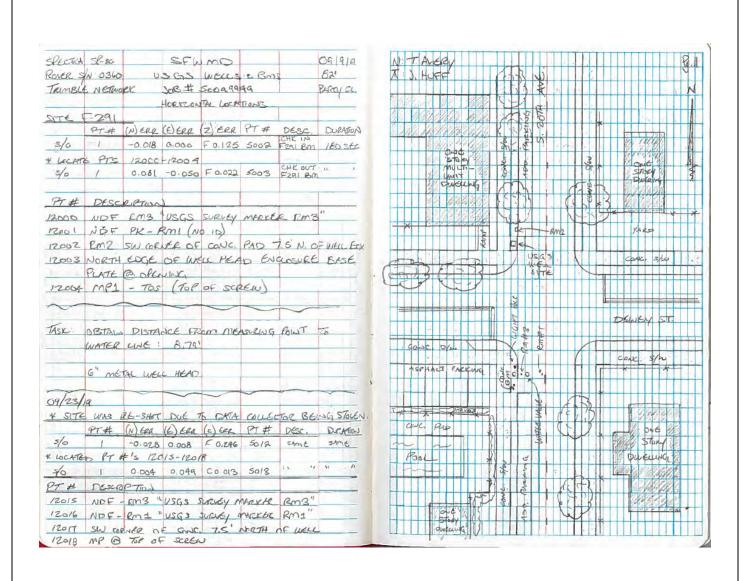
AC4697 MARK LOGO: NGS AC4697 PROJECTION: FLUSH AC4697_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AC4697+STABILITY: SURFACE MOTION AC4697_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR AC4697+SATELLITE: SATELLITE OBSERVATIONS - September 20, 2014 AC4697 AC4697 HISTORY Date Condition Report By - 1977 AC4697 HISTORY MONUMENTED NGS - 19901218 GOOD - 20140920 GOOD AC4697 HISTORY NGS AC4697 HISTORY GEOCAC AC4697 AC4697 STATION DESCRIPTION AC4697 AC4697'DESCRIBED BY NATIONAL GEODETIC SURVEY 1990 AC4697'1.8 KM (1.1 MI) WESTERLY ALONG PEMBROKE ROAD (STATE HIGHWAY 824) FROM AC4697'THE INTERSECTION OF U.S. HIGHWAY 1 IN HALLANDALE, THENCE 0.2 KM (0.1 AC4697'MI) SOUTHERLY ALONG NORTHWEST 9TH AVENUE, 19.0 M (62.3 FT) WEST OF AC4697'THE AVENUE CENTERLINE, 7.1 M (23.3 FT) SOUTHWEST OF AND LEVEL WITH AC4697'THE CENTERLINE OF FOSTER ROAD, 6.4 M (21.0 FT) WEST OF UTILITY POLE AC4697'NUMBER 87570087906, 1.0 M (3.3 FT) NORTH OF A WITNESS POST, 1.0 M AC4697'(3.3 FT) SOUTH OF THE NORTH EDGE OF A SIDEWALK, AND THE MONUMENT IS AC4697'FLUSH WITH AND SURROUNDED BY A SIDEWALK. NOTE--THE ORIGINAL AC4697'DESCRIPTION STATES THAT THE MONUMENT WAS SET IN A CONCRETE POST AND AC4697'IT DOES APPEAR THAT THE SIDEWALK WAS POURED AROUND THE MONUMENT. AC4697 AC4697 STATION RECOVERY (2014) AC4697 AC4697'RECOVERY NOTE BY GEOCACHING 2014 (KEN) AC4697'RECOVERED IN GOOD CONDITION.

*** retrieval complete. Elapsed Time = 00:00:01



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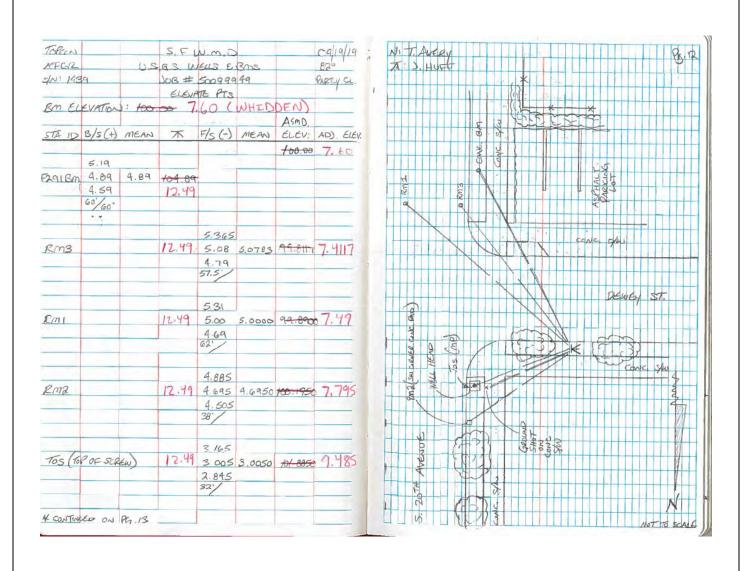
Dewberry Field Notes (1 of 4)



