



SURVEYOR'S REPORT

**Specific Purpose Survey of the
United States Geological Survey
Recorder Well G-3700
in
Miami-Dade County, Florida**

Prepared for:

South Florida Water Management District

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Field Date: March 28, 2019
Report Date: April 24, 2019
BEC Order #: 03-86445

INSPIRED BEYOND MEASURE • SINCE 1898

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TABLE OF CONTENTS

Title	Page
Cover Sheet	1
Table of Contents	2
Purpose	3
Location of Project	3
Surveyor's Report	4
Project Datum's	4
Leveling and GPS Methods	4
Equipment used	4
Vertical Control Points	5 & 6
Benchmarks summary	5 & 6
Field Notes	6
Project Results	7
Surveyor's Notes	9
Surveyor's Certificate	10
SFWMD Site Form	11

SURVEYOR'S REPORT

PURPOSE

The purpose of this survey is to set an Elevation Reference Mark (Benchmark) consisting of 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-3700**.

LOCATION OF PROJECT

The United States Geological Survey's Recorder Well **G-3700** is located in Section 35, Township 56 South, Range 39 East, Miami-Dade County, Florida.



General Location (Intended Display scale is “Not to Scale”)

SURVEYOR'S REPORT

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-3700 add 1.52'**. 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 $\sqrt{\text{miles}}$) 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 Miami-Dade County Benchmark BB-7-RA, through the well site, and to the Miami-Dade County Benchmark HAF-28. The measurements were collected using a Digital Level and were hand written in Biscayne Engineering Co, Inc. Field Book 2995 pages 01-05, dated March 28, 2019, reduced and adjusted electronically. Additional data was manually recorded in the field book.

GPS METHODS

Latitude and Longitude for Benchmark G-3700 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 5625R066188.
- TOPCON DL-500 digital level Serial Number 512386 and a folding bar code rod.
- TOPCON Total Station GM-103, Serial Number ZQ000748.
- TOPCON Auto-level DL-500, Serial Number 512386.

SURVEYOR'S REPORT

VERTICAL CONTROL POINT


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

M-DC BM BB-7-RA							
25° 31' 06.13" (N)	80° 23' 47.00" (W)		8.69 ft.	(NAVD88)	2.65 m	Published	
			10.21ft.	(NGVD29)	3.11m	Published	
			<p>THE MARK IS LOCATED: SW 268 ST --- 49' NORTH OF C/L SW 127 AVE --- 66' WEST OF C/L</p> <p>PK AND BRASS WASHER IN CONC SIDEWALK IN FRONT OF TRAFFIC LT POLE.</p>				

M-DC BM HAF-28							
25° 30' 25.24" (N)	80° 23' 46.50" (W)		7.54 ft.	(NAVD88)	2.30 m	Published	
			9.06 ft.	(NGVD29)	2.76 m	Published	
			<p>THE MARK IS LOCATED: SW 280 ST --- 50' SOUTH OF EXTENDED C/L SW 127 AVE --- 50' WEST OF C/L</p> <p>CORPS OF ENGINEER BRONZE DISC IN CONC.</p>				

SURVEYOR'S REPORT

BM: G-3700 (Set as part of this survey)

25° 30' 26.07" (N)	80° 23' 48.04" (W)	8.09 ft.	(NAVD88)	2.47 m	Level run
		9.61 ft.	(NGVD29)	2.93 m	Converted
		1.52 ft.	(conversion factor)		Corpscon 6.0.1
		STATION IS A MAG NAIL AND WASHER STAMPED "BEC 0129 AND G-3700" SET IN CONCRETE SIDEWALK LOCATED: SW 280 ST --- 30' NORTH OF C/L SW 127 AVE --- 180' WEST OF C/L			

Field Book 2995, Page 3

2995-03					
O: LVNA			BEC #03-26445		
L: BALLESTADOS			S. F. W. M. D.		
A: LEAL			MIAMI DADE (26 WELLS)		
B: 28-19			LOCATION & ELEVATION (NAVD-88)		
S: 2250-11			OF USGS WELL G-3700		
TOPCON DL-502					
STA	BS	DISTANCE	HI	FS	DISTANCE
IP N. 6			12.613	4.518	257.30
SHAKE	4.461	264.20	12.496		
IP N. 7					
SHAKE	4.301	280.2			
CP N. 2					
SHAKE	5.293	63.40	12.886		
BM G-3700				4.796	85.10
SHAKE	4.761	96.10	12.851		
BM HAF-23				5.314	102.00

