



SURVEYOR'S REPORT

**Specific Purpose Survey of the
United States Geological Survey
Recorder Well G-2904
in
Broward County, Florida**

Prepared for:

South Florida Water Management District

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State of Florida

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Field Date: September 27, 2019
Report Date: December 4, 2019
PO NO: 9500008146

SURVEYOR'S REPORT

PURPOSE

The objective of this work order is to supply NAVD 88 elevations on the site benchmark, ground elevation at the site, well monitoring point and any USGS benchmarks at the site. In addition, horizontal positions of each well and benchmark need to be provided in the North American Datum of 1983.

LOCATION OF PROJECT

The United States Geological Survey's Recorder Well **G-2904** is located in Section 17, Township 50 South, Range 42 East, Broward 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-2904 (G2904 2019)**, add 1.59'. 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

All horizontal data shall be collected in and based on the North American Datum of 1983, 2011 adjustment (NAD 83/11). Horizontal coordinate control shall be established from existing National Geodetic Survey (NGS) 2nd Order control or higher in the area by using GPS, RTK GPS, network RTK GPS, or OPUS derived solutions.

LEVELING METHODS (Site Benchmark)

The leveling for this project was performed in accordance with standard survey practice using conventional third order methods, techniques and equipment.

The allowable error (.02 $\sqrt{\text{miles}}$) on this project meets or exceeds third order closures as required by SFWMD for this project per executed SOW for 4600003706-WO03 and discussions with SFWMD.

A level loop was run from the NGS Benchmark "DALEY" (AJ8709) through "TP6" (set hub) and closed on NGS Benchmark "X 175 8696 (AJ9700). A second level loop began on "TP6" (set hub), leveled through the site benchmark, and closed on "TP6" (set hub). The measurements were collected using a Digital Level and were hand written in Whidden Surveying & Mapping, Inc. Field Book W 210 Pages 38-42, dated September 18, 2019, reduced and adjusted electronically. Additional data was manually recorded in the field book.

GPS METHODS (horizontal position of site benchmark)

Latitude and Longitude for Benchmark G-2904 (G2904 2019) were established by observing a 3-minute session of GPS data on September 18, 2019 using a Trimble R-8-3 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 R8-3 Serial #: 4615113539
- Trimble GPS unit R6-4 Serial #: 0220266504
- Dini Digital Level Serial #: 735642

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LEVELING METHODS (Site: ground elevation-well monitoring point- USGS benchmarks)

A level loop was run from the previously established Site Benchmark G-2904 (G2904 2019), through all corners of concrete slab around well casing, through the ground shot north of the slab around casing (ground elevation), through the well monitoring point, and back to the Site Benchmark. The measurements were collected using an Automatic Level and were hand written in Dewberry Engineering, Inc. Field Book S.F.W.M.D. #1, Pages 25-28, dated September 20, 2019. Additional data was manually recorded.

GPS METHODS (horizontal position of Well G-2904 monitoring point & USGS Benchmarks)

Latitude and Longitude for Well G-2904 monitoring point (North edge of metal casing) and USGS Benchmarks were established by observing a 3-minute session of GPS data on September 27, 2019 using a Spectra SP-80 and The Florida Permanent Reference Network (FPRN). The FPRN network consists of nearly 100 Continuously Operating Reference Stations (CORS) located throughout Florida.


EQUIPMENT USED


- Spectra SP-80 Rover Serial #: 1165
- Topcon AT-G2 Serial #: 1439

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VERTICAL CONTROL POINT

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

NGS Benchmark "DALEY" (AJ8709)						
26° 05' 4.77" (N)	80° 11' 35.43" (W)	Published	3.87 ft.	(NAVD88)	1.18 m	Published
		<p>THE MARK IS 198.5 FT WEST OF CENTERLINE OF ASPHALT CROSSOVER, 188.3 FT EAST OF A UPRIGHT SIGN SUPPORT FOR OVERHEAD SIGN ACROSS WESTBOUND LANES, 44 FT SOUTH OF CENTERLINE OF WESTBOUND LANES, 5.5 FT EAST OF THE WEST EDGE OF A CONCRETE DROP INLET APRON, 4.5 FT WEST OF THE EAST EDGE OF CONCRETE DROP INLET APRON, AND 1.1 FT SOUTH OF THE NORTH EDGE OF A CONCRETE DROP INLET APRON. THE DISC IS SET FLUSH IN NORTH SIDE OF CONCRETE DROP INLET BASIN.</p> <p>NGS BENCHMARK DISK, SET IN CONCRETE SLAB OF DRAIN BASIN STAMPING: DALEY 1996</p>				

NGS Benchmark "X 175 8696" (AJ8700)						
26° 05' 07.09" (N)	80° 11' 01.32" (W)	Published	24.65 ft.	(NAVD88)	7.51 m	Published
		<p>THE MARK IS 89 FT EAST OF THE EAST EDGE OF THE DRAW BRIDGE STEEL GRATING, 14.5 FT NORTH OF THE CENTERLINE OF THE WESTBOUND STATE ROAD 84 AND 0.9 FT WEST OF A EXPANSION JOINT</p> <p>NGS BENCHMARK DISK SET IN CONCRETE ON WALKWAY OF BRIDGE</p> <p>STAMPING: FLORIDA D.O.T. SURVEY MARKER 8696 X 175</p>				

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BM: G-2904 (Existing on site benchmark)						
26° 05' 34.99" (N)	80° 11' 08.05" (W)		3.27 ft.	(NAVD88)	1.00 m	Level run
NAD_83(2011)			4.86 ft.	(NGVD29)	1.48 m	Converted
				1.59 ft. (conversion factor)		Corpscon 6.0.1
			STATION IS A S.F.W.M.D. BM STAMPED "G2904 2019" SET IN CONCRETE DRAIN BASIN ON NORTHEAST EDGE OF DRAIN GRATE LOCATED: EAST SIDE OF ROAD AT INTERSECTION OF SW 23 RD COURT AND FAIRMONT AVENUE			

Field Book W210, Page 38

<div style="border: 1px solid red; padding: 2px; display: inline-block;"> NGS BM "DALEY" Elev. 3.87' (NAVD 88) </div>			
G 2904 S.C. B.M.			
Sta	+ HI	-	ELEV
Daisy	4.274	9.894	3.87
Tp1		3.849	6.045
	4.645	10.739	
Tp2		4.115	6.624
	4.669	11.132	
Tp3		3.817	7.265
	4.782	12.048	
Tp4		3.827	8.141
	4.758	12.919	
Tp5		3.838	9.011
	5.404	14.485	
Tp6		4.653	9.864
	5.380	18.000	
Tp7		4.680	12.637

9-18-19	D.M. S/N 735442	W210/38
Rainy 91°		
A19109	BACKS DICK IN CONC STAMPED DALEY	
Turtle		
Turtle		
Turtle		
Turtle		
Turtle		
Turtle		
Turtle		
Turtle		
Turtle		
Turtle		
Turtle		
Turtle		

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Field Book 210 page 39 & 40

G 2904 Cont

B.C.
B.M.

STA	+	H.I.	-	ELEV
				12.637
TP 8	5.555	18.192		
			1.548	16.644
TP 9	6.570	22.214		
			1.592	20.626
	5.285	25.950		
			1.204	24.746

X 175 0.236

NGS BM "X 175"
Elev. 24.65' (NAVD 88)

9-18-19

W210/39

TP 8

TP 9

AJ 8700 BRASS PILE @ NE COR BRIDGE STRAITS BRIDGE

G 2904 Cont

B.C.
B.M.

STA	+	H.I.	-	ELEV
TP 6				9.28
TP 10	4.054	13.086	5.728	7.358
	4.314	11.072		
TP 11			5.845	5.427
	4.358	10.156		
TP 12			4.935	5.221
	4.410	9.631		
TP 13			4.815	4.817
	4.643	9.460		
TP 14			5.858	3.602
	4.753	8.355		
TP 15			4.349	4.006
	4.506	8.512		
TP 16			4.404	4.111

9-18-19

W210/40

SEE W210/38

SURVEYOR'S REPORT

Field Book 210 Pages 41 & 42

G2904 CONT

B.C.
B.M.

