SURVEYOR'S REPORT

Specific Purpose Survey of the
United States Geological Survey
Recorder Well G-973
in
Miami-Dade County, Florida

Prepared for:

South Florida Water Management District

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Prepared by:

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Florida Professional Surveyor and Mapper
License Number 5666
State of Florida

Biscayne Engineering Company, Inc. LB No 0129
529 West Flagler Street, Miami, FL. 33130
Tel (305) 324-7671

Field Date: June 05, 2019
Report Date: June 10, 2019

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PURPOSE

The purpose of this survey is to set an Elevation Reference Mark (Benchmark) being a mag nail and washer and to establish a North American Vertical Datum of 1988 (NAVD 88) elevation on said Benchmark and on an additional Reference Point with a Brass plate, both at United States Geological Survey Well **G-973**.

LOCATION OF PROJECT

The United States Geological Survey's Recorder Well **G-973** is located in Section 5, Township 53 South, Range 40 East, Miami-Dade County, Florida.

General Location (Intended Display scale is "Not to Scale")

PROJECT VERTICAL DATUM

The project vertical datum is the North American Vertical Datum (NAVD) of 1988.

To convert the NAVD 88 elevation to the National Geodetic Vertical Datum of 1929 at station **G-973 add 1.55'**. These values are based on Corpscon 6.0.1 a US. 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 US. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.

PROJECT HORIZONTAL DATUM

The project horizontal datum is the North American Datum 83 (NAD 83(2011)) (EPOCH:2010.0000).

LEVELING METHODS

The leveling for this project was performed in accordance with standard survey practice using conventional third order methods, techniques and equipment.
The allowable error (.05 √miles) on this project meets or exceeds third order closures as required by SFWMD for this project per executed SOW for 4600003705-WO04 and discussions with SFWMD. A level loop was run from the NGS Benchmark 87 93 A 39 (PID AB7776), through the well site, and to the NGS Benchmark 87 91 C 28 (PID AA5357). The measurements were collected using an Automatic Level and were hand written in Biscayne Engineering Co, Inc. Field Book 2981 pages 46-48, dated March 28, 2019 and Field Book 2981 pages 66-,70 June 05, 2019, reduced and adjusted electronically. Additional data was manually recorded in the field book.

GPS METHODS

Latitude and Longitude for Benchmark G-973 were established by observing a 3-minute session of GPS data on March 28, 2019, using a Trimble R-8-S and The Florida Permanent Reference Network (FPRN). The FPRN network consists of nearly 100 Continuously Operating Reference Stations (CORS) located throughout Florida.

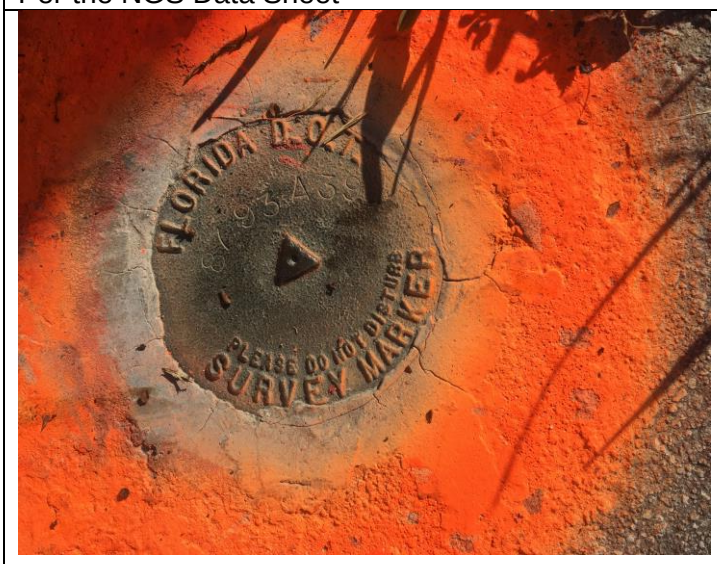
EQUIPMENT USED

- Trimble GPS unit R-8-S, Serial Number 5625R066118.
- TOPCON DL-502 digital level Serial Number 512386 and a folding bar code rod.
- TOPCON Total Station ES 103, Serial Number ZQ000748.
- TOPCON Auto-level ATG3, Serial Number 5F9515.

VERTICAL CONTROL POINT

The Vertical Control point utilized and set as part of this survey is the:

NGS BM 87 93 A 39 (PID AB7776)						
25°52'30" (N)	80°21'03" (W)		6.14 ft.	(NAVD88)	1.87 m	Published
Per the NGS Data Sheet						



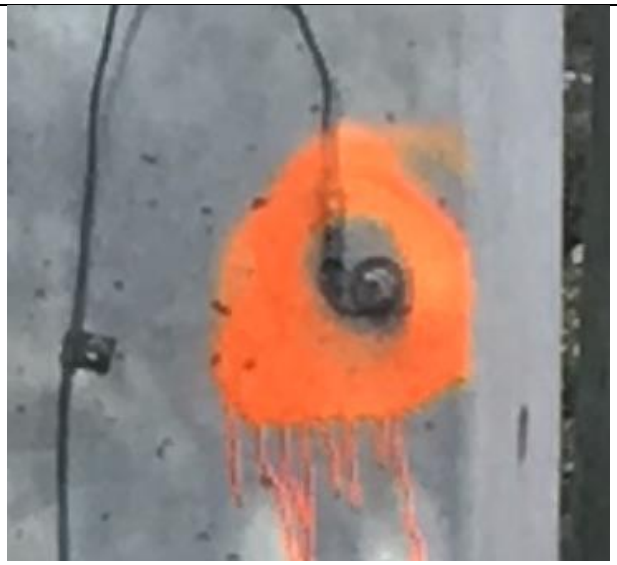
0.65 MILE NW OF NW 105TH WAY. 35' SW OF C/L OF SE BOUND LANE OKEECHOBEE RD.

DOT DISK IN CONCRETE AT THE NORTH CORNER OF STORM DRAIN.

