



SURVEYOR'S REPORT

**Specific Purpose Survey of the
United States Geological Survey
Recorder Well S-196A
in
Miami-Dade County, Florida**

Prepared for:

South Florida Water Management District

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State of Florida

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529 West Flagler Street, Miami, FL. 33130
Tel (305) 324-7671

Field Date: March 30, 2019
Report Date: April , 2019
BEC Order #: 03-86445

INSPIRED BEYOND MEASURE • SINCE 1898

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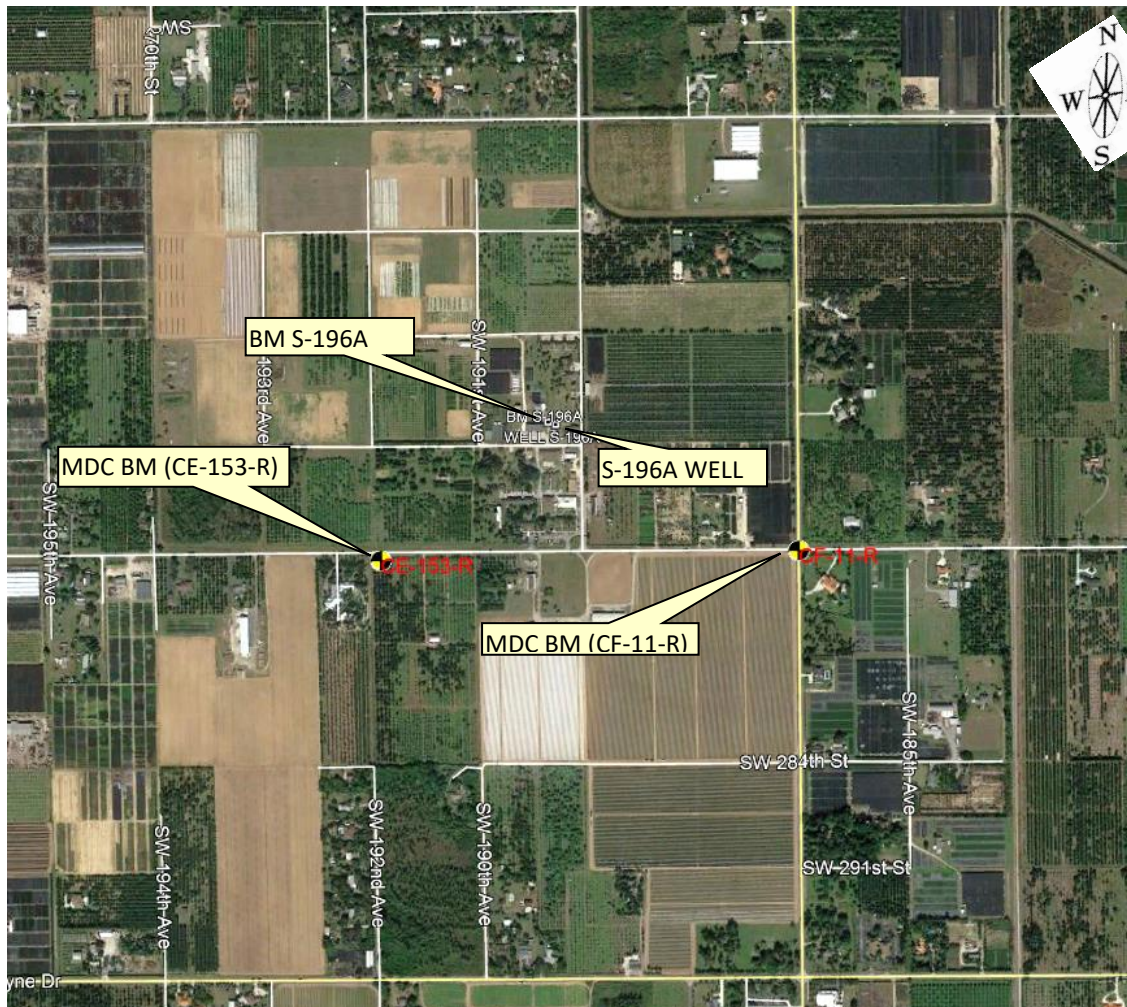
SURVEYOR'S REPORT

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 **S-196A**.

LOCATION OF PROJECT

The United States Geological Survey's Recorder Well **S-196A** is located in Section 35, Township 56 South, Range 38 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 **S-196A 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 CF-11-R, through the well site, and to the Miami-Dade County Benchmark CE-153-R. The measurements were collected using a Digital Level and were hand written in Biscayne Engineering Co, Inc. Field Book 2995 Pages 11-15, dated March 30, 2019 reduced and adjusted electronically. Additional data was manually recorded in the field book.

GPS METHODS

Latitude and Longitude for Benchmark S-196A were established by observing a 3-minute session of GPS data on March 30, 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.