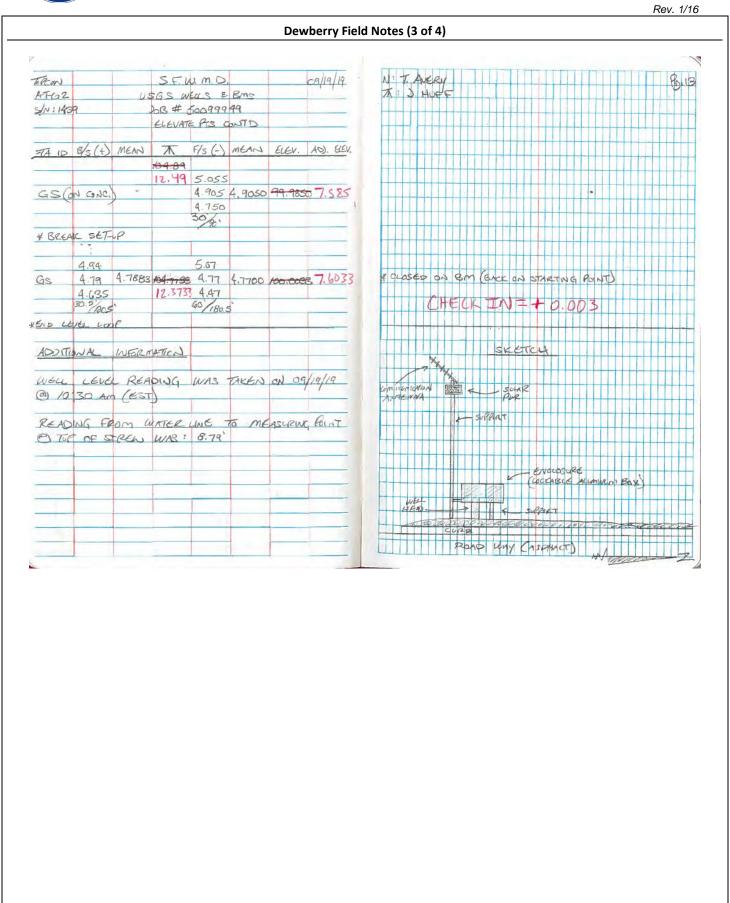


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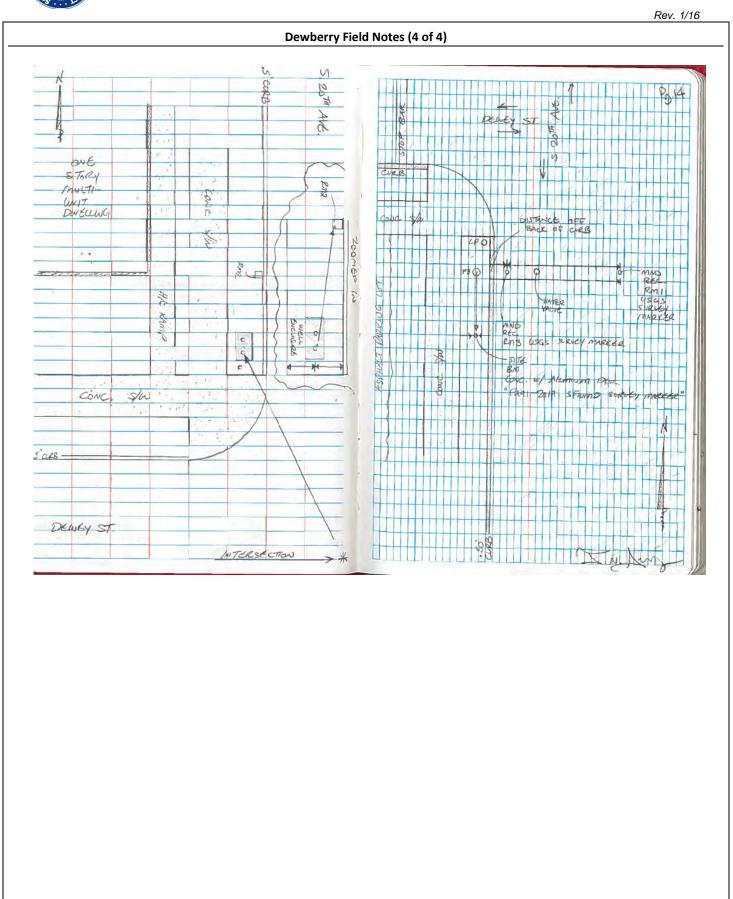
Dewberry Field Notes (2 of 4)













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Whidden Field Notes (1 of 1)

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T0.41216	RE BASE S/N 4639122 431
PUMPLE	
RIMBLE	RE-2 ROVER S/N 4639127 445
	TOOL STANDARD STUMP ALWAYN DISK
CCUPY	FEG - STANDARD SFUMO ALUMINUM OISK
	IN CONCRETE
++++++	
	
++++++++	UL 5.55 F+ 1.692 M
	1.624 FT
	MEAS. TO BASE OF ANT.
	<u> </u>
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START	9:09 AM
1	
5100 .	维程 4 %
	1:12, AM
	<u></u>
CHECK 6	SHOT: MORRIS AZ MX (AC4697)
	TOTAL PLANTAGE AND
	: 30000 (180 epochs)
A	10000 1 80 epochs)
STORE PT	
STORE PI	
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ж инсья	RECTED EL : 12.26 NAVE 28
ж инсья	RECTED EL : 12.26 NAVD 22
ж инсья	RECTED EL : 12.26 NAVE 28

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