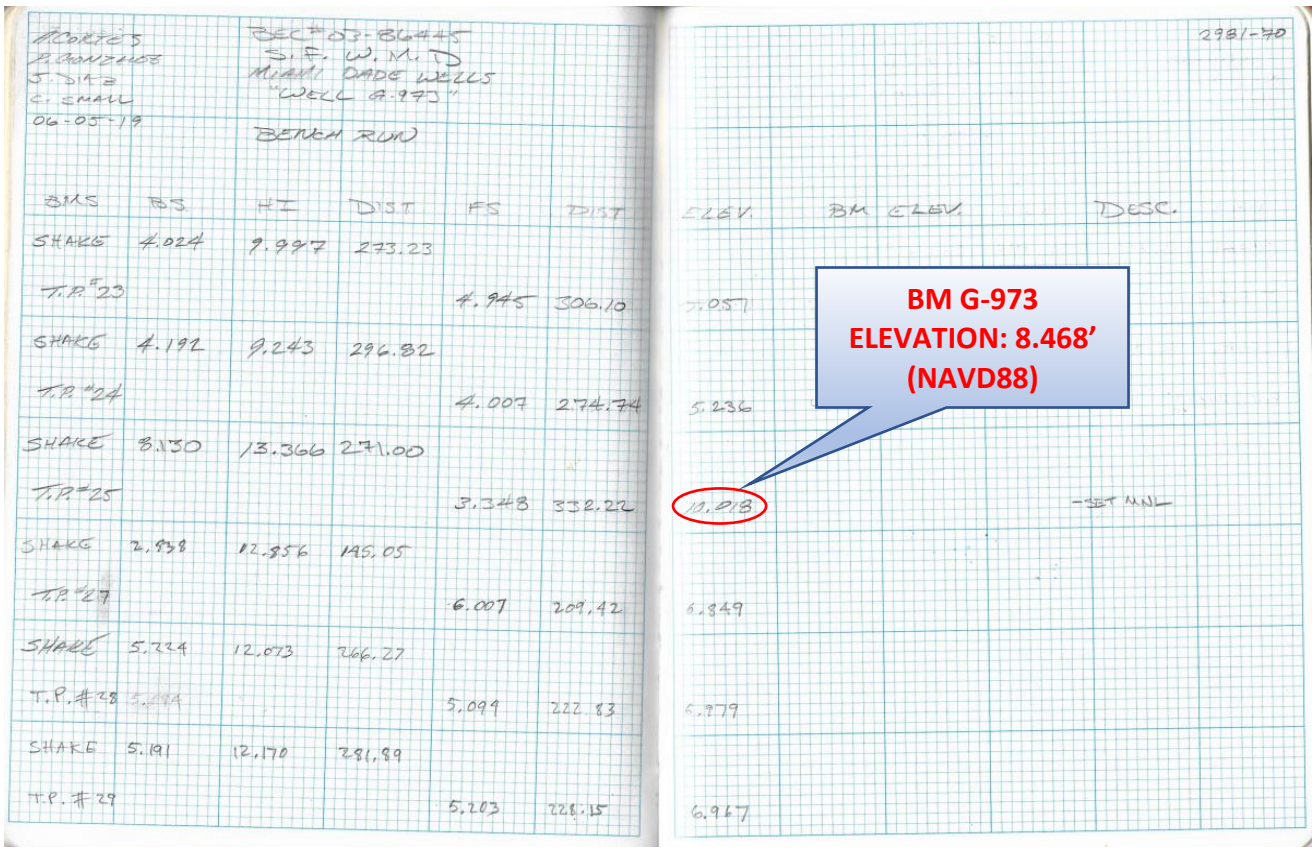
NGS BM 87 91 C 28 (PID AA5357)						
25°51'41" (N)	80°19'58" (W)		3.72 ft.	(NGVD 29)	1.13 m	Published
Per the NGS Data Sheet						

1108' WEST OF C/L OF NW 95TH STREET. 19' SOUTH OF EDGE OF PAVEMENT OF EASTBOUND LANE OF OKEECHOBEE ROAD

BRASS DISK IN CORNER OF 4'X5' CONCRETE STORM DRAIN.

BM: G-973 (Set as part of this survey)					
25°52'10.67 (N)	80°21'19.55" (W)	8.468 ft.	(NAVD88)	2.58 m	Level run
		10.018ft.	(NGVD29)	3.05 m	Converted
			1.55 ft. (conversion factor)		Corpscon 6.0.1
		MAG NAIL AND WASHER BEC 0129. SET IN CONCRETE LIGHT POLE BESIDE WELL SHELTER.			

Field Book 2981, Page 70



PROJECT RESULTS

Overall Site

GENERAL AREA

(Oblique not to scale)

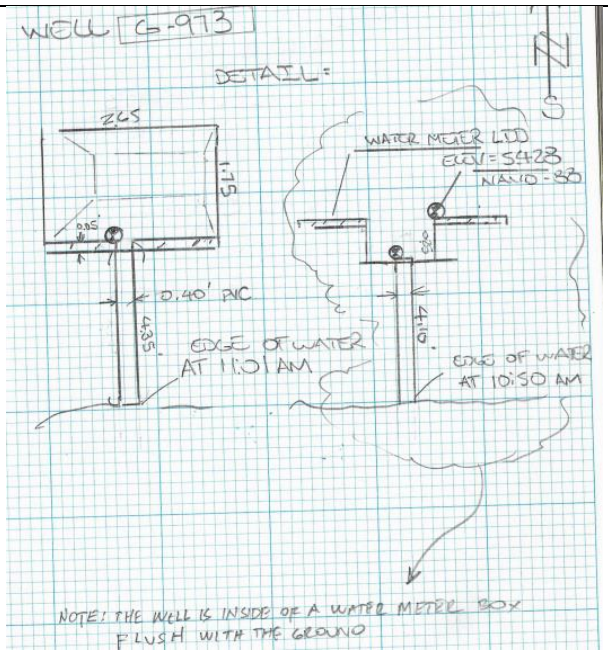
Tabular Form

Reference and Ground Elevations: NAVD88			
Well	Ground Elevation	Reference Elevation	Comments
G-973	5.15 ft.	5.21 ft.	Top of 6" PVC PIPE
Offset to NGVD29: +1.55' (See Project Vertical Datum Notes in Page: 4)			
Well diameter		Casing material	DTW
6"		Metal	4.10 ft. (03/28/19 at 10:50 AM)