SURVEYOR'S REPORT


VERTICAL CONTROL POINT

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

M-DC CF-11-R						
25° 30' 22.57" (N)	80° 29' 38.34" (W)		9.10 ft.	(NAVD88)	2.77 m	Published
			10.61 ft.	(NGVD29)	3.23 m	Published
			THE MARK IS LOCATED: SW 280 ST --- ON C/L SW 187 AVE --- ON C/L DADE CO. BRASS DISC IN CONC MON AND IS THE SE COR 35-56-38.			

M-DC CE-153-R						
25° 30' 21.93" (N)	80° 30' 06.83" (W)		8.37 ft.	(NAVD88)	2.55 m	Published
			9.89 ft.	(NGVD29)	3.01 m	Published
			THE MARK IS LOCATED: SW 280 ST --- ON C/L SW 192 AVE --- ON C/L BRASS DISC IN CONC MON AND IS THE S 1/4 COR 35-56-38.			

SURVEYOR'S REPORT

BM: S-196A (Set as part of this survey)						
25° 30' 30.47" (N)	80° 29' 55.39" (W)	Published	8.93 ft.	(NAVD88)	2.72 m	Level run
			10.45 ft.	(NGVD29)	3.19 m	
				1.52 ft. (conversion factor)		Corpscon 6.0.1.
			STATION IS A MAG NAIL AND WASHER STAMPED "BEC 0129 AND S-196A" SET IN CONCRETE SLAB BETWEEN TWO WATER VALVES. LOCATED: SW 189 TH AVE. --- 205' WEST OF CENTERLINE SW 279 TH STREET --- 150' NORTH OF CENTERLINE			