ELEVATION	BM	REMARKS
8.035		SET CUT NAIL 1/2" EAST OF THE WEST EP OF THE SW 127 AVE, 1.514.60' FROM TP NO. 5
7.676		SET CUT NAIL 1/2" ON WEST EP OF THE SW 127 AVE, ±
7.593		SET M.N.L.W. BEC 0129 G-3700, SET ON CONC SIDEWALK, IN THE NW CORNER OF THE INTERSECTION SW 127 AVE AND SW 280 ST.
8.090		SET M.N.L.W. BEC 0129 G-3700, ON CONC SIDEWALK (LAT = 25°30'24.04", LONG = 80°23'48.036")
7.537	7.54	SW 280 ST ... 50' SOUTH OF EXTENDED C/L SW 127 AV ... 50' WEST OF C/L CORPS OF ENGINEER BRONZE DIX IN CONC MON. EL = 9.06' NAVD-29, EL = 7.54' NAVD-88 (1.52' TO NGVD-29)
ERROR = -0.003'		

**BM G-3700
ELEVATION: 8.09'
(NAVD88)**

PROJECT RESULTS

Overall Site



Benchmark "G-3700"
El. 8.09' (NAVD88)

G-3700 Well Site
Latitude: 25° 30' 26.07"
Longitude: 80° 23' 48.11"
Reference elevation
7.83' (NAVD88)

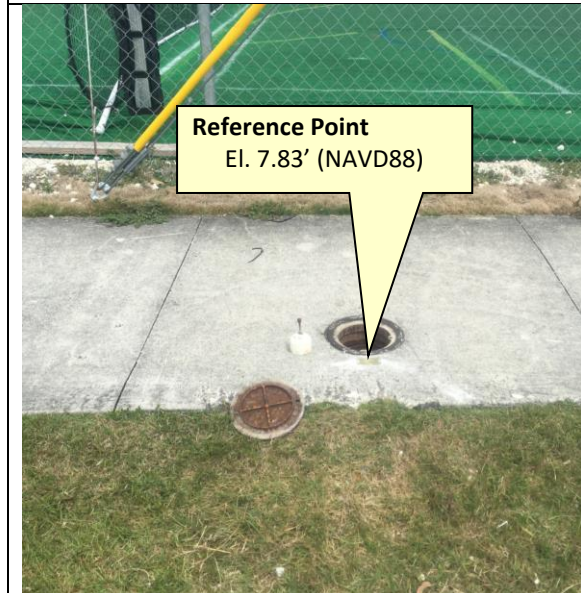
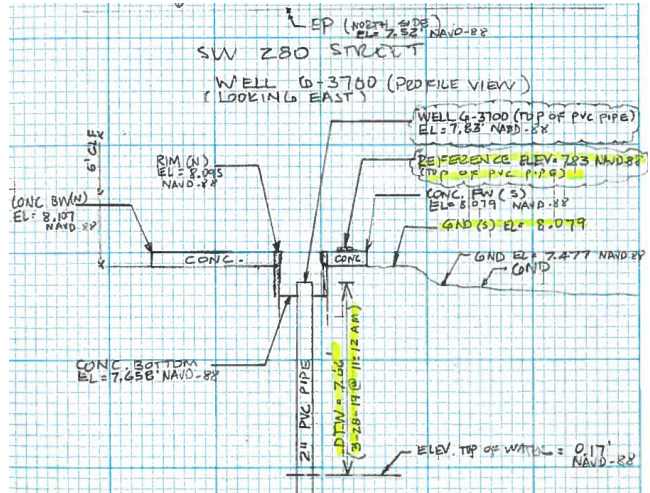
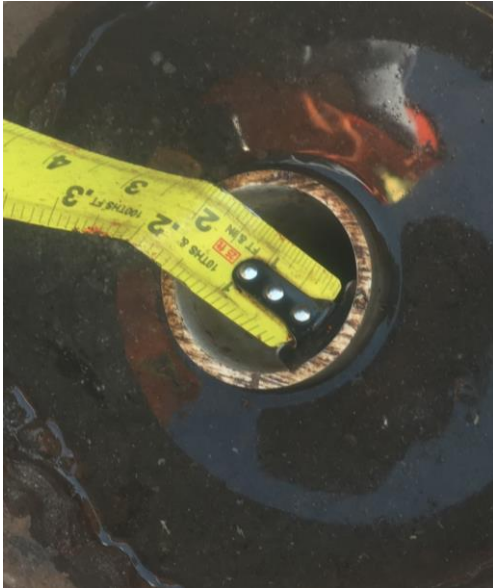
Looking Easterly (Oblique not to scale)

SURVEYOR'S REPORT

Tabular Form

Reference and Ground Elevations: (NAVD88)			
Well	Ground Elevation	Reference Elevation	Comments
G-3700	7.94 ft.	7.83 ft.	Top of 2" PVC pipe
Offset to NGVD29: +1.52' (See Project Vertical Datum Notes in Page: 4)			