STA	+	HI	-	ELEV
				4.111
TP 17	4.926	9.037	4.713	4.324
TP 18	5.666	9.991	5.358	4.462
TP 19	5.262	9.994	5.708	4.286
	4.857	9.143		
TP 20			5.869	3.273
	5.818	9.091		
TP 21			5.506	3.585
	4.782	8.368		
TP 22			4.680	3.688
	5.241	8.929		
TP 23			4.992	3.947

9-12-19

W210/41

Site BM G-2904
Elev. 3.27' (NAVD 88)

SEE THIS DICK IN NOTES, COPY PASTED "G2904 2019"

G2904 CONT

STA	+	HI	-	ELEV
				3.947
TP 24	6.076	10.023	5.320	4.703
TP 25	5.640	10.342	5.007	5.326
TP 26	5.937	11.273	5.639	6.224
TP 27	6.067	12.301	4.611	7.690
	5.491	13.182		
TP 28			8.153	9.028

9-12-19

W210/42

SEE A1210/28

PROJECT RESULTS

Overall Site



G-2904 Well Site
Latitude: **26° 05' 35.35"**
Longitude: **80°11'08.01"**
Reference elevation
3.60' (NAVD88)

Benchmark "G-2904"
El. **3.27' (NAVD88)**

Looking South (Oblique not to scale)

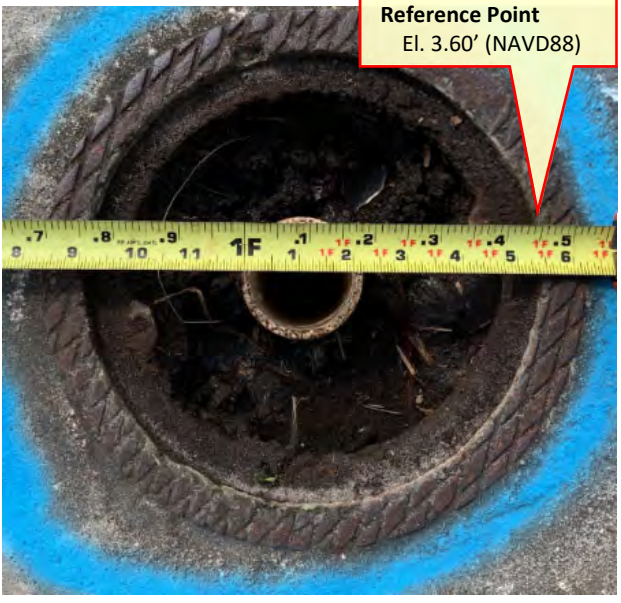
SURVEYOR'S REPORT

Tabular Form

Reference and Ground Elevations: NAVD88			
Well	Ground Elevation	Reference Elevation	Comments
G-2904	3.64 ft.	3.60 ft.	North top edge of metal casing
Offset to NGVD29: +1.59' (See Project Vertical Datum Notes in Page: 4)			
Well diameter		Casing material	DTW
2" PVC		Metal	-2.93 ft. (9/20/19 at 3:40 PM)

Source & Site Benchmark	NAVD88	NGVD29 (Published)	NGVD29 (Corpscon)
NGS "DALEY" (AJ8709)	3.87 ft. (Published)		
NGS "X 175 8696" (AJ8700)	24.65 ft. (Published)		
BM G-2904 (SFWMD)	3.27 ft. (Measured)		4.86 ft. (Converted)

Well Photos and Diagrams (Continued)



PT #	DESCRIPTION
12083	N. EDGE PVC WELL HEAD
12084	N. EDGE @ TOP OF METAL CASING
<hr/>	
9/20/19	
TASK: MEASURE DISTANCE TO WATERLINE FROM MEASURING POINT.	
MP: TOP OF METAL CASING @ NORTH EDGE	
TIME: 3:40 PM on 9/20/19	
MEASURE: 2.93'	
<hr/>	
SITE LOCATION: THIS IS AN 'UNDERGROUND' WELL SITE LOCATED TO THE NE OF THE INTERSECTION @ FAIRMONT AVE. & SW 23RD CT. ON THE EASTERN END OF FAIRMONT AVE. BETWEEN SHERIDAN & E EDGE OF PAVEMENT.	

SURVEYOR'S REPORT

Well Photos and Diagrams (Continued)



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 1.59 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: September 27, 2019, PO NO: 9500008146
7. SFWMD Data records (on file at the District's headquarters):
8. A. Electronic Data files:
 - Miscellaneous picture files
- B. Conventional reporting
 - Field Book: W210 page 38-42

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Abbreviations:

- Elev.** - Elevation
- DTW** - Distance to the water table inside the well
- BroCo.** - Broward 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
- MP** - Monitoring Point
- GS** - Ground Shot
- BM** - Benchmark
- RM** - Reference Monument

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.

William D. Donley

Last date of Survey
Sept. 27, 2019

William Donley, PSM
Florida Professional Surveyor and Mapper
License Number 5381
State of Florida
Dewberry Engineering, Inc. LB No 8011
131 West Kaley Street, Orlando, FL. 32806
Tel (321) 354-9826





South Florida Water Management District Benchmark Datasheet

Designation: G-2904	Project Name: USGS Ph 2, BROWARD	Type: V	State Plane Zone: FL East
Stamping: G2904 2019	Field Book Name: W210	Field Book Page: 38	
Established By: DEWBERRY / WHIDDEN	Recovered By: N/A	Recovery Date: N/A	
Surveyor: WILLIAM D. DONLEY	Established Date: 09/18/19	Status: New	

GEOGRAPHIC POSITION INFORMATION

Section: 17	Township: 50 SOUTH	Range: 42 EAST
County: BROWARD	Quadrangle: FORT LAUDERDALE SOUTH	Quad Index: 1702
NAD83 Adj. Year: 2011	Vertical Datum: NAVD1988	Horizontal Datum: NAD1983
NAVD88 Elevation (feet): 3.27	NGVD29 Elevation (feet): 4.86	2022 Elevation: N/A
NAVD88 Class: N/A	NGVD29 Class: N/A	Other Elevation: N/A
NAVD88 Order: 3	NGVD29 Order: N/A	Other Elevation Type: N/A

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 vertcor03.txt and vertcor0335 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville FL.)

Vertical Datum Offset: + 1.59	Actual NGS Elevation or ngvd29.txt file: N/A	OPUS Ortho Height: N/A
Northing (Y) (feet): 640347.2	Easting (X) (feet): 923460.7	Source of Latitude & Longitude: AVERAGED FPRN & TRIMBLE VRSNOW RTK
Latitude: 26 5 34.99	Longitude: 80 11 8.05	
DD°	MM'	SS"
Latitude (Decimal Degrees): 26.093053	Longitude (Decimal Degrees): -80.185569	

RECOVERY DATA

How to Reach: **1. FROM FL-7, HEAD EAST ALONG RIVERLAND RD FOR 1.1 MI**
2. TURN LEFT ONTO FAIRMONT AVE, CONTINUE 300 FEET TO THE MARK ON THE RIGHT (IMMEDIATELY AFTER THE INTERSECTION WITH SW 23RD CT)

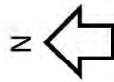
Description/Notes: **2" ALUMINUM SFWMD DISK SET IN CONCRETE SPILLWAY AT THE NORTHEAST CORNER OF METAL GRATE**

Notable Landmarks:

Other Source Benchmarks: **NGS "DALEY" (A18709)**

PICTURES

Aerial View of Overall Site

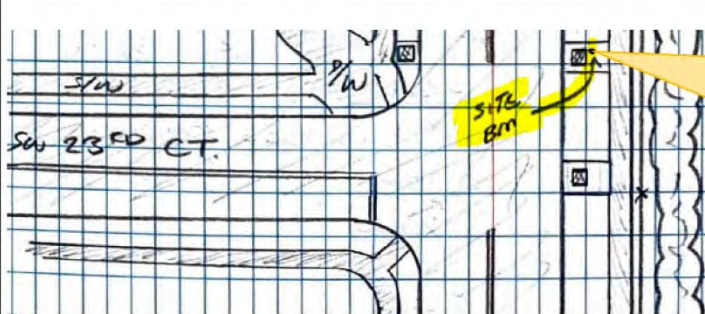


NOT TO SCALE. AERIAL FROM GOOGLE EARTH.