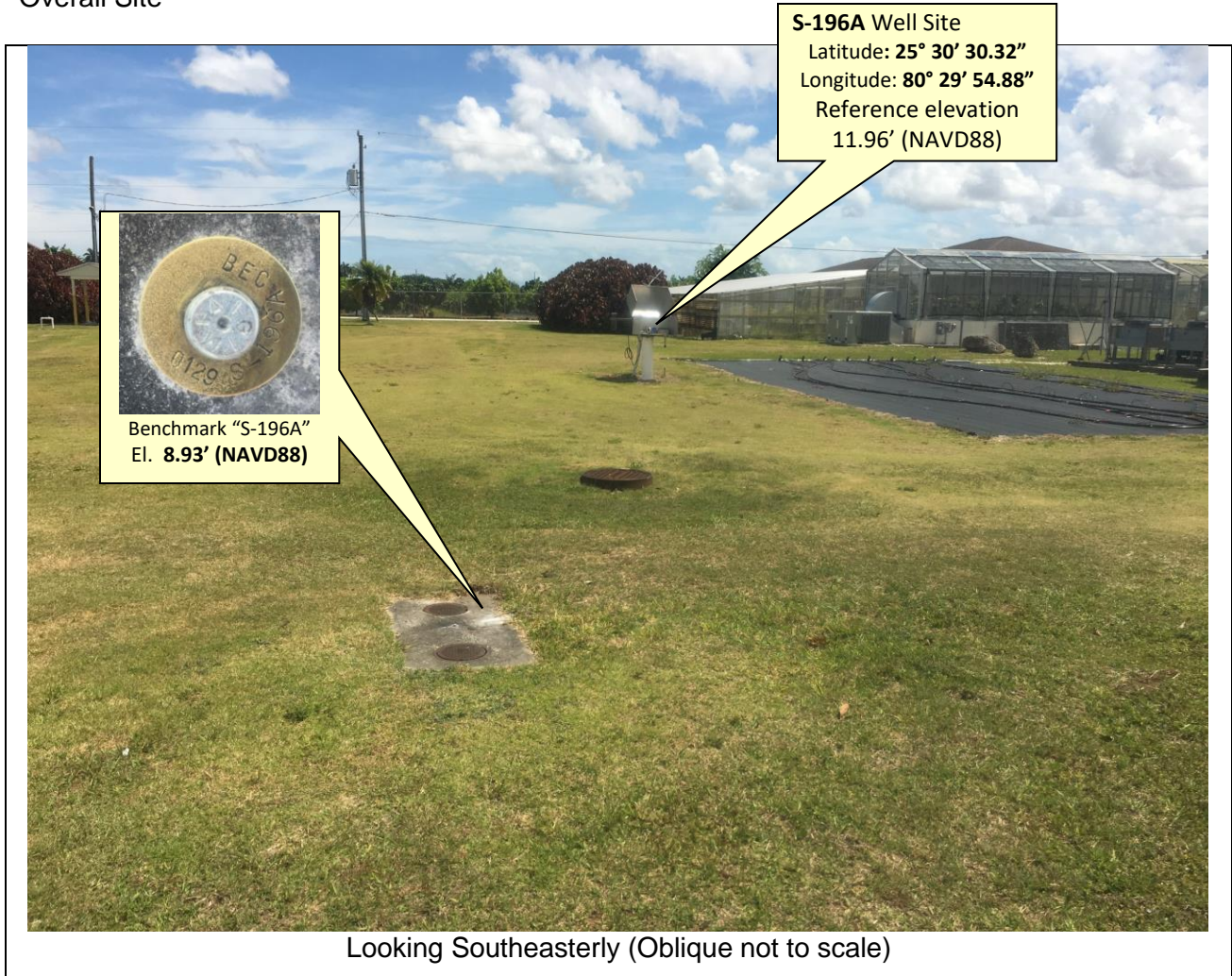
Field Book 2995, Page 12

STA	BS	DISTANCE	HI	FS	DISTANCE	ELEVATION	BM NO.	DESCRIPTION
TP N: 5	4.894	98.30	14.212				9.318	
CP# 2				4.254	69.70			
SHAVE	4.289	63.00	14.247					
EM S-196A				5.316	57.20	8.931		SET MNLW BEC 0129 S-196A
SHAVE	5.214	57.40	14.185					SET MNLW BEC 0129 S-196A, SET ON CONC. SLAB BETWEEN 2 WATER VALVES. 1' FROM WELL S-196A
FS 100	WELL							ON TOP OF 8" PVC PIPE (WELL S-196A)
101								WOOD BASE
102				5.205	44.70			GND (W)
103				5.294	47.60			GND (N)
104				5.170	44.60			GND (E)
105				5.146	43.90			GND (S)
106				5.206	46.10			FIND ALUMINUM DISK IN CONC.

**BM S-196A
ELEVATION: 8.93'
(NAVD88)**

PROJECT RESULTS

Overall Site

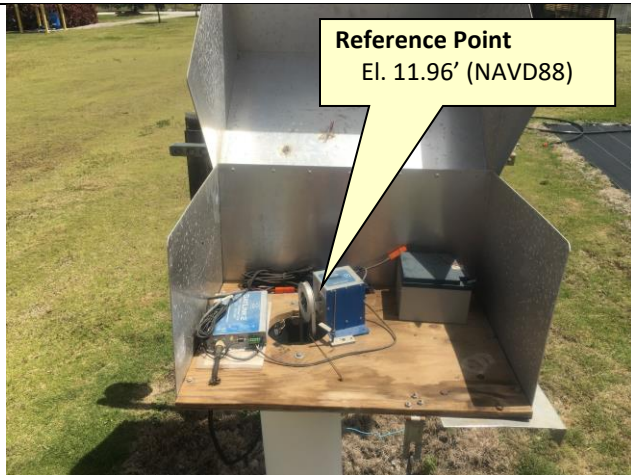
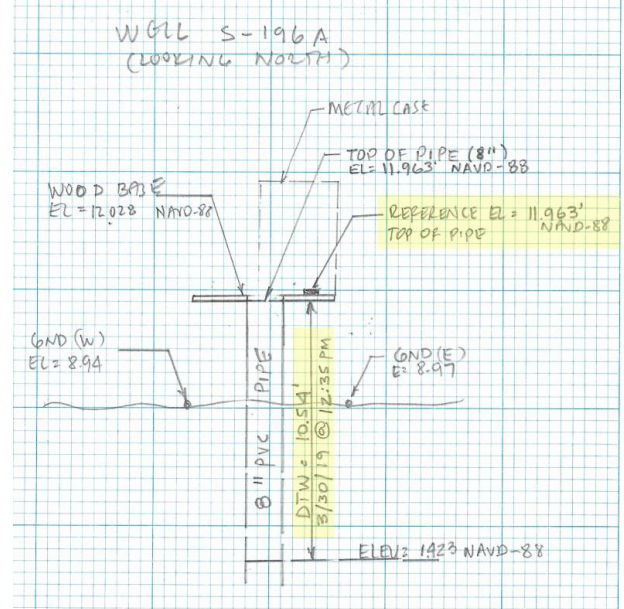


SURVEYOR'S REPORT

Tabular Form

Reference and Ground Elevations: (NAVD 88)			
Well	Ground Elevation	Reference Elevation	Comments
S-196A	8.94 ft.	11.96 ft.	Top of 8" PVC Pipe.
Offset to NGVD29: +1.52' (See Project Vertical Datum Notes in Page: 4)			

Well diameter	Casing material	DTW
8"	Metal	10.54 ft. (3/30/19 at 12:35 pm)



Side view (Oblique Not to scale)



Top view (Not to scale)