Well diameter	Casing material	DTW
2"	Metal	7.66 ft. (03/28/19 at 11:12AM)



Side view (Oblique Not to scale)

Top view (Not to scale)

SURVEYOR'S REPORT

Source & Site Benchmark	NAVD88	NGVD29 (Published)	NGVD29 (Corpscon)
BB-7-RA (M-DC)	8.69 ft. (Published)	10.21 ft.	
HAF-28 (M-DC)	7.54 ft. (Published)	9.06 ft.	
G-3700 (SFWMD)	8.09 ft. (Measured)		9.61 ft. (Converted)

Surveyors' 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 1.52 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: March 28, 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: 2995 pages 01-05

Abbreviations:

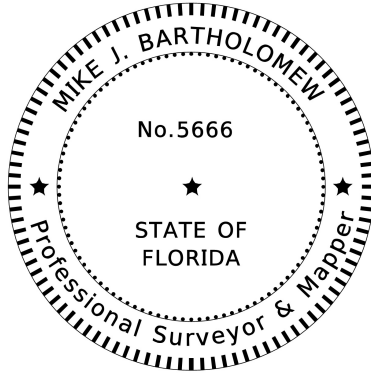
- EI.** - Elevation
- DTW** - Distance to the water table inside the well
- M-DC** - Miami-Dade County
- NAVD88** - North American Vertical Datum of 1988
- NGVD29** - National Geodetic Vertical Datum of 1929
- NGS** - National Geodetic Survey
- PSM** - Professional Surveyor & Mapper
- PID** - Permanent Identifiers
- SFWMD** - South Florida Water Management District
- USGS** - United States Geological Survey
- BEC** - Biscayne Engineering Company, Inc.

SURVEYOR'S REPORT

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.

Last date of Survey
March 28, 2019



Mike Bartholomew, PSM, President
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



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/18

DESIGNATION: G-3700		PROJECT: G-3700	
ESTABLISHED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT		SURVEYOR: Mike Bartholomew	
RECOVERED BY: BISCAYNE ENGINEERING CO.		DATE: 03/28/19	
GEOGRAPHIC POSITION			
SECTION 35	TOWNSHIP 56 SOUTH	RANGE 39 EAST	
COUNTY: MIAMI-DADE	NAME OF QUADRANGLE: GOULDS 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= 427051.95	(E) X= 855149.89	NAVD 88 EL. 8.09' NGVD 29 EL. 9.61'
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 ° 30' 26.07" (N)		LONGITUDE: 80 ° 23' 48.04" (W) (Source) GPS RTK (FPRN)	
RECOVERY DATA			
Stamping: G-3700 BEC 0129			
To Reach: STATION IS A MAG NAIL AND WASHER STAMPED "BEC 0129 AND G-3700" SET IN CONCRETE SIDEWALK. LOCATED: SW 280 ST --- 30' NORTH OF C/L, SW 127 AVE --- 180' WEST OF C/L			
NOTABLE LAND MARKS: AIRPORT PLAZA			
MDC-SOURCE BENCHMARKS: BB-7-RA, HAF-28			
FIELD BOOK PAGE <u>2995-3</u>			

PICTURES

Aerial Overall Site



NOT TO SCALE (Google Earth product)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/18

Overall Site



Benchmark "G-3700"
El. 8.09' (NAVD88)

G-3700 Well Site
Latitude: 25° 30' 26.07"
Longitude: 80° 23' 48.11"
Reference elevation
7.83' (NAVD88)

Looking Easterly (Oblique not to scale)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