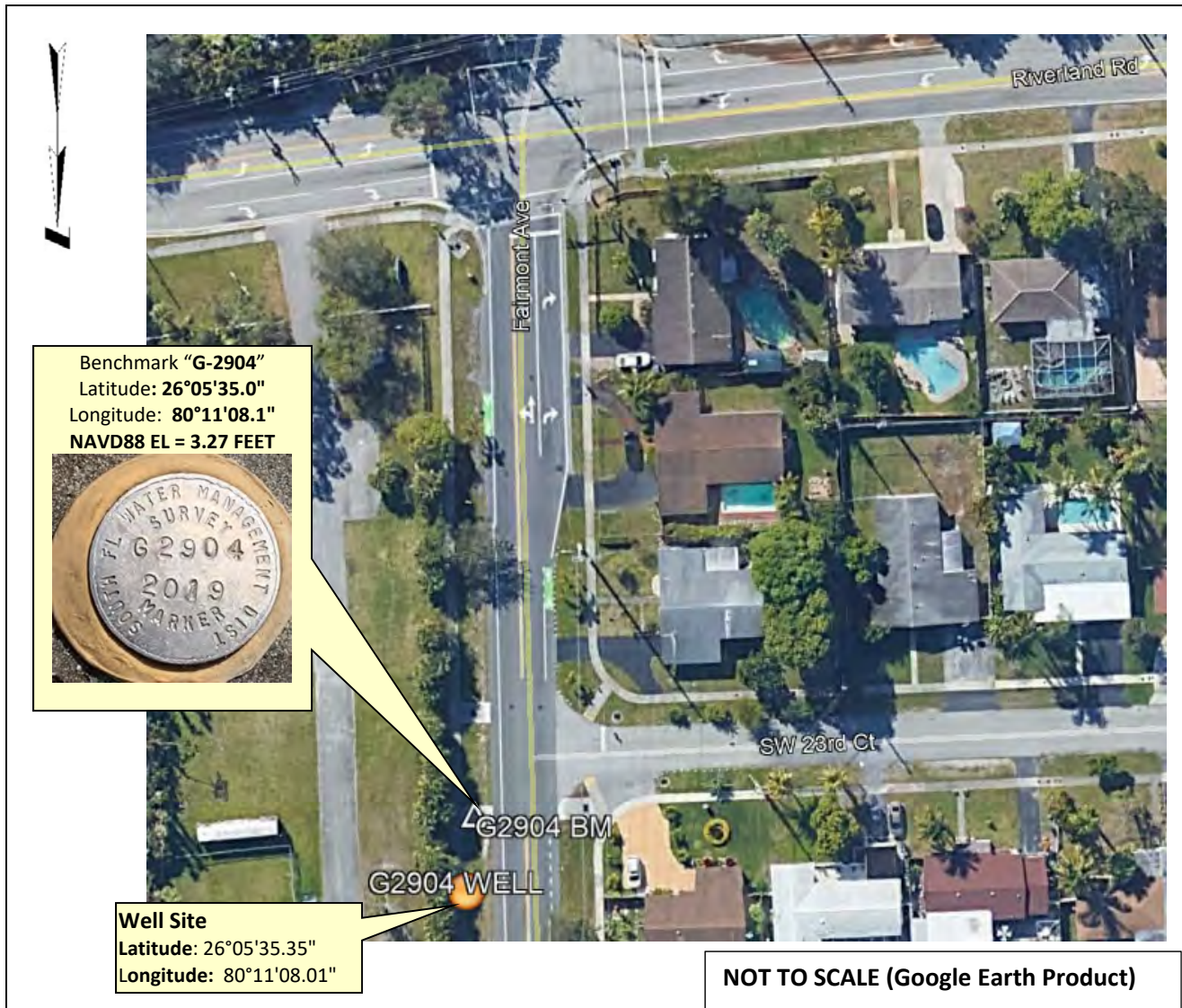
PICTURES

Site Sketch





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

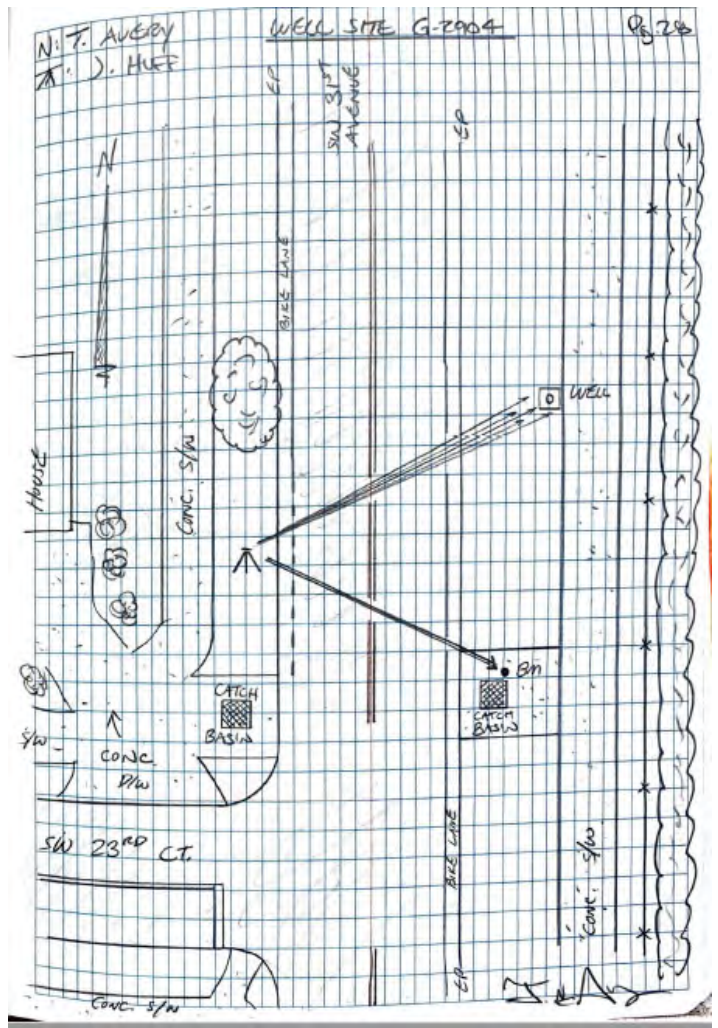
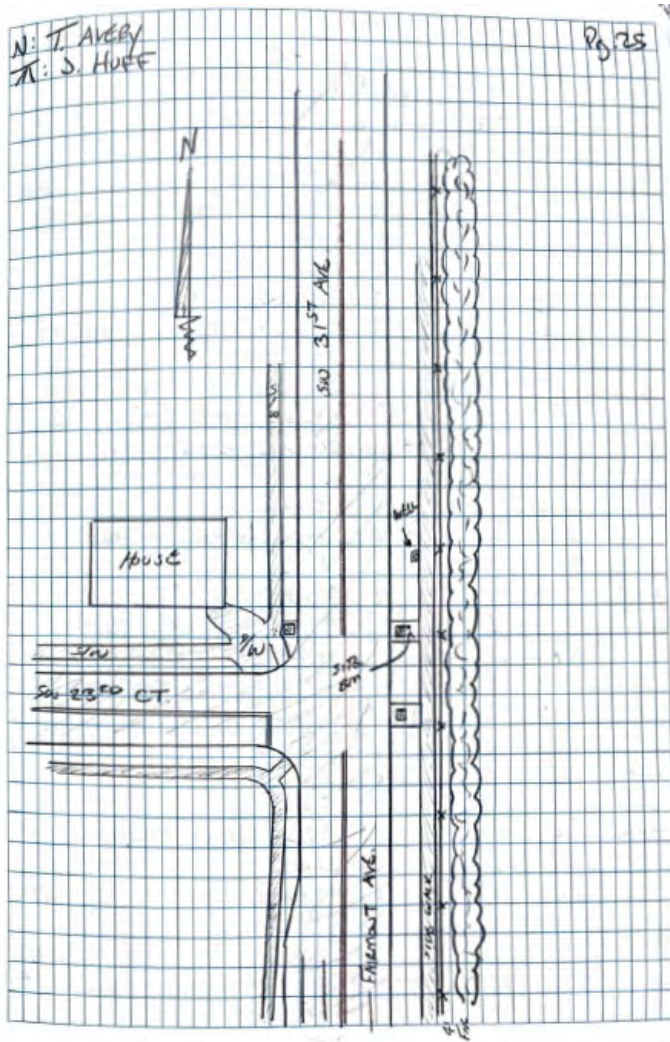