SURVEYOR'S REPORT

Source & Site Benchmark	NAVD88	NGVD29 (Published)	NGVD29 (Corpscon)
CF-11-R (M-DC)	9.10 ft. (Published)	10.62 ft	
CE-153-R (M-DC)	8.37 ft. (Published)	9.89 ft.	
S-196A (SFWMD)	8.93 ft. (Measured)		10.45 ft. (Converted)
RM-1	8.842 ft. (Measured)		
RM-2	13.049 ft. (Measured)		
RM-3	9.824 ft. (Measured)		

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 1.52 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 30, 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 11-15

SURVEYOR'S REPORT

Abbreviations:

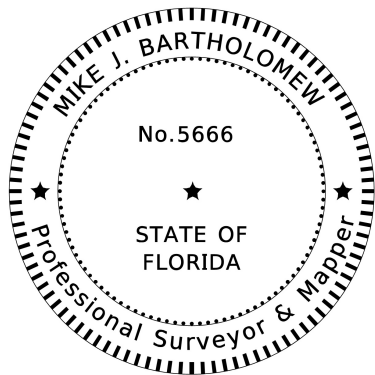
- EI.** - Elevation
- DTW** - Distance to the water table inside the well
- M-DC** - Miami-Dade County
- NAVD88** - North American Vertical Datum of 1988
- NGVD29** - National Geodetic Vertical Datum of 1929
- NGS** - National Geodetic Survey
- PSM** - Professional Surveyor & Mapper
- PID** - Permanent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

SURVEYOR'S 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 30, 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: S-196A	PROJECT: S-196A
ESTABLISHED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT	SURVEYOR: Mike Bartholomew
RECOVERED BY: BISCAYNE ENGINEERING CO.	DATE: 03/30/19

GEOGRAPHIC POSITION

SECTION 35	TOWNSHIP 56 SOUTH	RANGE 38 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= 427356.17	(E) X= 821492.92	NAVD 88 EL. 8.93' NGVD 29 EL. 10.45'
------------------------	------------------	------------------	---

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' 30.47" (N)** LONGITUDE: **80 ° 29' 55.39" (W)** (Source) GPS RTK (FPRN)

RECOVERY DATA

Stamping: S-196A BEC 0129
 To Reach: STATION IS A MAG NAIL AND WASHER STAMPED "BEC 0129 AND S-196A" SET IN CONCRETE SLAB BETWEEN TWO WATER VALVES. LOCATED: SW 189TH AVE. --- 205' WEST OF CENTERLINE, SW 279TH STREET -- 150' NORTH OF CENTERLINE
 NOTABLE LAND MARKS: UF/IFAS TROPICAL RESEARCH AND EDUCATION CENTER
 MDC-SOURCE BENCHMARK: CF-11-R, CE-153-R
 FIELD BOOK PAGE 2995-12

PICTURES

Aerial Overall Site

Benchmark "S-196A"
El. 8.93' (NAVD88)

S-196A Well Site
Latitude: 25° 30' 30.32"
Longitude: 80° 29' 54.88"

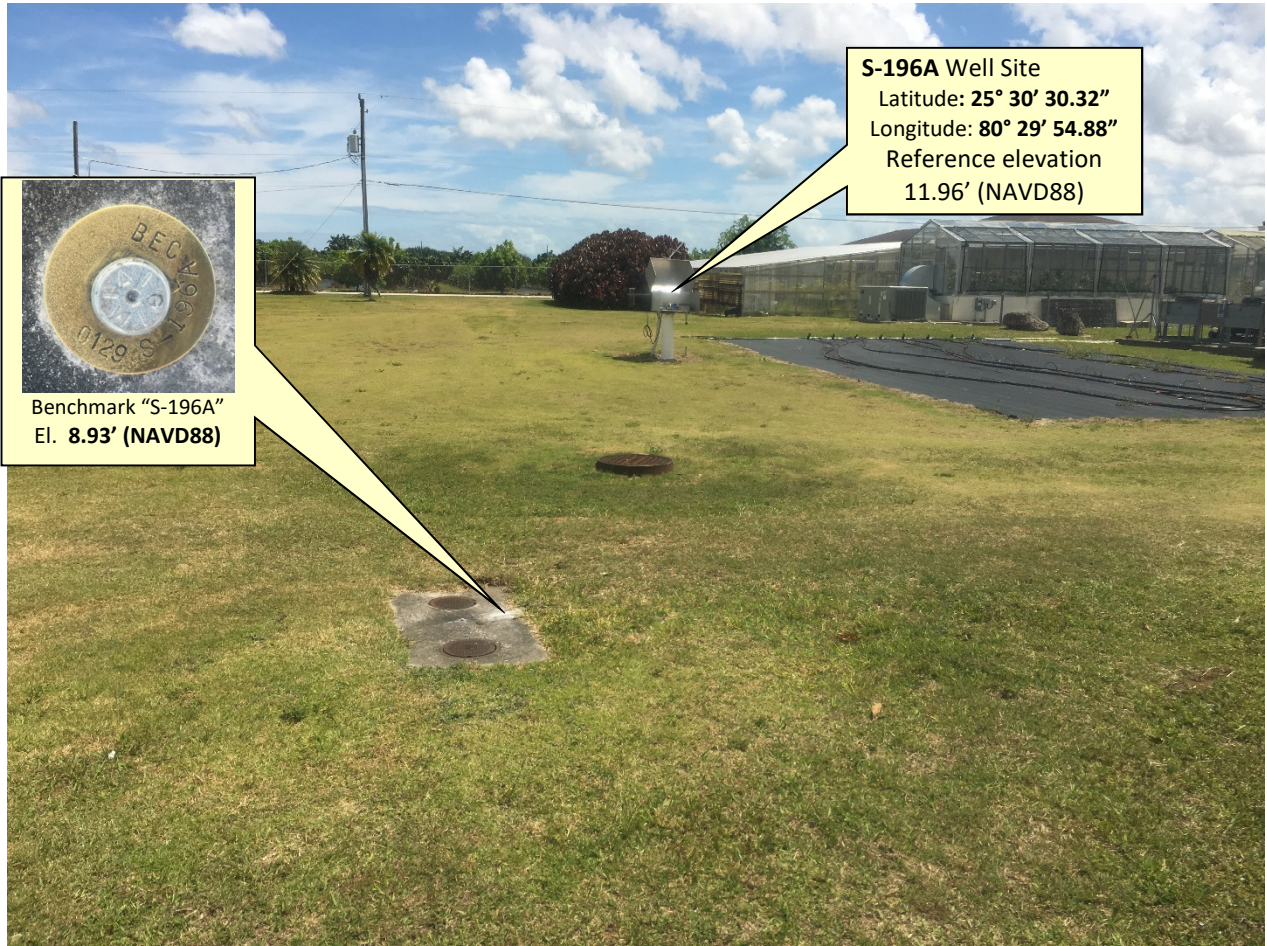
NOT TO SCALE (Google Earth product)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/18