USGS Published: (Per USGS Report Site #: 255209080212801 G-973) (NGVD29)			
Well	Ground Elevation	Reference Elevation	Comments
G-973	-	6.867 ft.	Top of casing

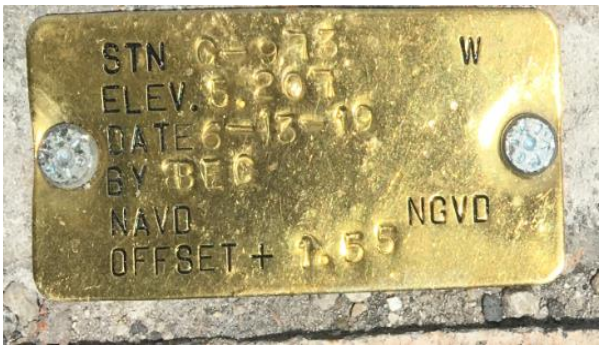
Source & Site Benchmark	NAVD88	NGVD29	NGVD29 (Corpscon)
87 93 A 39 NGS)	6.14 ft. (Published)		
87 91 C 28 (NGS)	3.72 ft. (Published)		
G-973 (SFWMD)	8.468 ft. (Measured)		10.018 ft. (Converted)
RM-1	7.766 ft. (Measured)		
RM-2	4.937 ft. (Measured)		

Well Photos and Diagrams



Well Photos and Diagrams (Continued)

Side view (Oblique Not to scale)



Top view (Not to scale)

Surveyor's Notes:

1. All measurements herein are in United States Survey feet and decimal thereof, unless otherwise specified.
2. Underground utilities were not located as part of this survey.
3. This survey report or copies thereof are not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.
4. Additions or deletions to this survey report by other than the signing party (or parties) is prohibited without written consent of the signing party (or parties).
5. To convert from NAVD 88 to NGVD 29 add 1.55 feet. This value is based on 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.
6. Date of last field work: June 05, 2019, BEC job No. 03-86445.
7. SFWMD Data records (on file at the District's headquarters):
   A. Electronic Data files:
      Miscellaneous picture files

   B. Conventional reporting
      Field Book: 2981, Pages: 46-48 and 66-71

Abbreviations:

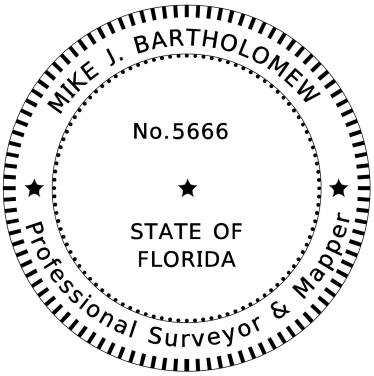
El.	-	Elevation
DTW	-	Distance to the water table inside the well
M-DC	-	Miami-Dade County
NAVD 88	-	North American Vertical Datum of 1988
NGVD 29	-	National Geodetic Vertical Datum of 1929
NGS	-	National Geodetic Survey
PSM	-	Professional Surveyor & Mapper
PID	-	Permanent Identifiers
SFWMD	-	South Florida Water Management District
USGS	-	United States Geological Survey
BEC	-	Biscayne Engineering Company, Inc.

SURVEYOR'S CERTIFICATION

In my professional opinion this Specific Purpose Survey meets applicable portions of the Standards of Practice set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

Michael Bartholomew
2019.07.02 18:37:47 -04'00'

Last date of Survey
June 05, 2019



Mike Bartholomew, PSM, President
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State of Florida
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Tel (305) 324-7671

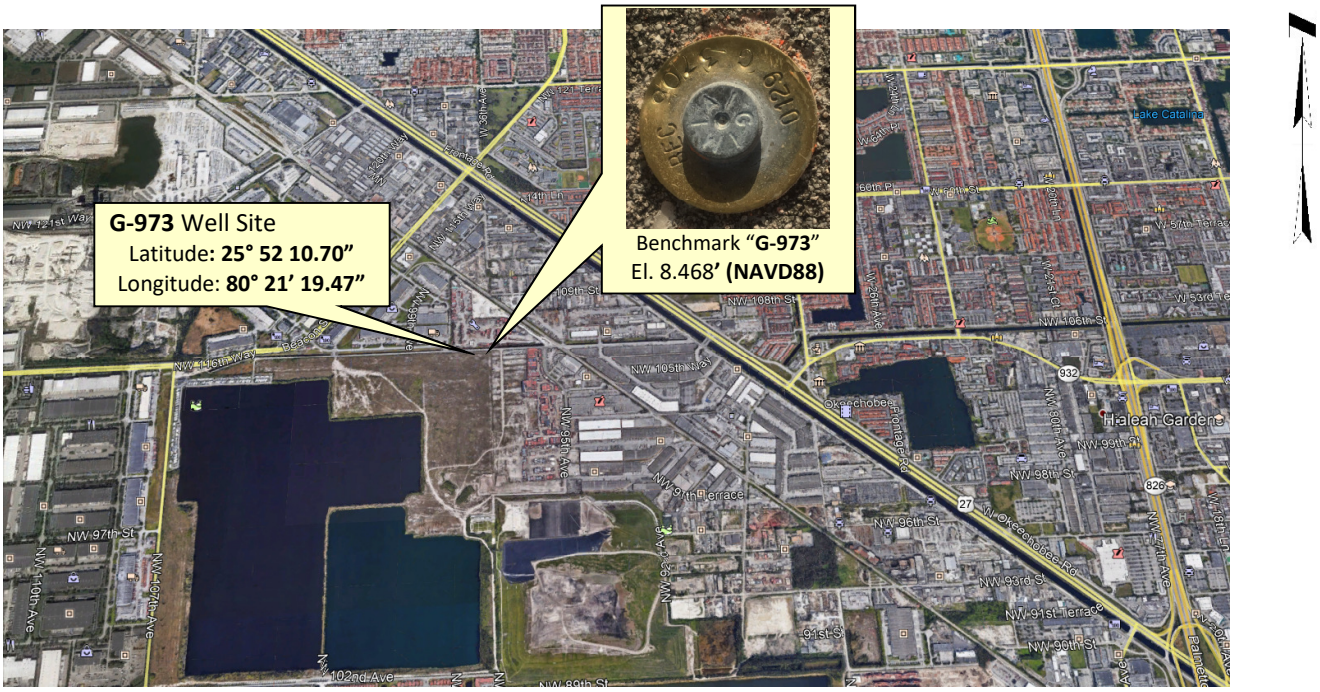
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/18