SOUTH FLORIDA WATER MANAGEMENT DISTRICT

SKETCH

FIELD BOOK SFWMD #1, PAGES 25 & 28



Office

Project

9 December 2019

INPUT

State Plane, NAD83
0901 - Florida East, U.S. Feet
Vertical - NAVD88, U.S. Feet

OUTPUT

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

WELL G-2904

1/2

Northing/Y: 640383.01
Easting/X: 923464.66
Elevation/Z: 3.60
Convergence: 0 21 29.65481
Scale Factor: 1.000023104
Combined Factor: 1.000026928

Latitude: 26 05 35.34735
Longitude: 80 11 08.00759
Elevation/Z: 5.194

BM G-2904

2/2

Northing/Y: 640347.2
Easting/X: 923460.7
Elevation/Z: 3.27
Convergence: 0 21 29.63009
Scale Factor: 1.000023101
Combined Factor: 1.000026941

Latitude: 26 05 34.99294
Longitude: 80 11 08.05348
Elevation/Z: 4.864

SPECTRA SP-90 SFWMD 09/20/19
 Rover S/A: USGS WELLS & BMS 09/27/19
 TRIMBLE NET JOB #: 50099999
 TRIPER HI: G-502 WELL SITE: G-2909

TASK: ESTABLISH HORIZONTAL COORDINATES ON MEASURING POINT & ANY REFERENCE ABUTMENTATION.

(9/27/19)	PT#	(N)	(E)	(C)	(E)	PT#	DESCRIPTION
S/O	20	-0.024	0.034	0.129	0.054	6054	CHE IN RM @ G2909
* LOCATED PT #'S 12083-12084							
S/O	20	-0.021	0.079	0.166	0.055	6055	CHE OUT RM @ G2909

PT # DESCRIPTION

12083 N EDGE PVC WELL HEAD
 12084 N EDGE @ TOP OF METAL CASING

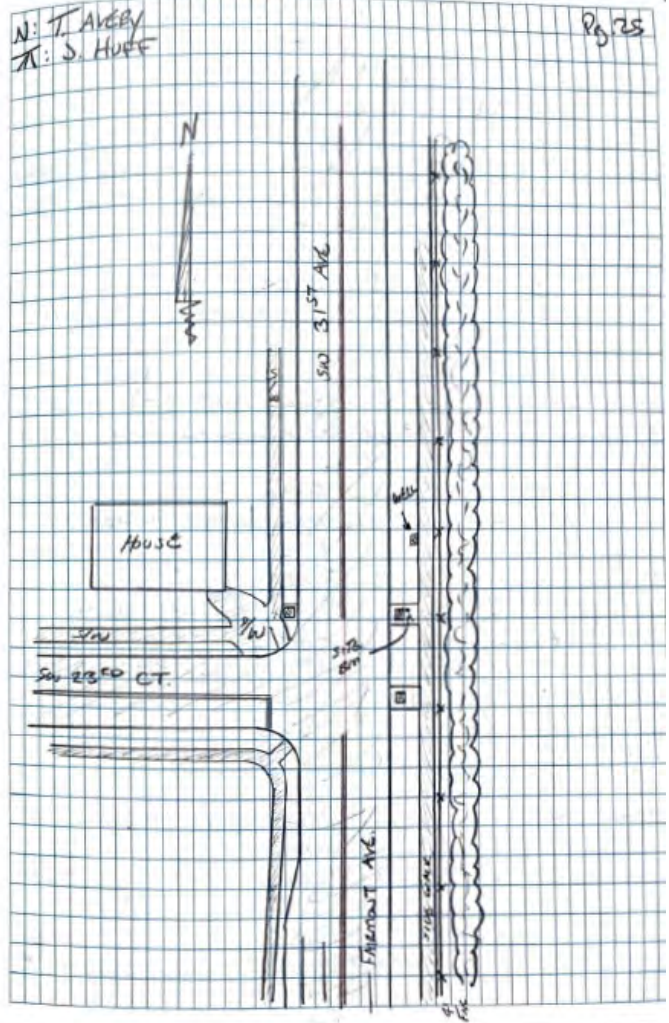
9/20/19
 TASK: MEASURE DISTANCE TO WATERLINE FROM MEASURING POINT

MP: TOP OF METAL CASING @ NORTH EDGE

TIME: 3.40 PM on 9/20/19

MEASURE: 2.93'

SITE LOCATION: THIS IS AN 'INGROUND' WELL SITE LOCATED TO THE NE OF THE INTERSECTION @ FAIRMONT AVE. & SW 23RD CT. ON THE EASTERN SIDE OF FAIRMONT AVE. BETWEEN THE E EDGE OF PAVEMENT.



Tolson	SEWARD		07/29/19	
AT-62	USGS WELLS & BM's			
S/W 1420	JOB # 5099999			
	WELL SITE: G-2904			
TASK: ELEVATE MONITORING POINT, GROUND, CORNERS OF CONC. SLAB, E. TOP OF WELL CASING & MEASURING POINT (M.P.).				
ELEVATION DESCRIPTION				
BEGIN @	100.00	ALUMINUM DISC IN T.P. OF		
	3.27			
(WHIDDEN)(NAVD88)				
RINGSIGHT (+) K FORESIGHT (-) ADJ				
STA 10	READING	MEAN	ELEV.	READING
	MEAN	ELEV.	ELEV.	ELEV.
	5.51		5.19	
B.M.	5.27	5.2733	105.2733	4.96
	5.04		8.5433	4.73
	47' / 47'			6' / 92'
			5.21	
B.M.	"	"	4.99	4.9883
			4.765	100.2830
			44.5' / 91.5'	3.5550
			5.21	
B.M.	"	"	4.985	4.9867
			4.765	100.2867
			44.5' / 91.5'	3.5566
			5.72	
B.M.	"	"	4.99	4.9900
			4.76	100.2838
			46' / 92'	3.5533