Overall Site



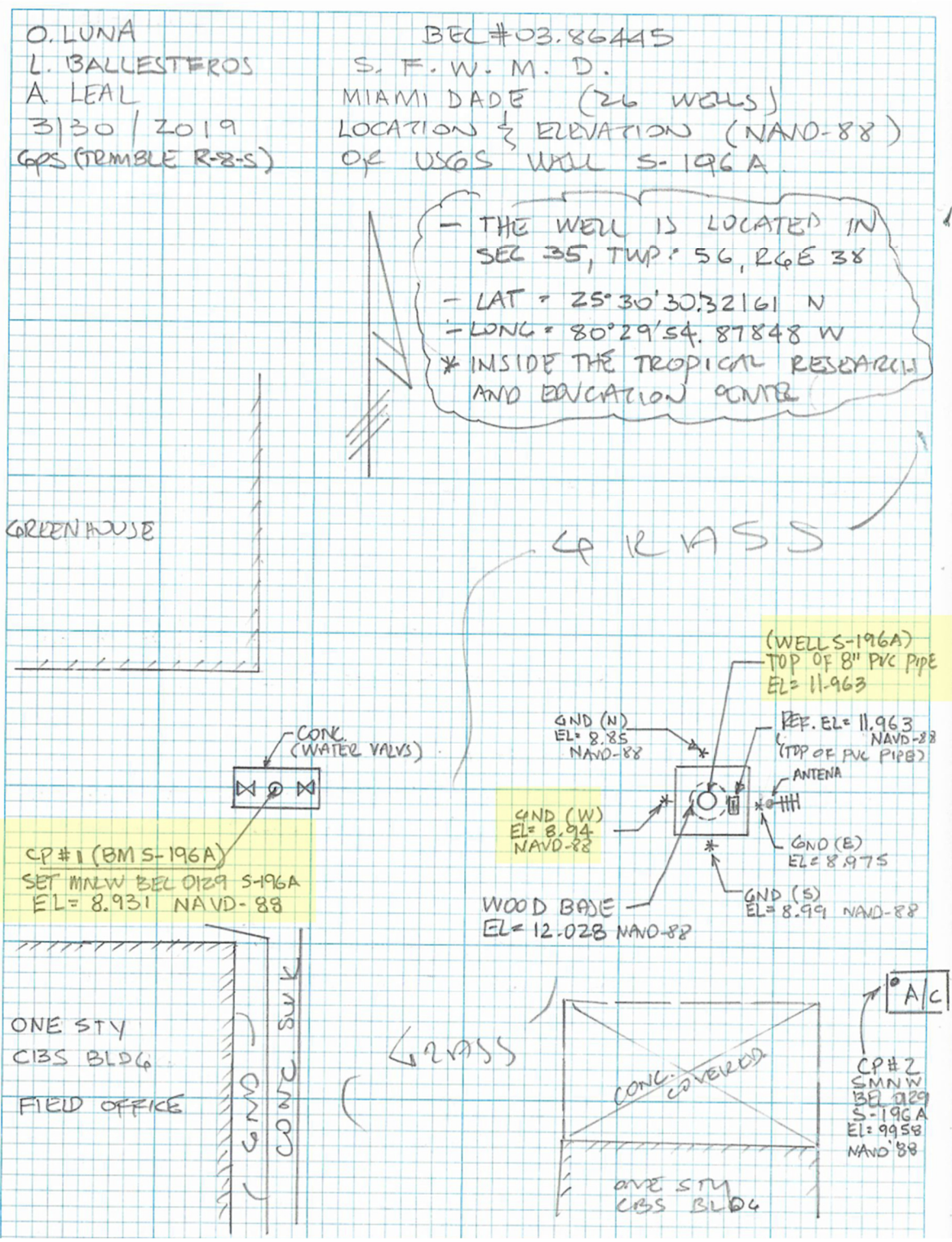
Looking Southeasterly (Oblique not to scale)