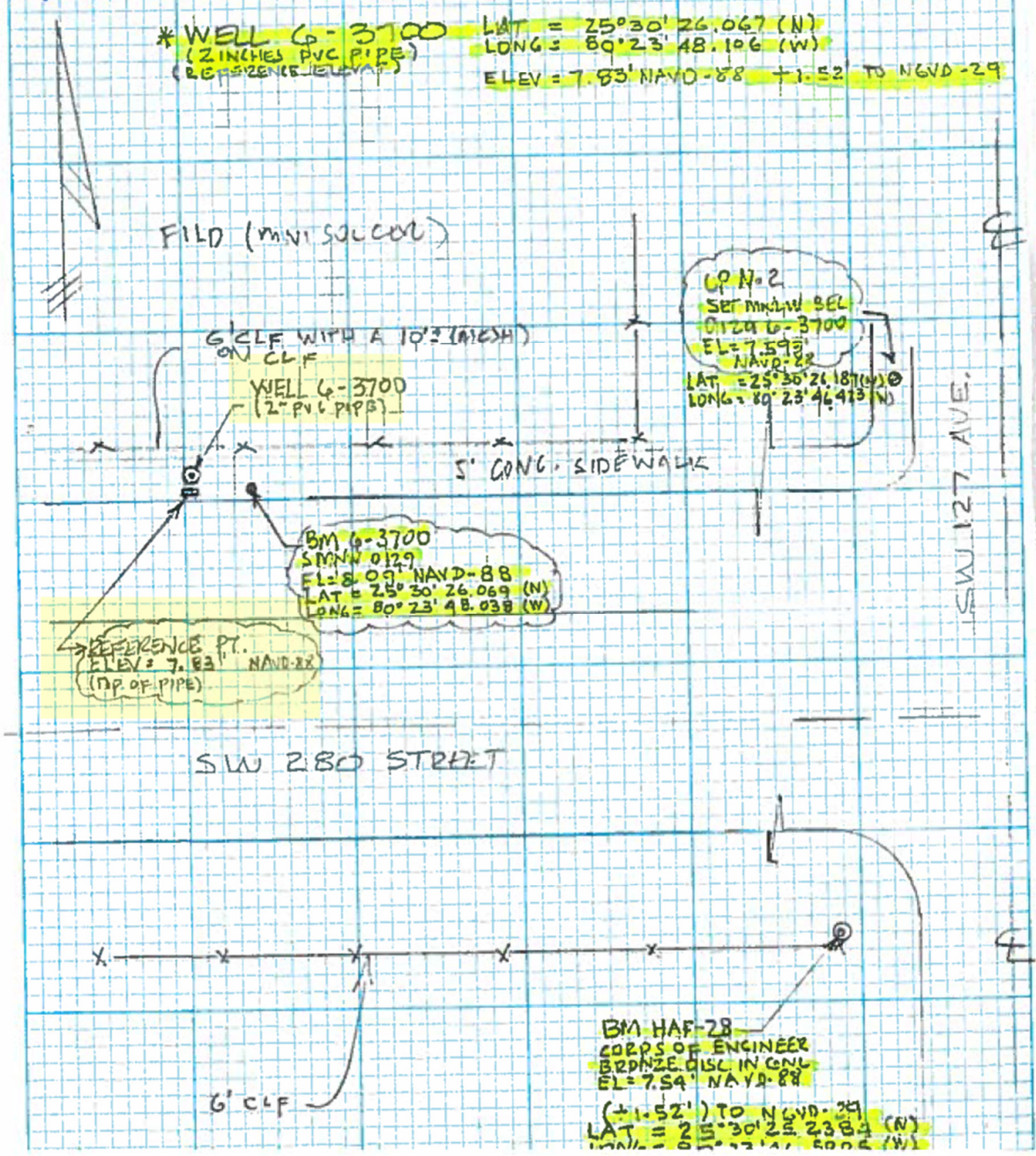
Rev. 4/18

SKETCH

O. LUNA
 L. BALLESTERZO
 A. LEAL
 3/27/19
 GPS TRIMBLE R-8-S

BEZ # 0386435
 S. F. W. M. D.
 MIAMI DADE (26 WELLS)
 LOCATION & ELEVATIONS (NAVD-88)
 OF USGS WELL G-3700

* WELL G-3700 (2 INCHES PVC PIPE) (REFERENCE ELEVATION)
 LAT = 25°30'26.067 (N)
 LONG = 80°23'48.106 (W)
 ELEV = 7.83' NAVD-88 + 1.52' TO NGVD-29



Office

Project

16 May 2019

INPUT

Geographic, NAD83
Vertical - NAVD88, U.S. Feet

OUTPUT

Geographic, NAD83
Vertical - NGVD29 (Vertcon94), U.S. Feet

BM G3700

1/1

Latitude: 25 30 26.07
Longitude: 80 23 48.04
Elevation/Z: 8.09

Latitude: 25 30 26.07000
Longitude: 80 23 48.04000
Elevation/Z: 9.612

Remark:

Office

Project

16 May 2019

INPUT

Geographic, NAD83
Vertical - NAVD88, U.S. Feet

OUTPUT

Geographic, NAD83
Vertical - NGVD29 (Vertcon94), U.S. Feet

WELL G3700

1/1

Latitude: 25 30 26.07
Longitude: 80 23 48.11
Elevation/Z: 7.83

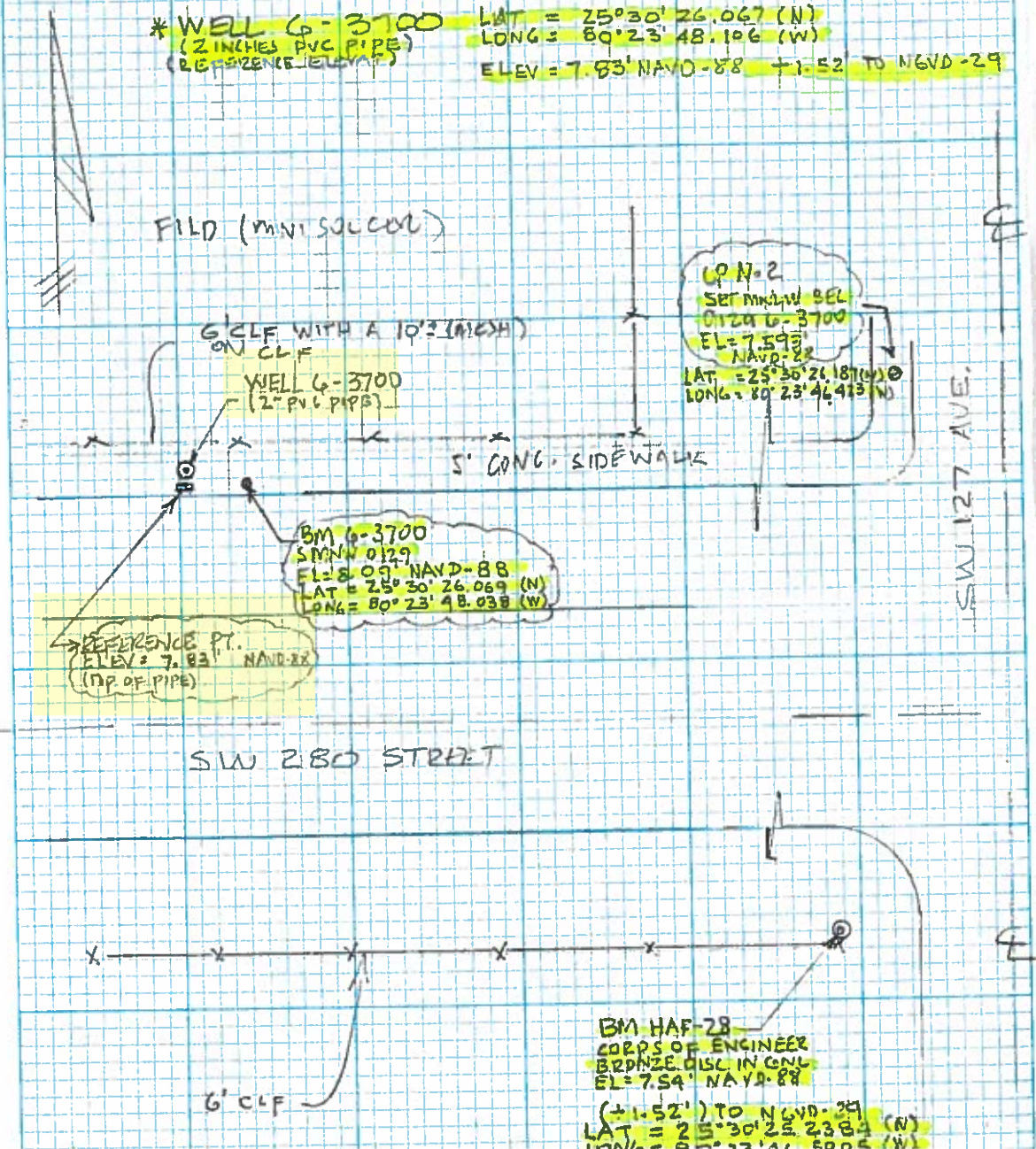
Latitude: 25 30 26.07000
Longitude: 80 23 48.11000
Elevation/Z: 9.352

Remark:

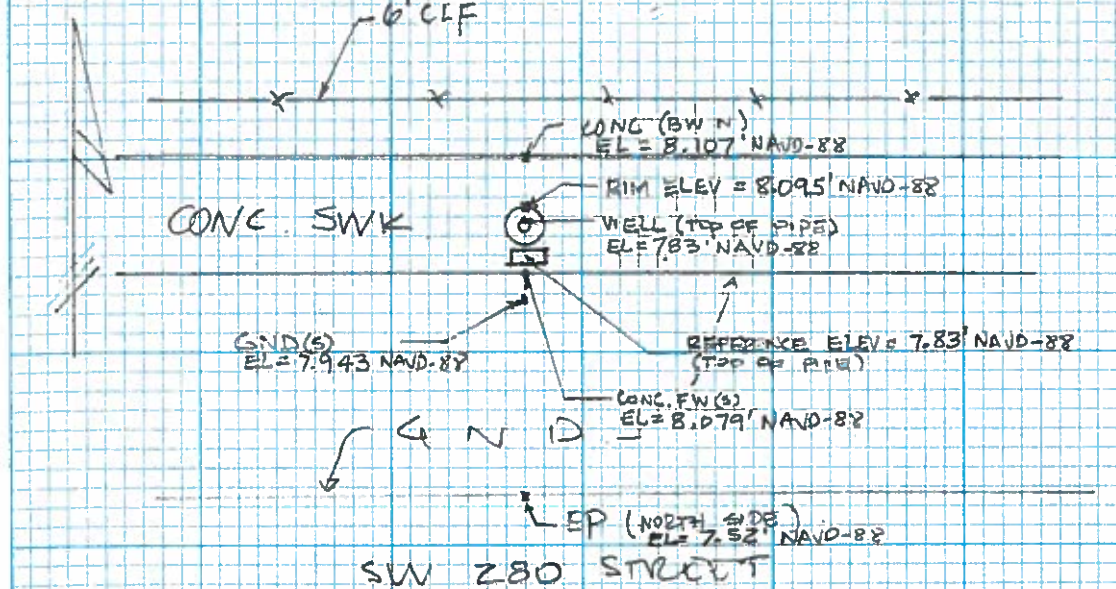
O. LONG
 L. BALLESTEROS
 A. LEAL
 3/27/19
 GPS TRIMBLE R-8-S

BEL # 0386445
 S. F. W. M. D.
 MIAMI DADE (2G WELLS)
 LOCATION & ELEVATIONS (NAVD-88)
 OF USGS WELL G-3700

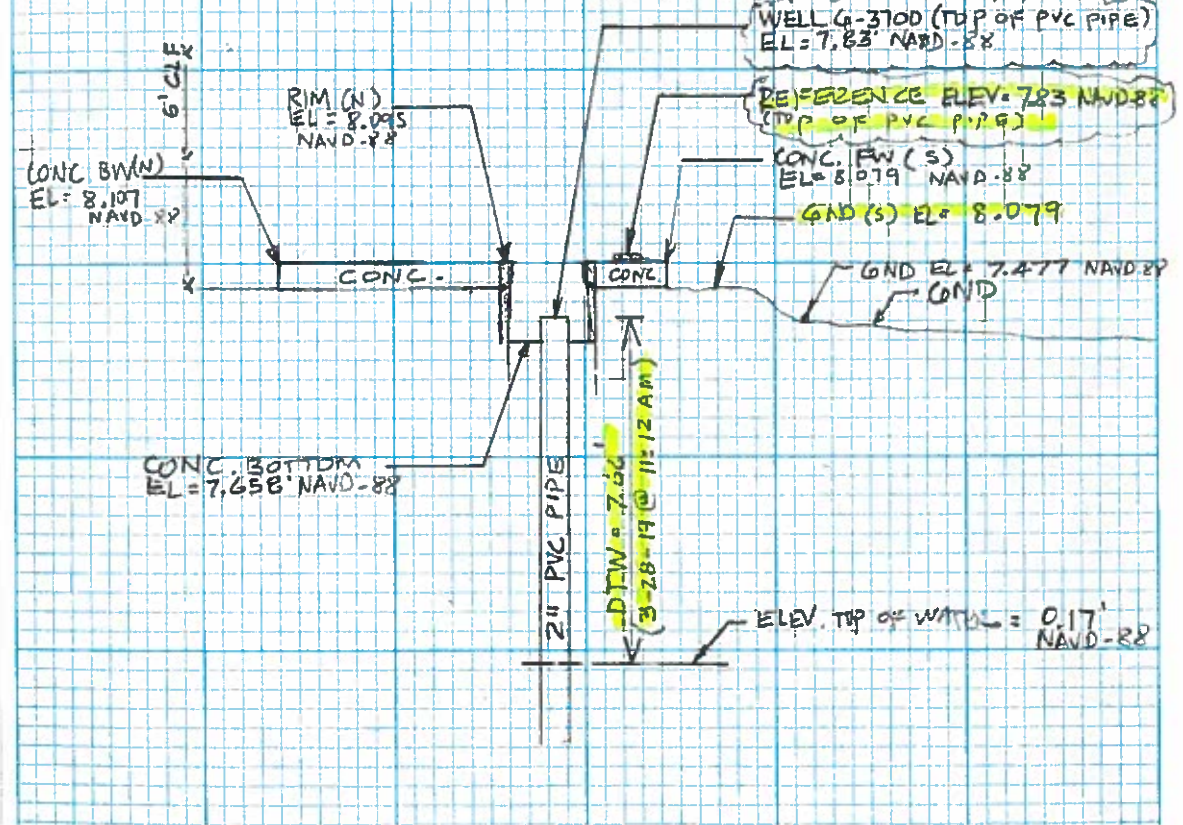
* WELL G-3700 (2 INCHES PVC PIPE) (REFERENCE ELEVATION)
 LAT = 25°30'26.067 (N)
 LONG = 80°23'48.106 (W)
 ELEV = 7.83' NAVD-88 +1.52 TO NAVD-29