M. T. AERY
K. J. HOFF

Pg 26

CATCH BASIN ON EASTERN R/W OF S/W 31ST AVENUE

FORESIGHT (-)
DESCRIPTION

NE CORNER OF SLAB AROUND CASING

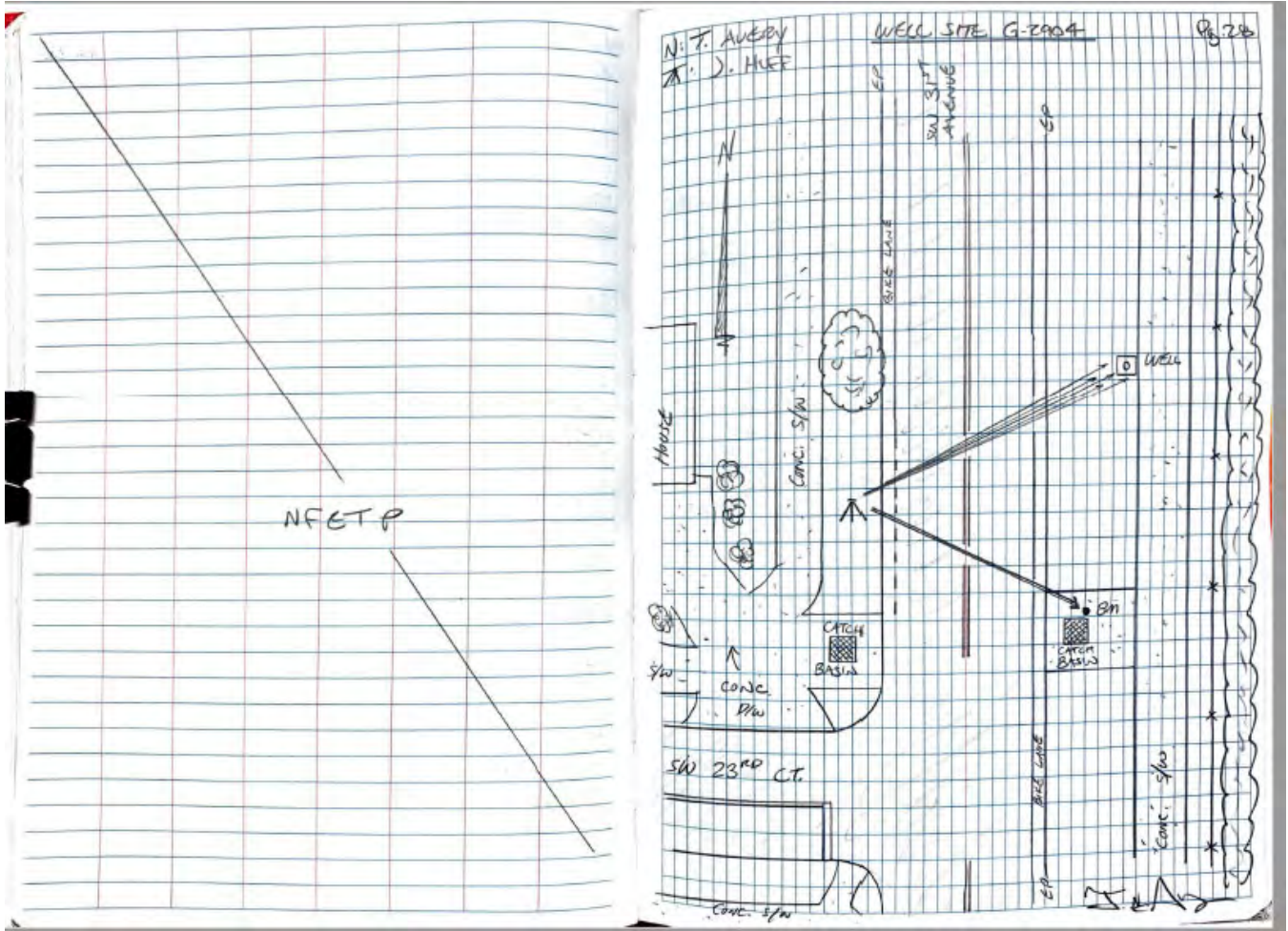
NW CORNER OF SLAB AROUND CASING

SW CORNER OF SLAB AROUND CASING

SE CORNER OF SLAB AROUND CASING

TIPCON	SEWMD		09/20/19	
AT-G2	USGS WELL & BMS			
S/N: 1438	JOB# 5009999A			
TASK	WELL SITE: G-2904			
	BACKSIGHT (+)	PI	FORESIGHT (-)	ADJ
	STAIN READINGS MEAN	ELEV	READINGS MEAN ELEV	ELEV
B.M.		"	5.13 4.90	100.3700
		"	4.68 95°/92'	3.6400
B.M.		"	5.165 4.94	100.3317
		"	4.72 99.5°/91.5'	3.6016
* BREAK SETUP				
MP	5.05		5.40	
	4.83	4.8300	5.1650	5.1650
	4.61	8.4316	4.93	99.9967
	44°/125.5'		47°/102.5'	3.2666
* END LEVEL LOOP				

N. TRAVERE	8/21
X. D. HUFF	
FORESIGHT (-)	
DESCRIPTION	
GROUND STAG (N. OF SCARS AROUND CASING)	
MP (MEASURING POINT @ NORTH EDGE OF CASING)	
BACK @ STARTING POINT (SITE BENCHMARK)	
Check In = -0.0034	



The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.12.5.4
1      National Geodetic Survey, Retrieval Date = OCTOBER 18, 2019
AJ8709 *****
AJ8709 DESIGNATION - DALEY
AJ8709 PID - AJ8709
AJ8709 STATE/COUNTY- FL/BROWARD
AJ8709 COUNTRY - US
AJ8709 USGS QUAD - FORT LAUDERDALE SOUT (1994)
AJ8709
AJ8709 *CURRENT SURVEY CONTROL
AJ8709
AJ8709* NAD 83(2011) POSITION- 26 05 04.76868(N) 080 11 35.43431(W) ADJUSTED
AJ8709* NAD 83(2011) ELLIP HT- -24.371 (meters) (06/27/12) ADJUSTED
AJ8709* NAD 83(2011) EPOCH - 2010.00
AJ8709* NAVD 88 ORTHO HEIGHT - 1.180 (meters) 3.87 (feet) ADJUSTED
AJ8709
AJ8709 GEOID HEIGHT - -25.502 (meters) GEOID18
AJ8709 NAD 83(2011) X - 976,344.693 (meters) COMP
AJ8709 NAD 83(2011) Y - -5,648,422.013 (meters) COMP
AJ8709 NAD 83(2011) Z - 2,787,478.106 (meters) COMP
AJ8709 LAPLACE CORR - -3.00 (seconds) DEFLEC18
AJ8709 DYNAMIC HEIGHT - 1.179 (meters) 3.87 (feet) COMP
AJ8709 MODELED GRAVITY - 979,056.7 (mgal) NAVD 88
AJ8709
AJ8709 VERT ORDER - FIRST CLASS II
AJ8709
AJ8709 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ8709 Standards:
AJ8709 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ8709 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ8709 -----
AJ8709 NETWORK 1.87 2.69 0.74 0.77 1.37 -0.28105523
AJ8709 -----
AJ8709 Click here for local accuracies and other accuracy information.
AJ8709
AJ8709
AJ8709.The horizontal coordinates were established by GPS observations
AJ8709.and adjusted by the National Geodetic Survey in June 2012.
AJ8709
AJ8709.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AJ8709.been affixed to the stable North American tectonic plate. See
AJ8709.NA2011 for more information.
AJ8709
AJ8709.The horizontal coordinates are valid at the epoch date displayed above
AJ8709.which is a decimal equivalence of Year/Month/Day.
AJ8709
AJ8709.The orthometric height was determined by differential leveling and
AJ8709.adjusted by the NATIONAL GEODETIC SURVEY
AJ8709.in May 2002.
AJ8709
AJ8709.Significant digits in the geoid height do not necessarily reflect accuracy.