DESIGNATION: G-973		PROJECT: G-973	
ESTABLISHED BY: **SOUTH FLORIDA WATER MANAGEMENT DISTRICT** RECOVERED BY: BISCAYNE ENGINEERING CO.		SURVEYOR: Mike Bartholomew DATE: 06/17/19	
GEOGRAPHIC POSITION			
SECTION 05	TOWNSHIP 53 SOUTH	RANGE 40 EAST	
COUNTY: MIAMI-DADE	NAME OF QUADRANGLE: HIALEAH (1994) GEOGRAPHIC INDEX OF QUAD:		
HORIZONTAL DATUM: 1927 **(1983)** 2022 Other___ *(circle one)* ZONE **(E)** or W			
VERTICAL DATUM: MSL 1929 **(1988)** 2022 Other ____ *(circle one)*			
VERTICAL ACCURACY: 1 2 **(3)**			
STATE PLANE COORDINATE	(N) Y= 382594.498	(E) X= 807522.874	NAVD 88 EL. 5.495 NGVD 29 EL. 7.070
CORPSCON 6.0.1 CONVERSION FACTOR (NAVD88 TO NGVD29): (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.) ACTUAL NGS or (ngvd29.txt file) OPUS Ortho Height			
LATITUDE: **25° 52‘ 10.67“ (N)**	LONGITUDE: **80° 21‘ 19.55“ (W)** **(Source) GPS RTK (FPRN)**		
RECOVERY DATA			
Stamping: G-973 BEC 0129			
To Reach:			
NOTABLE LAND MARKS:			
NGS-SOURCE BENCHMARKS: 87 91 C 28, 87 93 A 39			
FIELD BOOK PAGE ____2981-70			

PICTURES

Aerial Overall Site



NOT TO SCALE (Google Earth product)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/18

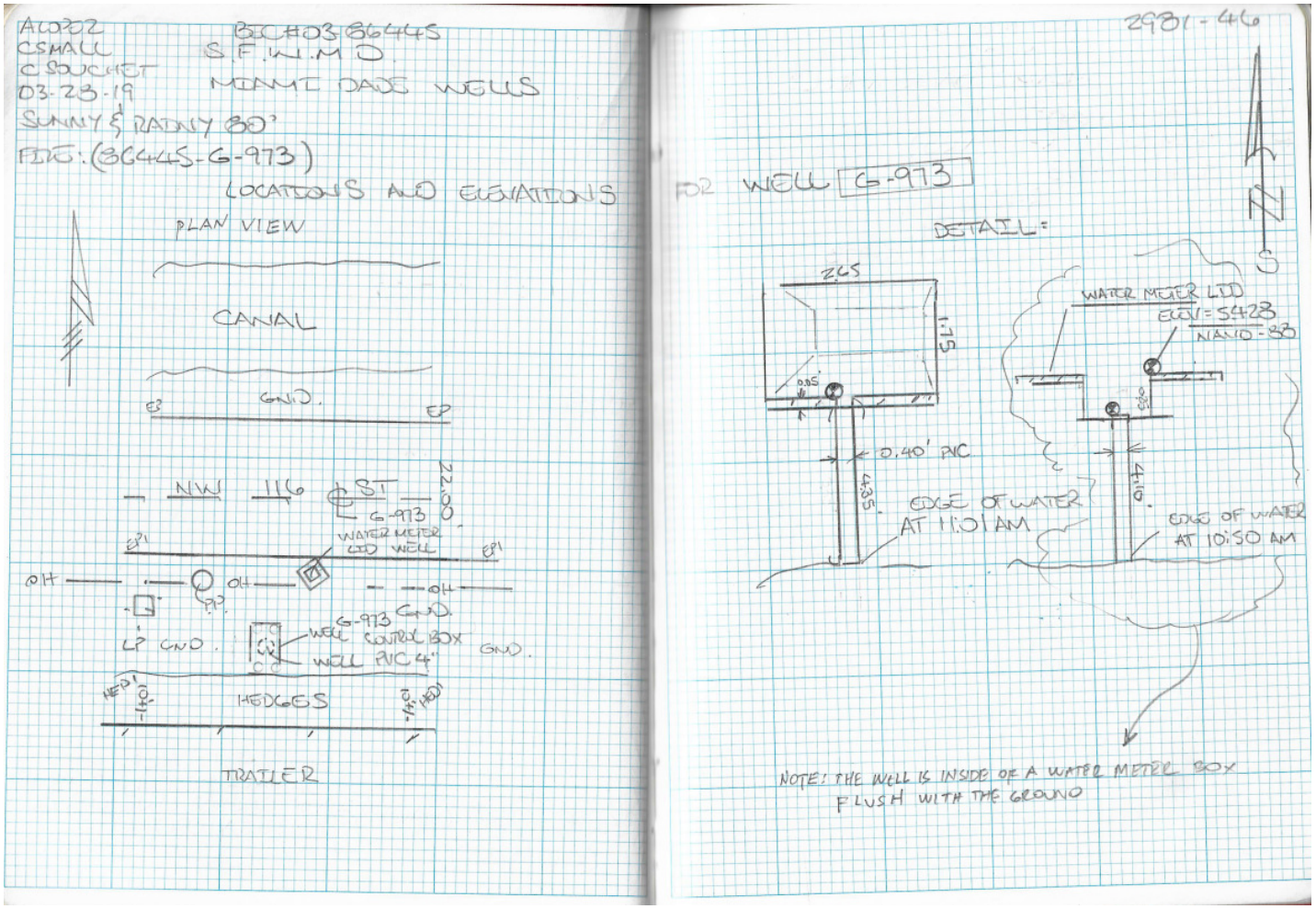
Overall Site

Looking XXXXX (Oblique not to scale)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/18

SKETCH



FIELD BOOK 2981, PAGE 46

Office

Project

11 June 2019

INPUT	OUTPUT
State Plane, NAD83 0901 - Florida East, U.S. Feet Vertical - NAVD88, U.S. Feet	Geographic, NAD83 Vertical - NGVD29 (Custom), U.S. Feet