WELL G-3700 (PLAN VIEW) 2995-01



WELL G-3700 (PROFILE VIEW) (LOOKING EAST)



O. LUNA
 L. BALLESTEROS
 A. LEAL
 3/28/2019
 85445 011

BEL # 03-86445
 S. F. W. M. D.
 MIAMI DADE (26 WELLS)
 LOCATION AND ELEVATION (NAVD-88)
 OR USGS WELL G-3700

TOPCON DL-502 STA	BS	DISTANCE	HI	FS	DISTANCE
BB-7	4.275	243.90'	12.965		
TP N. 1				4.682	244.10
SHAKE	4.861	253.40	13.144		
TP N. 2				3.874	253.50
SHAKE	3.995	256.70	3.265		
TP N. 3				5.432	256.90
SHAKE	4.266 4.266	254.50	12.079		
TP N. 4				5.201	254.90
SHAKE	5.184	257.00	12.062		
TP N. 5				5.264	252.20
SHAKE	5.815	257.30	12.613		

NAVD88

2995-02

ELEVATION	BM ELEV.	DESCRIPTION
	8.69'	SW 265 ST. --- 49' NORTH OF C/L SW 127 AV --- 66' WEST OF C/L END PK AND BLAS MARKER IN CONC. SIDEWALK IN FRONT OF TRAFFIC POLICE. EL = 10.21' NAVD-88, ELEV = 8.69' NAVD-88 (+1.52)
	8.283	SET CUT N L & TT, ± 1' EAST OF THE WEST ED OF SW 127 AVE, ± 488' SOUTH OF BM BB-7-RA
	9.27	SET CUT N L & TT, ± 0.50' EAST OF THE WEST EP OF SW 127 AVE, ± 506.90' SOUTH FROM TP N. 1
	7.833	SET CUT N L & TT, ± 1' EAST OF THE WEST EP OF THE SW 127 AVE, ± 513.6' SOUTH FROM TP N. 2
	6.878	SET CUT N L & TT, ± 1' EAST OF THE WEST EP OF THE SW 127 AVE, ± 508.40' FROM TP N. 3
	6.198	SET CUT N L & TT, ± 2' EAST OF THE WEST EP OF THE SW 127 AVE, ± 509.20' FROM TP N. 4

O. LVNA
 L BALLESTARDS
 A. LEAL
 3-28-19
 86445011
 TOPCON DL-502

BEC #03-86445
 S. F. W. M. D.
 MIAMI DADE (26 WELLS)
 LOCATION & ELEVATION (NAVD-88)
 OF USGS WELL G-3700

STA	BS	DISTANCE	HI	FS	DISTANCE
-TP N. 6			12.613	4.578	257.30
SHAKE	4.461	264.20	12.496		
TP N. 7				4.820	264.60
SHAKE	4.301	280.20	11.977		
CP No. 2				4.384	207.100
SHAKE	5.293	63.40	12.886		
BM G-3700				4.796	85.10
SHAKE	4.761	96.10	12.851		
BM HAF-29 NAVD88				5.314	102.00

2995-03

ELEVATION	BM ELEV.	DESCRIPTION
8.035		SET CUT NLY 1/4 IT, ± 1' EAST OF THE WEST EP OF THE SW 127 AVE, ± 514.60' FROM TP N. 5
7.676		SET CUT NLY 1/4 IT, ON WEST EP OF THE SW 127 AVE, ±
7.593		SET MNLW BEC 0129 G-3700, SET ON CONC SIDEWALK, IN THE NW CORNER OF THE INTERSECTION SW 127 AVE AND SW 280 ST.
8.090		SET MNL 1/4 W BEC 0129 G-3700, ON CONC. SIDEWALK (LAT = 25°30'26.064, -80°23'48.038)
7.537	7.54	SW 280 ST --- 50' SOUTH OF EXTENDED C/L SW 127 AV --- 50' WEST OF C/L CORPS OF ENGINEER BRONZE DISC IN CONC. MON EL = 9.06' NAVD-29, EL = 7.54' NAVD-88 (1.52' TO NAVD-29)
ERROR = -0.003'		

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 L. GALLESTEROS
 A. LEAL
 3/28/19
 26445 Q111 G-3700-2A
 TOPCON DL-502