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"DALEY" NGS Benchmark Datasheet (2 of 5)

AJ8709.GEOID18 height accuracy estimate available [here](#).
AJ8709
AJ8709.Click [here](#) to see if photographs exist for this station.
AJ8709
AJ8709.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ8709
AJ8709.The Laplace correction was computed from DEFLEC18 derived deflections.
AJ8709
AJ8709.The ellipsoidal height was determined by GPS observations
AJ8709.and is referenced to NAD 83.
AJ8709
AJ8709.The dynamic height is computed by dividing the NAVD 88
AJ8709.geopotential number by the normal gravity value computed on the
AJ8709.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8709.degrees latitude (g = 980.6199 gals.).
AJ8709
AJ8709.The modeled gravity was interpolated from observed gravity values.
AJ8709
AJ8709. The following values were computed from the NAD 83(2011) position.
AJ8709
AJ8709;
AJ8709;SPC FL E - North East Units Scale Factor Converg.
AJ8709;SPC FL E - 194,243.333 280,716.270 MT 1.00002159 +0 21 17.2
AJ8709;SPC FL E - 637,280.00 920,983.30 sFT 1.00002159 +0 21 17.2
AJ8709;UTM 17 - 2,885,309.040 580,688.729 MT 0.99968039 +0 21 17.2
AJ8709
AJ8709!
AJ8709!SPC FL E - Elev Factor x Scale Factor = Combined Factor
AJ8709!UTM 17 - 1.00000383 x 1.00002159 = 1.00002542
AJ8709!UTM 17 - 1.00000383 x 0.99968039 = 0.99968422
AJ8709
AJ8709_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ8068885309(NAD 83)
AJ8709
AJ8709 SUPERSEDED SURVEY CONTROL
AJ8709
AJ8709
AJ8709 NAD 83(2007)- 26 05 04.76876(N) 080 11 35.43492(W) AD(2002.00) 0
AJ8709 ELLIP H (02/10/07) -24.354 (m) GP(2002.00)
AJ8709 NAD 83(1999)- 26 05 04.76878(N) 080 11 35.43495(W) AD() 1
AJ8709 ELLIP H (12/12/02) -24.352 (m) GP() 4 1
AJ8709 NAVD 88 1.18 (m) 3.9 (f) LEVELING 3
AJ8709
AJ8709.Superseded values are not recommended for survey control.
AJ8709
AJ8709.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ8709.See file [dsdata.pdf](#) to determine how the superseded data were derived.
AJ8709
AJ8709_MARKER: DD = SURVEY DISK
AJ8709_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
AJ8709_SP_SET: DROP INLET
AJ8709_STAMPING: DALEY 1996
AJ8709_MARK LOGO: NGS
AJ8709_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8709_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AJ8709_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8709+SATELLITE: SATELLITE OBSERVATIONS - July 01, 2014
AJ8709
AJ8709 HISTORY - Date Condition Report By
AJ8709 HISTORY - UNK MONUMENTED NGS
AJ8709 HISTORY - 20011017 GOOD LDBLS
AJ8709 HISTORY - 20020512 GOOD MAPTEC
AJ8709 HISTORY - 20060619 GOOD PB
AJ8709 HISTORY - 20080512 GOOD FLDT

"DALEY" NGS Benchmark Datasheet (3 of 5)

AJ8709 HISTORY - 20090527 GOOD FLDT
 AJ8709 HISTORY - 20140701 GOOD INDIV
 AJ8709
 AJ8709 STATION DESCRIPTION
 AJ8709
 AJ8709'DESCRIBED BY LD BRADLEY LAND SURVEYORS 2001 (JCH)
 AJ8709'THE MARK IS ABOUT 2.4 KM (1.51 MI) WEST OF FORT LAUDERDALE, ABOUT 6.0
 AJ8709'KM (3.74
 AJ8709'MI) WEST OF PORT EVERGLADES IN SECTION 19, TOWNSHIP 50 SOUTH, RANGE 42
 AJ8709'EAST,
 AJ8709'BROWARD COUNTY, FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF
 AJ8709'TRANSPORTATION
 AJ8709'
 AJ8709'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE HIGHWAY 75 AND
 AJ8709'U.S.
 AJ8709'HIGHWAY 27 (I-75 EXIT 13, NEAR ANDYTOWN) GO EAST ON INTERSTATE HIGHWAY
 AJ8709'75 8.1
 AJ8709'KM (5.04 MI) TO THE JUNCTION WITH INTERSTATE HIGHWAY 595 EAST, EXIT
 AJ8709'RIGHT ONTO
 AJ8709'INTERSTATE HIGHWAY 595 EAST, AND GO EAST ALONG INTERSTATE HIGHWAY 595
 AJ8709'16.3 KM
 AJ8709'(10.13 MI) TO THE JUNCTION WITH STATE ROAD 84, GO EAST ON STATE ROAD
 AJ8709'84 1.5 KM
 AJ8709'(0.92 MI) TO THE MARK IN THE MEDIAN ON THE LEFT. ALSO TO REACH THE
 AJ8709'MARK FROM
 AJ8709'THE INTERSECTION OF STATE ROAD 84 AND EISENHOWER BOULEVARD IN PORT
 AJ8709'EVERGLADES,
 AJ8709'GO WEST ON STATE ROAD 84 1.0 KM (0.62 MI) TO THE ENTRANCE-EXIT OF PORT
 AJ8709'EVERGLADES, CONTINUE WEST ON STATE ROAD 84 6.0 KM (3.74 MI) TO THE
 AJ8709'MARK IN THE
 AJ8709'MEDIAN ON THE LEFT.
 AJ8709'
 AJ8709'THE MARK IS 60.50 M (198.5 FT) WEST OF THE CENTERLINE OF AN ASPHALT
 AJ8709'CROSS-OVER
 AJ8709'(BETWEEN WESTBOUND AND EASTBOUND LANES), 57.39 M (188.3 FT) EAST OF A
 AJ8709'UPRIGHT
 AJ8709'SIGN SUPPORT FOR A OVERHEAD SIGN ACROSS WESTBOUND LANES, 18.29 M (60.0
 AJ8709'FT)
 AJ8709'NORTH OF THE CENTERLINE OF THE EASTBOUND LANES, 13.41 M (44.0 FT)
 AJ8709'SOUTH OF THE
 AJ8709'CENTERLINE OF THE WESTBOUND LANES, 1.68 M (5.5 FT) EAST OF THE WEST
 AJ8709'EDGE OF A
 AJ8709'CONCRETE DROP INLET APRON, 1.37 M (4.5 FT) WEST OF THE EAST EDGE OF A
 AJ8709'CONCRETE
 AJ8709'DROP INLET APRON, AND 0.33 M (1.1 FT) SOUTH OF THE NORTH EDGE OF A
 AJ8709'CONCRETE
 AJ8709'DROP INLET APRON. THE MARK IS A DISK SET FLUSH IN THE NORTH SIDE OF A
 AJ8709'CONCRETE
 AJ8709'DROP INLET APRON, FLUSH WITH THE LEVEL OF THE GROUND, ABOUT 1.00 M
 AJ8709'(3.3 FT)
 AJ8709'BELOW THE LEVEL OF THE HIGHWAY.
 AJ8709
 AJ8709 STATION RECOVERY (2002)
 AJ8709
 AJ8709'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
 AJ8709'THE MARK IS ABOUT 2.4 KM (1.51 MI) WEST OF FORT LAUDERDALE, ABOUT 6.0
 AJ8709'KM (3.74
 AJ8709'MI) WEST OF PORT EVERGLADES IN SECTION 19, TOWNSHIP 50 SOUTH, RANGE 42
 AJ8709'EAST,
 AJ8709'BROWARD COUNTY, FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF

"DALEY" NGS Benchmark Datasheet (4 of 5)