G-973

Northing/Y: 558827.3205
Easting/X: 868111.9099
Elevation/Z: 8.45
Convergence: 0 16 52.50696
Scale Factor: 0.999992687
Combined Factor: 0.999996199

Latitude: 25 52 10.66661
Longitude: 80 21 19.54615
Elevation/Z: 10.002

Remark:

Office

Project

11 June 2019

INPUT	OUTPUT
State Plane, NAD83 0901 - Florida East, U.S. Feet Vertical - NAVD88, U.S. Feet	Geographic, NAD83 Vertical - NGVD29 (Custom), U.S. Feet

BM # 1

1/2

Northing/Y: 558829.9487
Easting/X: 868202.6094
Elevation/Z: 4.776
Convergence: 0 16 52.94054
Scale Factor: 0.999992732
Combined Factor: 0.999996419

Latitude: 25 52 10.68823
Longitude: 80 21 18.55305
Elevation/Z: 6.328

BM # 2

2/2

Northing/Y: 558825.5687
Easting/X: 868422.4558
Elevation/Z: 5.680
Convergence: 0 16 53.99016
Scale Factor: 0.999992839
Combined Factor: 0.999996483

Latitude: 25 52 10.63415
Longitude: 80 21 16.14644
Elevation/Z: 7.232

Remark:

A CORTES
R GONZALEZ
J. DIAZ
C. SMALL
06-05-19
DIN. FILE = B6445-C2

REC #03-86445
S.F.W.M.D
MIAMI DADE WELLS
WELL "G-973"

BENCH RUN G973

2981-66

BMS	BS	HI	DIST	FS	DIST	ELEV.	BM ELEV.	DESC.
NAVD88								
87 93 A 39" -NGS B.M.-	3.940	10.075	164.40				6.135	NGS DISK SET IN TOP OF NORTH CORNER OF STORM DRAIN.
T.P. #1				5.282	39.96	4.795		
SHAKE	5.419	10.212	239.34					
T.P. #2				5.190	311.74	5.022		
SHAKE	5.190	10.212	266.31					
T.P. #3				5.379	241.24	4.833		
SHAKE	4.898	9.731	244.98					
				3.889	241.73	5.841		
T.P. #4	4.674	10.515	218.57					
				4.217	229.76	6.299		
SHAKE	4.985	11.284	237.80					
				5.737	254.86	5.547		

A. CORTES
P. GONZALEZ
J. DIAZ
C. SMALL
06-05-19

BEC #03-86445
S. F. W. M. D
MIAMI DADE WELLS
"WELL G-973"

2981-67

BMS	BS	HI	DIST.	FS	DIST	ELEV.	BM ELEV.	DESC.
SHAKE	5.578	11.065	318.96					
T.P.#7				6.433	243.44	4.632		
SHAKE	6.205	10.847	213.22					
T.P.#8				4.572	108.66	6.275		
SHAKE	5.716	11.991	203.90					
TP#9				6.018	232.81	5.973		
SHAKE	4.131	10.103	218.08					
T.P.#10				4.500	254.23	5.603		
SHAKE	4.661	10.264	236.48					
T.P.#11				4.207	288.45	6.057		
SHAKE	4.366	10.923	147.77					
T.P.#12				5.624	258.96	5.299		

SAME CREW
06-05-19

BEC# 03-86445
S. F. W. M. D.
MIAMI DADE WELLS
"WELL G-973"

BENCH RUN (CONT.)

BMS	BS	HI	DIST	FS	DIST	ELEV.	BM ELEV.	DESC.
SHAKE	4.989	10.283	254.79					
T.P.#13				5.894	245.21	4.394		
SHAKE	4.756	9.150	279.53					
T.P.14				4.177	162.24	4.973		
SHAKE	5.336	10.309	122.60					
BM2 (#15)				4.629	142.62	5.680	5.721	
SHAKE	5.055	10.735	52.03					
BM1				5.959	271.92	4.776	4.779'	
SHAKE	5.879	10.655	271.46					
T.P.#16				5.038	240.19	5.617		
SHAKE	6.381	10.998	213.78					
				4.947	284.22	6.051		

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SAME CREW
06-25-19

BEC #05-86445
S.F.W.M.D.
MIAMI-DADE WELLS
"WELL G-873"

BENCH RUN (CONT.)

BMS	BS	HI	DIST	FS	DIST	ELEV	BM ELEV.	DESC.
SHAKE	5.351	11.403	220.05					
T.P. #17				6.339	291.17	5.064		
SHAKE	4.565	9.629	274.84					
T.P. #18				4.890	282.22	4.738		
SHAKE	5.437	10.176	280.31					
T.P. #19				4.988	258.33	5.188		
SHAKE	4.852	10.040	280.18					
T.P. 20				4.597	261.19	5.443		
SHAKE	5.076	10.519	251.68					
T.P. #21				2.593	122.47	7.927		
SHAKE	2.491	10.418	309.74					
T.P. #22				4.445	319.49	5.973		

ACORTES
P. GONZALEZ
J. DIAZ
C. SMALL
06-05-19

SEC # 03-86445
S. F. W. M. D
MIAMI DADE WELLS
"WELL G-973"

BENCH RUN

BMS	BS	HI	DIST	FS	DIST	ELEV.	BM ELEV.	DESC.
SHAKE	4.024	9.997	273.23					
T.P. # 23				4.945	306.10	5.057		
SHAKE	4.192	9.243	296.82					
T.P. # 24				4.007	274.74	5.236		
SHAKE	8.130	13.366	271.00					
T.P. # 25				3.348	332.22	10.018		-SET NAIL
SHAKE	2.838	12.856	145.05					
T.P. # 27				6.007	209.42	6.849		
SHAKE	5.224	12.073	266.27					
T.P. # 28	5.094			5.094	222.83	6.979		
SHAKE	5.191	12.170	281.89					
T.P. # 29				5.203	228.15	6.967		

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J. DIAZ
P. Gonzalez
C. Leal
06-06-19