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/18

SKETCH



Office

Project

20 May 2019

INPUT

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

OUTPUT

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

BM S-196A

1/1

Latitude: 25 30 30.47
Longitude: 80 29 55.39
Elevation/Z: 8.93

Latitude: 25 30 30.47000
Longitude: 80 29 55.39000
Elevation/Z: 10.446

Remark:

Office

Project

20 May 2019

INPUT

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

OUTPUT

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

WELL S-196A

1/1

Latitude: 25 30 30.32
Longitude: 80 29 54.88
Elevation/Z: 11.96

Latitude: 25 30 30.32000
Longitude: 80 29 54.88000
Elevation/Z: 13.476

Remark:

O. LUNA
 L. BALLESTEROS
 A. LEAL
 3/30/19
 86445013
 TOPCON DL-502

BEC #03-86445
 S. F. W. M. D.
 MIAMI DADE (26 WELLS)
 LOCATION AND ELEVATION (NAVD-88)
 OF USGS WELL S-196A

STA	BS	DISTANCE	HI	FS	DISTANCE
CF-11-R	4.681	199.60	13.781		
TP No. 1				4.387	201.40
SHAKE	4.548	205.50	13.942		
TP No. 2				5.237	205.70
SHAKE	5.315	266.50	14.02		
TP No. 3				4.742	267.90
SHAKE	4.681	187.60	13.959		
TP No. 4				5.008	186.90
SHAKE	5.206	279.40	14.157		
TP No. 5				4.839	198.20

2995-11

ELEVATION	BM ELEV.	DESCRIPTION
9.10'(88)		SW 280 ST --- ON C/L SW 187 AV --- ON C/L DADE COUNTY BRASS DISC IN CONC. MONUMENT, IS THE SW CORNER OF SECT. 35-56-38 ELEV=10.62' NAVD-29, ELEV=9.10' NAVD-88 (DIFF +1.52')
9.394		SET CUT NL $\frac{1}{2}$ TT, $\pm 1'$ SOUTH OF THE NORTH EP OF THE SW 280 ST, $\pm 401'$ WEST OF BM CF-11-R
8.705		SET CUT NL $\frac{1}{2}$ TT
9.278		END CUT NL DIS, LOCATED IN THE C. OF THE SW 280 ST, FRONT MAIN ENTRANCE TO TROPICAL RESEARCH AND EDUCATION CENTER
8.951		SET CUT NL $\frac{1}{2}$ TT, $\pm 2.70'$ WEST OF A 6' CLF. AND $\pm 374.50'$ NORTH FROM TP No. 3
9.318		ON NORTH RIM OF A MHS (X-MARK) 28' \pm SW

O. LUNA
 L. BALLESTEROS
 A. LEAL
 3/30/19
 864450113

BEC # 03-86445
 S. F. W. M-D.
 MIAMI DADE (26 WELLS)
 LOCATION & ELEVATION (NAVD-88)
 OF USGS WELL S-196A

STA	BS	DISTANCE	HI	FS	DISTANCE
TP N. S	4.894	98.30	14.212		
CP# 2				4.254	65.70
SHAKE	4.289	63.00	14.247		
BM S-196A				5.316	57.20
SHAKE	5.214	57.40	14.145		
FS 100				2.182	45.60
101				2.117	45.50
102				5.205	44.70
103				5.294	47.60
104				5.170	46.60
105				5.146	43.90
106				5.306	46.10

2995-12

ELEVATION	BM ELEV.	DESCRIPTION
	9.318	
9.958		SET MNLW BEC 0129 S-196A
8.931		SET MNLW BEC 0129 S-196A, SET ON CONC. SLAB BETWEEN 2 WATER VALVES. ± FROM WQL S-196A
11.963		ON TOP OF 8" PVC PIPE (WELL S-196A)
12.028		WOOD BASE
8.940		GND (W)
8.851		GND (N)
8.975		GND (E)
8.99		GND (S)
8.839		GND ALUMINUM DISK IN CONC.