AJ8709'TRANSPORTATION
AJ8709'
AJ8709'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE HIGHWAY 75 AND
AJ8709'U.S.
AJ8709'HIGHWAY 27 (I-75 EXIT 13, NEAR ANDYTOWN) GO EAST ON INTERSTATE HIGHWAY
AJ8709'75 8.1
AJ8709'KM (5.04 MI) TO THE JUNCTION WITH INTERSTATE HIGHWAY 595 EAST, EXIT
AJ8709'RIGHT ONTO
AJ8709'INTERSTATE HIGHWAY 595 EAST, AND GO EAST ALONG INTERSTATE HIGHWAY 595
AJ8709'16.3 KM
AJ8709'(10.13 MI) TO THE JUNCTION WITH STATE ROAD 84, GO EAST ON STATE ROAD
AJ8709'84 1.5 KM
AJ8709'(0.92 MI) TO THE MARK IN THE MEDIAN ON THE LEFT. ALSO TO REACH THE
AJ8709'MARK FROM
AJ8709'THE INTERSECTION OF STATE ROAD 84 AND EISENHOWER BOULEVARD IN PORT
AJ8709'EVERGLADES,
AJ8709'GO WEST ON STATE ROAD 84 1.0 KM (0.62 MI) TO THE ENTRANCE-EXIT OF PORT
AJ8709'EVERGLADES, CONTINUE WEST ON STATE ROAD 84 6.0 KM (3.74 MI) TO THE
AJ8709'MARK IN THE
AJ8709'MEDIAN ON THE LEFT.
AJ8709'
AJ8709'THE MARK IS 60.50 M (198.5 FT) WEST OF THE CENTERLINE OF AN ASPHALT
AJ8709'CROSS-OVER
AJ8709'(BETWEEN WESTBOUND AND EASTBOUND LANES), 57.39 M (188.3 FT) EAST OF A
AJ8709'UPRIGHT
AJ8709'SIGN SUPPORT FOR A OVERHEAD SIGN ACROSS WESTBOUND LANES, 18.29 M (60.0
AJ8709'FT)
AJ8709'NORTH OF THE CENTERLINE OF THE EASTBOUND LANES, 13.41 M (44.0 FT)
AJ8709'SOUTH OF THE
AJ8709'CENTERLINE OF THE WESTBOUND LANES, 1.68 M (5.5 FT) EAST OF THE WEST
AJ8709'EDGE OF A
AJ8709'CONCRETE DROP INLET APRON, 1.37 M (4.5 FT) WEST OF THE EAST EDGE OF A
AJ8709'CONCRETE
AJ8709'DROP INLET APRON, AND 0.33 M (1.1 FT) SOUTH OF THE NORTH EDGE OF A
AJ8709'CONCRETE
AJ8709'DROP INLET APRON. THE MARK IS A DISK SET FLUSH IN THE NORTH SIDE OF A
AJ8709'CONCRETE
AJ8709'DROP INLET APRON, FLUSH WITH THE LEVEL OF THE GROUND, ABOUT 1.00 M
AJ8709'(3.3 FT)
AJ8709'BELOW THE LEVEL OF THE HIGHWAY.
AJ8709'
AJ8709'STATION RECOVERY (2002)
AJ8709'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP)
AJ8709'RECOVERED AS DESCRIBED.
AJ8709
AJ8709 STATION RECOVERY (2006)
AJ8709
AJ8709'RECOVERY NOTE BY PBS&J 2006 (DWD)
AJ8709'RECOVERED IN GOOD CONDITION.
AJ8709
AJ8709 STATION RECOVERY (2008)
AJ8709
AJ8709'RECOVERY NOTE BY FLORIDA DEPARTMENT OF TRANSPORTATION 2008 (PED)
AJ8709'RECOVERED IN GOOD CONDITION.
AJ8709
AJ8709 STATION RECOVERY (2009)
AJ8709
AJ8709'RECOVERY NOTE BY FLORIDA DEPARTMENT OF TRANSPORTATION 2009 (JS)
AJ8709'RECOVERED AS DESCRIBED
AJ8709'

"DALEY" NGS Benchmark Datasheet (5 of 5)

AJ8709'THIS MARK MAY BE DESTROYED IN THE NEXT COUPLE OF YEARS DUE TO MAJOR
AJ8709'RECONSTRUCTION ON I-595.

AJ8709

AJ8709

STATION RECOVERY (2014)

AJ8709

AJ8709'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2014 (PED)

AJ8709'RECOVERD

*** 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 = 8.12.5.4
1      National Geodetic Survey,   Retrieval Date = OCTOBER 18, 2019
AJ8700 *****
AJ8700 DESIGNATION - X 175 8696
AJ8700 PID - AJ8700
AJ8700 STATE/COUNTY- FL/BROWARD
AJ8700 COUNTRY - US
AJ8700 USGS QUAD - FORT LAUDERDALE SOUT (1994)
AJ8700
AJ8700 *CURRENT SURVEY CONTROL
AJ8700
AJ8700* NAD 83(2011) POSITION- 26 05 07.08904(N) 080 11 01.32498(W) ADJUSTED
AJ8700* NAD 83(2011) ELLIP HT- -18.066 (meters) (06/27/12) ADJUSTED
AJ8700* NAD 83(2011) EPOCH - 2010.00
AJ8700* NAVD 88 ORTHO HEIGHT - 7.512 (meters) 24.65 (feet) ADJUSTED
AJ8700
AJ8700 GEOID HEIGHT - -25.532 (meters) GEOID18
AJ8700 NAD 83(2011) X - 977,274.353 (meters) COMP
AJ8700 NAD 83(2011) Y - -5,648,235.122 (meters) COMP
AJ8700 NAD 83(2011) Z - 2,787,545.013 (meters) COMP
AJ8700 LAPLACE CORR - -3.12 (seconds) DEFLEC18
AJ8700 DYNAMIC HEIGHT - 7.500 (meters) 24.61 (feet) COMP
AJ8700 MODELED GRAVITY - 979,056.6 (mgal) NAVD 88
AJ8700
AJ8700 VERT ORDER - FIRST CLASS II
AJ8700
AJ8700 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ8700 Standards:
AJ8700 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ8700 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ8700 -----
AJ8700 NETWORK 2.47 3.53 0.95 1.04 1.80 -0.31507982
AJ8700 -----
AJ8700 Click here for local accuracies and other accuracy information.
AJ8700
AJ8700
AJ8700.The horizontal coordinates were established by GPS observations
AJ8700.and adjusted by the National Geodetic Survey in June 2012.
AJ8700
AJ8700.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AJ8700.been affixed to the stable North American tectonic plate. See
AJ8700.NA2011 for more information.
AJ8700
AJ8700.The horizontal coordinates are valid at the epoch date displayed above
AJ8700.which is a decimal equivalence of Year/Month/Day.
AJ8700
AJ8700.The orthometric height was determined by differential leveling and
AJ8700.adjusted by the NATIONAL GEODETIC SURVEY
AJ8700.in May 2002.
AJ8700
AJ8700.Significant digits in the geoid height do not necessarily reflect accuracy.

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"X 175 8696" NGS Benchmark Datasheet (2 of 4)

AJ8700.GEOID18 height accuracy estimate available [here](#).
AJ8700
AJ8700.Click [here](#) to see if photographs exist for this station.
AJ8700
AJ8700.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ8700
AJ8700.The Laplace correction was computed from DEFLEC18 derived deflections.
AJ8700
AJ8700.The ellipsoidal height was determined by GPS observations
AJ8700.and is referenced to NAD 83.
AJ8700
AJ8700.The dynamic height is computed by dividing the NAVD 88
AJ8700.geopotential number by the normal gravity value computed on the
AJ8700.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8700.degrees latitude (g = 980.6199 gals.).
AJ8700
AJ8700.The modeled gravity was interpolated from observed gravity values.
AJ8700
AJ8700. The following values were computed from the NAD 83(2011) position.
AJ8700
AJ8700;
AJ8700;SPC FL E - North East Units Scale Factor Converg.
AJ8700;SPC FL E - 194,320.646 281,663.741 MT 1.00002349 +0 21 32.2
AJ8700;SPC FL E - 637,533.65 924,091.79 sFT 1.00002349 +0 21 32.2
AJ8700;UTM 17 - 2,885,386.327 581,635.878 MT 0.99968228 +0 21 32.2
AJ8700
AJ8700!
AJ8700!SPC FL E - Elev Factor x Scale Factor = Combined Factor
AJ8700!SPC FL E - 1.00000284 x 1.00002349 = 1.00002633
AJ8700!UTM 17 - 1.00000284 x 0.99968228 = 0.99968512
AJ8700
AJ8700_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ8163585386(NAD 83)
AJ8700
AJ8700 SUPERSEDED SURVEY CONTROL
AJ8700
AJ8700 NAD 83(2007)- 26 05 07.08912(N) 080 11 01.32559(W) AD(2002.00) 0
AJ8700 ELLIP H (02/10/07) -18.048 (m) GP(2002.00)
AJ8700 NAD 83(1999)- 26 05 07.08915(N) 080 11 01.32563(W) AD() 1
AJ8700 ELLIP H (12/12/02) -18.045 (m) GP() 4 1
AJ8700 NAVD 88 7.51 (m) 24.6 (f) LEVELING 3
AJ8700
AJ8700.Superseded values are not recommended for survey control.
AJ8700
AJ8700.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ8700.See file [dsdata.pdf](#) to determine how the superseded data were derived.
AJ8700
AJ8700_MARKER: DD = SURVEY DISK
AJ8700_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
AJ8700_SP_SET: CONCRETE WALK
AJ8700_STAMPING: 8696 X 175
AJ8700_MARK LOGO: FLDT
AJ8700_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8700_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AJ8700_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8700+SATELLITE: SATELLITE OBSERVATIONS - November 19, 2012
AJ8700
AJ8700 HISTORY - Date Condition Report By
AJ8700 HISTORY - UNK MONUMENTED FLDT
AJ8700 HISTORY - 20011018 GOOD LDBLS
AJ8700 HISTORY - 20020512 GOOD MAPTEC
AJ8700 HISTORY - 20090527 GOOD FLDT
AJ8700 HISTORY - 20121119 GOOD INDIV