BEC #03-86445
S.F. W.M.D
Miami Dade Wells
G-973
Bench Run

2981-71

BMS	BS	HI	DIST	FS	DIST	ELEV	BM	ELEV	DESC
SHAKE	5.211	12.178	233.33						
T.P.#30				5.189	237.53	6.990			
SHAKE	5.132	12.121	347.21						
BM 8791C28 NAVD88				8.354	195.57	3.768	8791C28	3.724	BRASS DISC
							(TIE -0.044)		

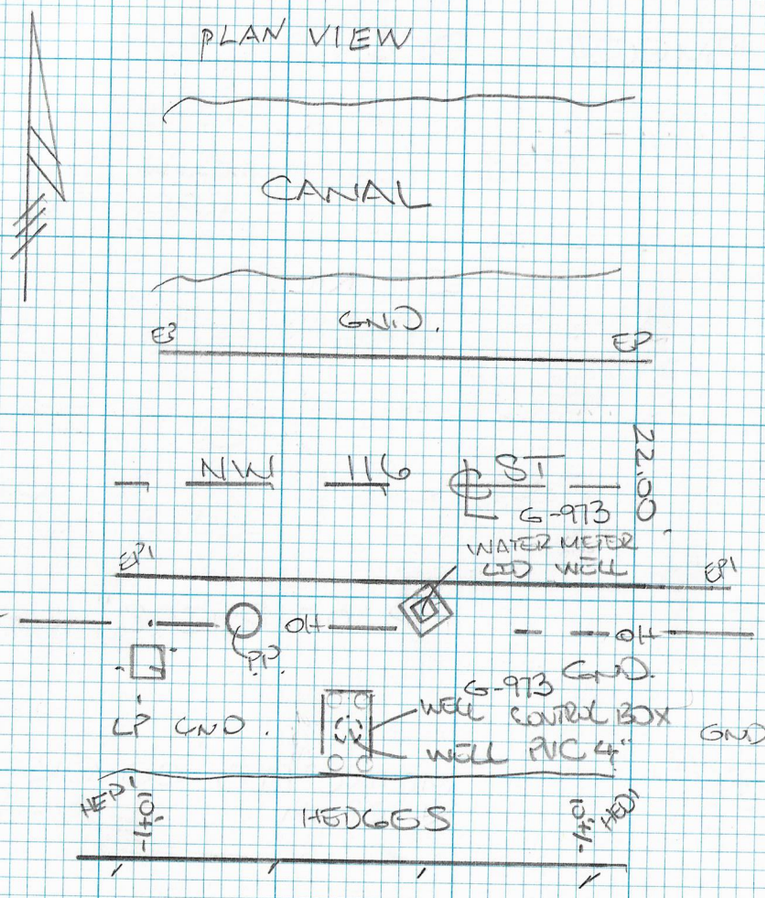
ALOEZ
CSMALL
CSOUCHET
03-28-19
SUNNY & RAINY 80°

BCH03 86445
S.F.W.M.D.
MIAMI DADE WELLS

FILE: (86445-G-973)

LOCATIONS AND ELEVATIONS

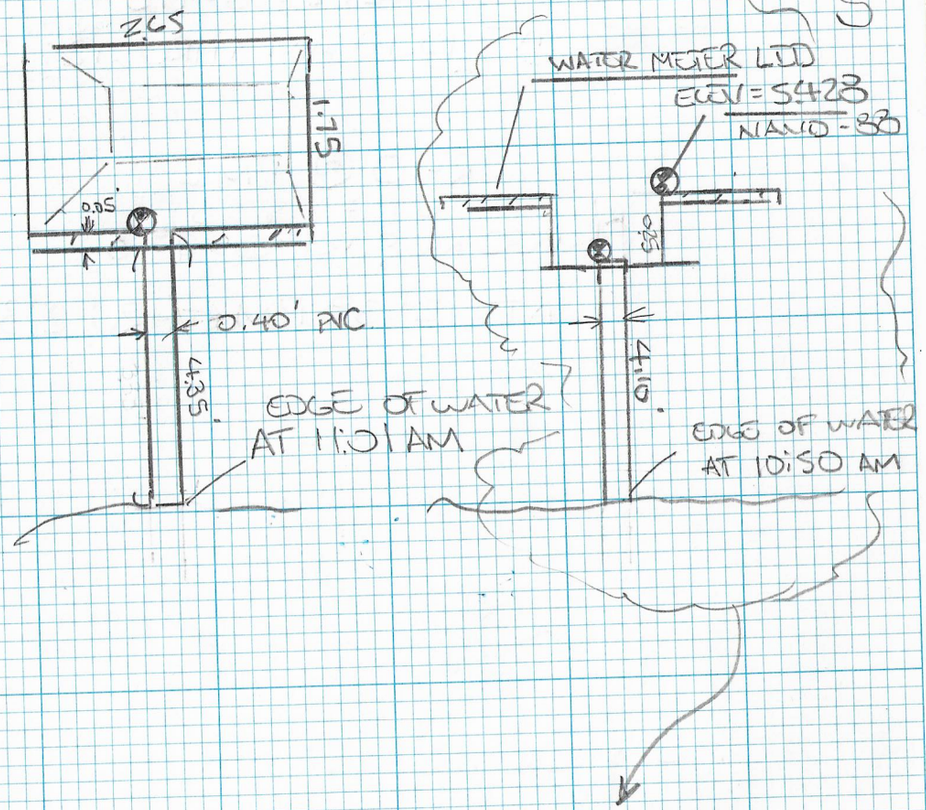
PLAN VIEW



2981-46

FOR WELL G-973

DETAIL:



NOTE! THE WELL IS INSIDE OF A WATER METER BOX FLUSH WITH THE GROUND

ALDRED
CSMALL
CSOUCHET
03-23-19
RADIAL 80'
GPS: TRIMBLE-1, R-10 (VRS)
FILE: 86445-G-973

BEC #03-86445
S.F.W.M.D.
MIAMI DADE WELLS
GPS - BM'S

R-10 @ BM2
HI = 4.99
BEC NL & WI G-973
AT 10:10 AM THRU 12:10 P.M

R-10 @ BM1
HI = 5.33
BEC NL & WI G-973
AT 12:38 PM THRU 2:38 PM

AUTO LEVEL
C. SMALL
C. SAUCHET
03-28-19

BEC #03-BC445
S.F.W.M.D.
MIAMI DADE WELLS

RADIAL 80° BENCH RUN FOR G-973 WELLS

	BS	MEAN	HI	FS	MEAN
BM1	5625 5479 5535	5.546	10.267		
TOP OF 6" PVC.				5275 5053 4831	5053
GND. SHOT FOR BOTH WELLS				5468 5208 4948	5208
TOP OF 4" PVC				2088 1819 1553	1818
SHAKE	205 128 0.50	1.278	9727		
BM2				480 402 324	402