O. LUNA
 L. BALLESTEROS
 A. LEAL
 3/30/2019
 86445 0413

BEZ #03-86445
 S. F. W. M. D.
 MIAMI DADE (26 WELLS)
 LOCATION AND ELEVATION (NAVD-88)
 OF USGS WELL S-196A

STA	BS	DISTANCE	HI	FS	DISTANCE
TP N. 8				4.914	71.80
SHAKE	5.120	224.60	14.351		
TP N. 9				5.606	223.90
SHAKE	S. 391	309.60	14.136		
TP N. 10				5.307	290.00
SHAKE	4.477	230.90	13.306		
TP N. 11				4.434	230.60
SHAKE	4.543	226.90	13.415		
TP N. 12				5.103	228.50
SHAKE	4.389	64.70	12.701		
CE-153-R				4.331	67.80

2995-13

ELEVATION	BM ELEV.	DESCRIPTION
9.231		SET CURNL IN CONC MON. WELL, ± 128 SOUTH FROM BM S-196A
8.745		SET CURNL 1/4 TT
8.829		SET CURNL 1/4 TT 1'± SOUTH OF THE NORTH EP OF SW 280 ST, ± 300' FROM TP N. 3
8.872		SET CURNL 1/4 TT ± 1' SOUTH OF THE NORTH EP OF SW 280 ST, ± 461.50' FROM TP N. 10
8.312		SET CURNL 1/4 TT, ± 1' SOUTH OF THE NORTH EP OF SW 280 ST, ± 455.40' FROM TP N. 11
8.37	8.37	SW 280 ST --- ON C/L SW 192 AV --- ON C/L BRASS DISC IN CONC. MONUMENT AND IS THE S 1/4 COR 35-56-38 EL = 989 NAVD-29, 8.37 NAVD-88. (DIF = +1.52')

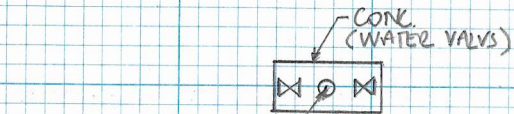
O. LUNA
 L. BALLESTEROS
 A. LEAL
 3/30/2019
 GPS (TRIMBLE R8-S)

BEL #03.86445
 S. F. W. M. D.
 MIAMI DADE (26 WELLS)
 LOCATION & ELEVATION (NAVD-88)
 OF USGS WELL S-196A

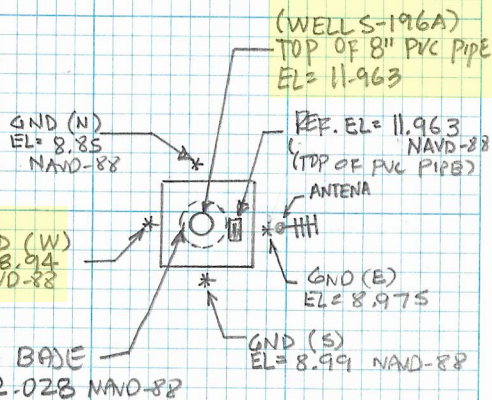
- THE WELL IS LOCATED IN
 SEC 35, TWP: 56, RGE 38
 - LAT = 25°30'30.32161 N
 - LONG = 80°29'54.87848 W
 * INSIDE THE TROPICAL RESEARCH
 AND EDUCATION CENTER

GREENHOUSE

GLASS



CP#1 (BM S-196A)
 SET MNW BEL 0129 S-196A
 EL = 8.931 NAVD-88

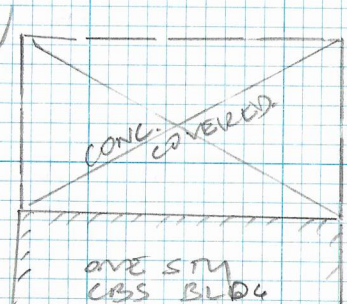
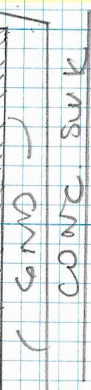