BEC #03-86445
 S. F. W. M. D.
 MIAMI DIDE (26 WELLS)
 LOCATION & ELEVATIONS (NAVD-88)
 OF USGS WELL G-3700

STA	BS	DIST	HI	FS	DIST.
HAE-28	4.446	89.50	11.986		
COND (S)				4.043	
CONC FW (S)				3.907	
CONC BW (S)				3.879	
CONC BT				4.328	
WELL G-3700				4.156	
RIM (N)				3.891	
BM G-3700				3.893	

2995-04

ELEVATION	BM ELEV.	DESCRIPTION
	7.54'	SW 280 ST... 50' SOUTH OF EUTAW RD C/L SW 127 AV... 50' WEST OF C/L CORPS. OF ENGINEERING BEONLE DUC N CONC ELEV = 7.54' NAVD-88, ELEV. 9.06 NAVD-29 (DIF. 7152')
7.943		
8.079		
8.107		
7.658		CONC. BT (INSIDE THE CASE)
7.83'		ON TOP OF 2 INCHES PVC PIPE (REFERENCE ELEVATIONS TOP OF CASE (NOEHRIM))
8.095		
8.093	8.090	SMALL W. BEC 0129 G-3700, EL = 8.09 NAVD-88 SEE PAGE N. 03 + 1.52 TO NAVD-29

O. LUNA

L. BALLESTEROS

A. LEAL

3/28/19

86445111

TPGN 210000748

SEC # 23-86445

S. F.W. M.D.

MIAMI DADE (26-WEEL)

LOCATION & ELEVATION (NAVD-88)

OF USGS WELL 4-3700

INST @ BM 4-3700 (322-345)

HT = 5.13

STA	TH	HORIZ ±	VERT ±	SLOPE DIST	DESC.
322 = Z	4.73	00°00'00"	90°20'31"	148.38	MNW 079
323	4.73	35°22'28"	90°19'57"	163.94	BM HAE-28

2993.05

Survey Control Points

Horizontal



BB- 7-RA - NEW

Name: BB- 7-RA

Elev(NGVD29): 10.21

Elev(NAVD88): 8.69

Northing: 431,096.58

Easting: 855,226.35

Location1: SW 268 ST --- 49' NORTH OF C/L

Location2: SW 127 AVE --- 66' WEST OF C/L

Location3:

Description1: PK AND BRASS WASHER IN CONC SIDEWALK IN FRONT OF TRAFFIC LT POLE.

Description2:

Field Book: 608-30

Zones: VII

Circuit: 494

Set Date: 03-21-2005

Locator: 6915 S

Last Check: 07-19-2010

Adjustment:

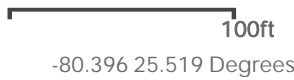
Adjustment-Date: 03-09-2011

Status: NEW

12801

SW 268TH ST

SW 268TH S



Survey Control Points

Horizontal



HAF-28 - EXISTING



Public Works Survey Control Point

Welcome to Miami-Dade County Survey Control Points.

Public Works Survey Control Points is an Web Application that displays the Horizontal and Vertical Control Points layers as well as street maintenance layer and Municipality for Miami-Dade County. It is being used by Public Works Department in Miami-Dade County.

Name: HAF-28

Elev(NGVD29): 9.06
 Elev(NAVD88): 7.54
 Northing: 426,968.61
 Easting: 855,290.67

Location1: SW 280 ST --- 50' SOUTH OF EXTENDED C/L

Location2: SW 127 AVE --- 50' WEST OF CA

Location3:

Description1: CORPS OF ENGINEER BRONZE DISC IN CONC

Description2:

Field Book:

Zones: VII

Circuit: 530

Set Date: 12701

Locator: 7910 CALDIN DR

Last Check: 12-02-2009

Adjustment:

Adjustment-Date: 03-09-2011

Status: EXISTING

The information available in this search has been assembled for the use of Miami-Dade County Public Works for the design and development of Public Works projects. No degree or order of accuracy has been assigned to data in this package unless specifically stated.

Although this package has been prepared from the best available information, Miami-Dade County assumes no responsibility for the accuracy or completeness of the information or any errors or omission and makes no warranties, expressed or implied, concerning accuracy, completeness, reliability or suitability of this data.

This data should not be relied upon as the sole basis for solving a problem whose incorrect solution could result in injury to person or property. Elevations must be verified consistent with procedures established by Chapter 472 Florida Statutes "Land Surveying and Mapping" and the Florida Administrative Code Chapter 61G17-6 "Minimum Technical Standards".

Some of the GIS datasets presented in this website are available for free download. Please visit our [Open Data](#) website for more information.

For questions, comments or to report a problem with this website, please email [Miami-Dade County GIS](#).

[Zoom to](#)