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GLEV.	BMELEV.	DESC.
	4.779	BEC NAIL & WASHER STAMPED G-973 200 FT EAST OF WELLS. NW 106 ST -- 12' SOUTH OF CENTER LINE.
5.214		TOP OF PVC PIPE WELL
5.059		GND SHOTS
3.449		TOP OF PVC PIPE WELL
		BEC NAIL & WASHER STAMPED G-973 NW 106 ST --- 10' SOUTH OF ℄ PUMP STATION 1 --- 10' WEST OF 9700 NW 106 ST PUMP STATION 1
5.707	5.721	

ERR: 0.014
(NOTE: ELEVATIONS NOT ADJUSTED)

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.12.5.3
1        National Geodetic Survey,   Retrieval Date = JUNE 11, 2019
 AA5357 ***********************************************************************
 AA5357  DESIGNATION -  87 91 C 28
 AA5357  PID         -  AA5357
 AA5357  STATE/COUNTY-  FL/MIAMI-DADE
 AA5357  COUNTRY     -  US
 AA5357  USGS QUAD   -  HIALEAH (1994)
 AA5357
 AA5357                        *CURRENT SURVEY CONTROL
 AA5357  ______________________________________________________________________
 AA5357* NAD 83(1986) POSITION- 25 51 41.     (N) 080 19 58.     (W)   SCALED
 AA5357* NAVD 88 ORTHO HEIGHT -     1.135 (meters)        3.72  (feet) ADJUSTED
 AA5357  ______________________________________________________________________
 AA5357  GEOID HEIGHT    -        -25.039 (meters)                     GEOID12B
 AA5357  DYNAMIC HEIGHT  -          1.133 (meters)        3.72  (feet) COMP
 AA5357  MODELED GRAVITY -    979,042.3   (mgal)                       NAVD 88
 AA5357
 AA5357  VERT ORDER      -  FIRST     CLASS II
 AA5357
 AA5357.The horizontal coordinates were scaled from a topographic map and have
 AA5357.an estimated accuracy of +/- 6 seconds.
 AA5357.
 AA5357.The orthometric height was determined by differential leveling and
 AA5357.adjusted by the NATIONAL GEODETIC SURVEY
 AA5357.in April 2001.
 AA5357
 AA5357.WARNING-Repeat measurements at this control monument indicate possible
 AA5357.vertical movement.
 AA5357
 AA5357.Significant digits in the geoid height do not necessarily reflect accuracy.
 AA5357.GEOID12B height accuracy estimate available here.
 AA5357
 AA5357.The dynamic height is computed by dividing the NAVD 88
 AA5357.geopotential number by the normal gravity value computed on the
 AA5357.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AA5357.degrees latitude (g = 980.6199 gals.).
 AA5357
 AA5357.The modeled gravity was interpolated from observed gravity values.
 AA5357
 AA5357;                    North         East     Units  Estimated Accuracy
 AA5357;SPC FL E     -   169,430.      266,880.      MT  (+/- 180 meters Scaled)
 AA5357
 AA5357_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ668605(NAD 83)
 AA5357
 AA5357                           SUPERSEDED SURVEY CONTROL
 AA5357
 AA5357.No superseded survey control is available for this station.
 AA5357
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AA5357_MARKER: DD = SURVEY DISK
AA5357_SETTING: 30 = SET IN A LIGHT STRUCTURE
AA5357_SP_SET: STORM DRAIN
AA5357_STAMPING: 87 91 C 28
AA5357_MARK LOGO: FLDT
AA5357_MAGNETIC: N = NO MAGNETIC MATERIAL
AA5357_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AA5357_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AA5357+SATELLITE: SATELLITE OBSERVATIONS - January 16, 2005
AA5357
AA5357 HISTORY   - Date   Condition   Report By
AA5357 HISTORY   - 1991   MONUMENTED   FLDT
AA5357 HISTORY   - 19950905 GOOD   NGS
AA5357 HISTORY   - 20050116 GOOD   BAKER
AA5357
AA5357   STATION DESCRIPTION
AA5357
AA5357'DESCRIBED BY NATIONAL GEODETIC SURVEY 1995 (RLT)
AA5357'THE MARK IS ABOUT 16.7 MI (26.9 KM) NORTH-NORTHWEST OF MIAMI, 2.6 MI
AA5357'(4.2 KM) WEST OF HIALEAH IN SECTION 3, TOWNSHIP 52 SOUTH, RANGE 40
AA5357'EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 27 AND
AA5357'THE EASTBOUND LANES OF INTERSTATE 75 (ALLIGATOR ALLEY), GO SOUTH ON
AA5357'U.S. HIGHWAY 27 FOR 5.90 MI (9.49 KM) TO THE INTERSECTION OF STATE
AA5357'HIGHWAY 818 (GRIFFIN ROAD), CONTINUE SOUTH ON U.S. HIGHWAY 27 FOR 3.55
AA5357'MI (5.71 KM) TO THE INTERSECTION OF PINES BOULEVARD, CONTINUE SOUTH ON
AA5357'U.S. HIGHWAY 27 FOR 7.75 MI (12.47 KM) TO THE DADE-BROWARD COUNTY
AA5357'LINE, CONTINUE SOUTH ON U.S. HIGHWAY 27 TO THE JUNCTION OF STATE
AA5357'HIGHWAY 997, CONTINUE SOUTH ON U.S. HIGHWAY 27 FOR 8.15 MI (13.12 KM)
AA5357'TO THE JUNCTION OF NW 105TH WAY, CONTINUE SOUTHWEST ON U.S. HIGHWAY 27
AA5357'FOR 0.85 MI (1.37 KM) TO MARK ON THE RIGHT, SET ON THE TOP OF THE EAST
AA5357'CORNER OF A 7.4 FT (2.3 M) X 6.4 FT (2.0 M) STORM DRAIN. ALSO 0.9 MI
AA5357'(1.4 KM) NORTH OF THE INTERSECTION OF U.S. HIGHWAY 27 AND STATE
AA5357'HIGHWAY 826 (PALMETTO EXPRESSWAY). LOCATED 47.0 FT (14.3 M) SOUTHWEST
AA5357'OF THE CENTERLINE OF U.S. HIGHWAY 27, 20.0 FT (6.1 M) SOUTHWEST OF THE
AA5357'EDGE OF THE ASPHALT, 10.4 FT (3.2 M) NORTHEAST OF A FLDOT METAL
AA5357'WITNESS POST AND 8.7 FT (2.7 M) NORTHEAST OF THE METAL GUARDRAIL.
AA5357
AA5357   STATION RECOVERY (2005)
AA5357
AA5357'RECOVERY NOTE BY M BAKER JR INCORPORATED 2005 (RH)
AA5357'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04