"X 175 8696" NGS Benchmark Datasheet (3 of 4)

AJ8700
AJ8700 STATION DESCRIPTION
AJ8700
AJ8700'DESCRIBED BY LD BRADLEY LAND SURVEYORS 2001 (JCH)
AJ8700'THE MARK IS ABOUT 1.5 KM (0.92 MI) WEST OF FORT LAUDERDALE, ABOUT 5.1
AJ8700'KM (3.15
AJ8700'MI) WEST OF PORT EVERGLADES IN SECTION 20, TOWNSHIP 50 SOUTH, RANGE 42
AJ8700'EAST,
AJ8700'BROWARD COUNTY, FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF
AJ8700'TRANSPORTATION
AJ8700'
AJ8700'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE HIGHWAY 75 AND
AJ8700'U.S.
AJ8700'HIGHWAY 27 (I-75 EXIT 13, NEAR ANDYTOWN) GO EAST ON INTERSTATE HIGHWAY
AJ8700'75 8.1
AJ8700'KM (5.04 MI) TO THE JUNCTION WITH INTERSTATE HIGHWAY 595 EAST, EXIT
AJ8700'RIGHT ONTO
AJ8700'INTERSTATE HIGHWAY 595 EAST, AND GO EAST ALONG INTERSTATE HIGHWAY 595
AJ8700'16.3 KM
AJ8700'(10.13 MI) TO THE JUNCTION WITH STATE ROAD 84, GO EAST ON STATE ROAD
AJ8700'84 2.4 KM
AJ8700'(1.51 MI) TO THE EAST END OF A DRAW BRIDGE (BRIDGE NUMBER 860008) AND
AJ8700'THE MARK
AJ8700'ON THE LEFT. ALSO TO REACH THE MARK FROM THE INTERSECTION OF STATE
AJ8700'ROAD 84 AND
AJ8700'EISENHOWER BOULEVARD IN PORT EVERGLADES, GO WEST ON STATE ROAD 84 1.0
AJ8700'KM (0.62
AJ8700'MI) TO THE ENTRANCE-EXIT OF PORT EVERGLADES, CONTINUE WEST ON STATE
AJ8700'ROAD 84
AJ8700'5.1 KM (3.15 MI) TO THE EAST END OF A DRAW BRIDGE (BRIDGE NUMBER
AJ8700'860008) AND
AJ8700'THE MARK ON THE RIGHT.
AJ8700'
AJ8700'THE MARK IS 27.13 M (89.0 FT) EAST OF THE EAST EDGE OF THE DRAW BRIDGE
AJ8700'STEEL
AJ8700'GRATING, 4.42 M (14.5 FT) NORTH OF THE CENTERLINE OF THE WESTBOUND
AJ8700'LANES OF
AJ8700'STATE ROAD 84 AND 0.27 M (0.9 FT) WEST OF A EXPANSION JOINT (BETWEEN
AJ8700'BRIDGE
AJ8700'AND ABUTMENT). THE MARK IS A DISK SET FLUSH IN A CONCRETE WALK AT THE
AJ8700'NORTHEAST CORNER OF A DRAW BRIDGE (BRIDGE NUMBER 860008).
AJ8700
AJ8700 STATION RECOVERY (2002)
AJ8700
AJ8700'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AJ8700'THE MARK IS ABOUT 1.5 KM (0.92 MI) WEST OF FORT LAUDERDALE, ABOUT 5.1
AJ8700'KM (3.15
AJ8700'MI) WEST OF PORT EVERGLADES IN SECTION 20, TOWNSHIP 50 SOUTH, RANGE 42
AJ8700'EAST,
AJ8700'BROWARD COUNTY, FLORIDA. OWNERSHIP - FLORIDA DEPARTMENT OF
AJ8700'TRANSPORTATION
AJ8700'
AJ8700'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE HIGHWAY 75 AND
AJ8700'U.S.
AJ8700'HIGHWAY 27 (I-75 EXIT 13, NEAR ANDYTOWN) GO EAST ON INTERSTATE HIGHWAY
AJ8700'75 8.1
AJ8700'KM (5.04 MI) TO THE JUNCTION WITH INTERSTATE HIGHWAY 595 EAST, EXIT
AJ8700'RIGHT ONTO
AJ8700'INTERSTATE HIGHWAY 595 EAST, AND GO EAST ALONG INTERSTATE HIGHWAY 595
AJ8700'16.3 KM

"X 175 8696" NGS Benchmark Datasheet (4 of 4)

AJ8700'(10.13 MI) TO THE JUNCTION WITH STATE ROAD 84, GO EAST ON STATE ROAD
AJ8700'84 2.4 KM
AJ8700'(1.51 MI) TO THE EAST END OF A DRAW BRIDGE (BRIDGE NUMBER 860008) AND
AJ8700'THE MARK
AJ8700'ON THE LEFT. ALSO TO REACH THE MARK FROM THE INTERSECTION OF STATE
AJ8700'ROAD 84 AND
AJ8700'EISENHOWER BOULEVARD IN PORT EVERGLADES, GO WEST ON STATE ROAD 84 1.0
AJ8700'KM (0.62
AJ8700'MI) TO THE ENTRANCE-EXIT OF PORT EVERGLADES, CONTINUE WEST ON STATE
AJ8700'ROAD 84
AJ8700'5.1 KM (3.15 MI) TO THE EAST END OF A DRAW BRIDGE (BRIDGE NUMBER
AJ8700'860008) AND
AJ8700'THE MARK ON THE RIGHT.
AJ8700'
AJ8700'THE MARK IS 27.13 M (89.0 FT) EAST OF THE EAST EDGE OF THE DRAW BRIDGE
AJ8700'STEEL
AJ8700'GRATING, 4.42 M (14.5 FT) NORTH OF THE CENTERLINE OF THE WESTBOUND
AJ8700'LANES OF
AJ8700'STATE ROAD 84 AND 0.27 M (0.9 FT) WEST OF A EXPANSION JOINT (BETWEEN
AJ8700'BRIDGE
AJ8700'AND ABUTMENT). THE MARK IS A DISK SET FLUSH IN A CONCRETE WALK AT THE
AJ8700'NORTHEAST CORNER OF A DRAW BRIDGE (BRIDGE NUMBER 860008).
AJ8700'
AJ8700'STATION RECOVERY (2002)
AJ8700'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP)
AJ8700'RECOVERD AS DESCRIBED.
AJ8700'
AJ8700'
AJ8700' STATION RECOVERY (2009)
AJ8700'
AJ8700'
AJ8700'RECOVERY NOTE BY FLORIDA DEPARTMENT OF TRANSPORTATION 2009 (JS)
AJ8700'RECOVERED AS DESCRIBED
AJ8700'
AJ8700'
AJ8700'THIS MARK MAY BE DESTROYED IN THE NEXT COUPLE OF YEARS DUE TO MAJOR
AJ8700'RECONSTRUCTION ON I-595.
AJ8700'
AJ8700'
AJ8700' STATION RECOVERY (2012)
AJ8700'
AJ8700'
AJ8700'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2012 (ADC)
AJ8700'RECOVERED AS FOUND ON NORTHEAST CORNER OF DRAWBRIDGE IN GOOD
AJ8700'CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:03