GLASS

A/C

CP#2
 SMNW
 BEL 0129
 S-196A
 EL = 9.958
 NAVD-88

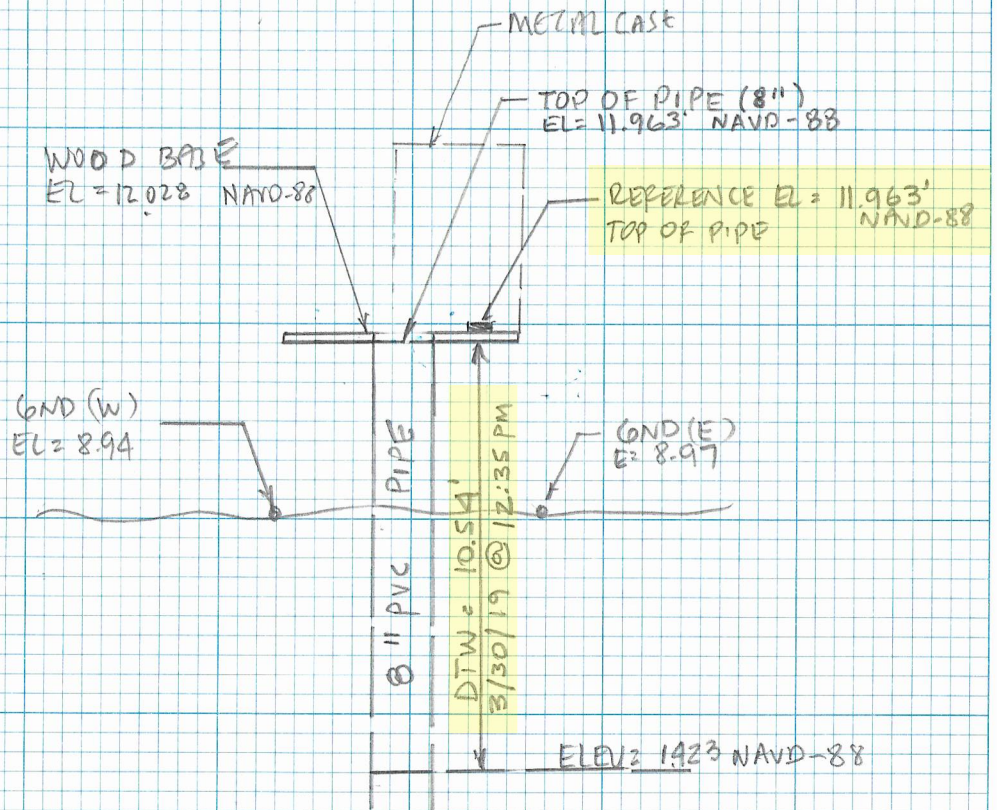
ONE STY
 CBS BLDG
 FIELD OFFICE



* LOCATIONS:

BM CF-11-R	LAT = 25°30'22.56658 (N) LONG = 80°29'38.34339 (W)
Bm CE-153-R	LAT = 25°30'21.93221 (N) LONG = 80°30'06.82628 (W)
Bm I G-196A	LAT = 25°30'30.46660 (N) LONG = 80°29'55.38909 (W)

WELL S-196A
 (LOOKING NORTH)



O. LUNA
 L. BALLESTEROS
 A. LEAL
 3/30/19
 86445L13
 TOPCON 24000748

BEC #03-86445
 S. F.W.M.D.
 MIAMI DADE (26 WELLS)
 LOCATION & ELEVATION (NAVD-88)
 OF UJGS WELL S-196A

POST @ BM S-196A (369-
 HA = 5.11

STA	TH	HORIZ & VERT &	SLOPE	OUT	DOC
369 = 2	4.73	00°00'00" 89°36'41"	96.44		MINW 0129
370	4.73	348°10'02" 90°32'59"	48.34		RND ALUM. DDC IN CONC.

Survey Control Points

Horizontal



+ Find address or place About

CE-153-R - EXISTING

Name: CE-153-R

Elev(NGVD29): 9.89
Elev(NAVD88): 8.37
Northing: 426,490.64
Easting: 820,448.33

Location1: SW 280 ST --- ON C/L

Location2: SW 192 AVE --- ON C/L

Location3:

Description1: BRASS DISC IN CONC MON AND IS THE S 1/4 COR 35-56-38.

Description2:

Field Book: 469-51

Zones: IV-B

Circuit: 508,512

Set Date:

Locator: 7810 W

Last Check: 01-18-2009

Adjustment: EL. WAS 5.57

Adjustment-Date: 03-09-2011

Status: 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.

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](#)



Survey Control Points

Horizontal



+

Find address or place

About


CF-11-R - EXISTING

Name: CF-11-R

Elev(NGVD29): 10.62
 Elev(NAVD88): 9.10
 Northing: 426,564.53
 Easting: 823,057.59

Location1: SW 280 ST --- ON C/L
Location2: SW 187 AVE --- ON C/L
Location3:
Description1: DADE CO. BRASS DISC IN CONC MON AND IS THE SE COR 35-56-38.
Description2:

Field Book: 469-41
 Zones: IV-B
 Circuit: 506,508,512
 Set Date:
 Locator: 7810
 Last Check: 01-14-2008
 Adjustment:
 Adjustment-Date: 03-09-2011
 Status: EXISTING



Public Works Survey Control Point

Welcome to Miami-Dade County Survey Control Points.

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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.

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

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