The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.12.5.3
1        National Geodetic Survey,   Retrieval Date = JUNE 11, 2019
 AB7776 ***********************************************************************
 AB7776  DESIGNATION -  87 93 A 39
 AB7776  PID         -  AB7776
 AB7776  STATE/COUNTY-  FL/MIAMI-DADE
 AB7776  COUNTRY     -  US
 AB7776  USGS QUAD   -  HIALEAH (1994)
 AB7776
 AB7776                        *CURRENT SURVEY CONTROL
 AB7776  ______________________________________________________________________
 AB7776* NAD 83(1986) POSITION- 25 52 30.     (N) 080 21 03.     (W)   SCALED
 AB7776* NAVD 88 ORTHO HEIGHT -     1.870 (meters)        6.14  (feet) ADJUSTED
 AB7776  ______________________________________________________________________
 AB7776  GEOID HEIGHT    -        -25.001 (meters)                     GEOID12B
 AB7776  DYNAMIC HEIGHT  -          1.867 (meters)        6.13  (feet) COMP
 AB7776  MODELED GRAVITY -    979,042.5   (mgal)                       NAVD 88
 AB7776
 AB7776  VERT ORDER      -  FIRST     CLASS II
 AB7776
 AB7776.The horizontal coordinates were scaled from a topographic map and have
 AB7776.an estimated accuracy of +/- 6 seconds.
 AB7776.
 AB7776.The orthometric height was determined by differential leveling and
 AB7776.adjusted by the NATIONAL GEODETIC SURVEY
 AB7776.in March 1997.
 AB7776
 AB7776.Significant digits in the geoid height do not necessarily reflect accuracy.
 AB7776.GEOID12B height accuracy estimate available here.
 AB7776
 AB7776.The dynamic height is computed by dividing the NAVD 88
 AB7776.geopotential number by the normal gravity value computed on the
 AB7776.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AB7776.degrees latitude (g = 980.6199 gals.).
 AB7776
 AB7776.The modeled gravity was interpolated from observed gravity values.
 AB7776
 AB7776;                   North         East     Units  Estimated Accuracy
 AB7776;SPC FL E     -   170,930.      265,060.      MT  (+/- 180 meters Scaled)
 AB7776
 AB7776_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ650620(NAD 83)
 AB7776
 AB7776                          SUPERSEDED SURVEY CONTROL
 AB7776
 AB7776.No superseded survey control is available for this station.
 AB7776
 AB7776_MARKER: DD = SURVEY DISK
 AB7776_SETTING: 30 = SET IN A LIGHT STRUCTURE
 AB7776_SP_SET: STORM DRAIN
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AB7776_STAMPING: 87 93 A 39
AB7776_MARK LOGO: FLDT
AB7776_MAGNETIC: N = NO MAGNETIC MATERIAL
AB7776_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AB7776_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AB7776+SATELLITE: SATELLITE OBSERVATIONS - August 03, 1993
AB7776
AB7776 HISTORY   - Date   Condition   Report By
AB7776 HISTORY   - 1993   MONUMENTED   FLDT
AB7776 HISTORY   - 19930803 GOOD   NGS
AB7776
AB7776   STATION DESCRIPTION
AB7776
AB7776'DESCRIBED BY NATIONAL GEODETIC SURVEY 1993 (RLT)
AB7776'THE MARK IS ABOUT 18.0 MI (29.0 KM) NORTH-NORTHWEST OF MIAMI, 4.0 MI
AB7776'(6.4 KM) NORTHWEST OF HIALEAH IN SECTION 33, TOWNSHIP 52 SOUTH, RANGE
AB7776'40 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 27
AB7776'AND THE EASTBOUND LANES OF INTERSTATE 75 (ALLIGATOR ALLEY), GO SOUTH
AB7776'ON U.S. HIGHWAY 27 FOR 5.90 MI (9.49 KM) TO THE INTERSECTION OF STATE
AB7776'HIGHWAY 818 (GRIFFIN ROAD), CONTINUE SOUTH ON U.S. HIGHWAY 27 FOR 3.55
AB7776'MI (5.71 KM) TO THE INTERSECTION OF PINES BOULEVARD, CONTINUE SOUTH ON
AB7776'U.S. HIGHWAY 27 FOR 7.75 MI (12.47 KM) TO THE DADE-BROWARD COUNTY
AB7776'LINE, CONTINUE SOUTH ON U.S. HIGHWAY 27 TO THE JUNCTION OF STATE
AB7776'HIGHWAY 997, CONTINUE SOUTH ON U.S. HIGHWAY 27 FOR 7.5 MI (12.1 KM) TO
AB7776'THE MARK ON THE RIGHT, SET ON THE TOP OF THE NORTH CORNER OF A 7.4 FT
AB7776'(2.3 M) X 6.4 FT (2.0 M) STORM DRAIN. ALSO 0.65 MI (1.05 KM)
AB7776'NORTHWEST OF THE JUNCTION OF NW 105TH WAY. LOCATED 36.0 FT (11.0 M)
AB7776'SOUTHWEST OF THE CENTERLINE OF U.S. HIGHWAY 27, 8.5 FT (2.6 M) WEST OF
AB7776'THE EDGE OF THE ASPHALT AND 7.3 FT (2.2 M) NORTHEAST OF THE METAL
AB7776'GUARDRAIL.

*** retrieval complete.
Elapsed Time = 00:00:04