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# Surveyor's Report

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## VERTICAL DATUM UPGRADE PROJECT

SFWMD Work Order Number: 4500019819

Contractors Project No.: 06-1108-08-01

Report Date: March 11, 2008 Revised June 5, 2008

Submittal: Final

Prepared for:

South Florida Water Management  
District



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## **OVERVIEW OF THE PROJECT**

### **PURPOSE**

This survey request consists of the establishment of elevations to third order National Geodetic Survey (NGS) Standards at:

- C23FEC      Martin County
  
- L31NT      Miami-Dade County
- G119      Miami-Dade County
- KROME      Miami-Dade County
  
- SAV1      St. Lucie County
- SAV4      Martin County
- SAV5      Martin County
- SAV6      Martin County

This survey request is associated with the District's Vertical Datum Upgrade Project (VDUP).

The objective of this Work Order is to establish a benchmark at the site and tie in the stilling wells by establishing NGS third order elevations referring to both the North American Vertical Datum of 1988 (NAVD 1988) and the National Geodetic Vertical Datum of 1929 (NGVD29) at the site.

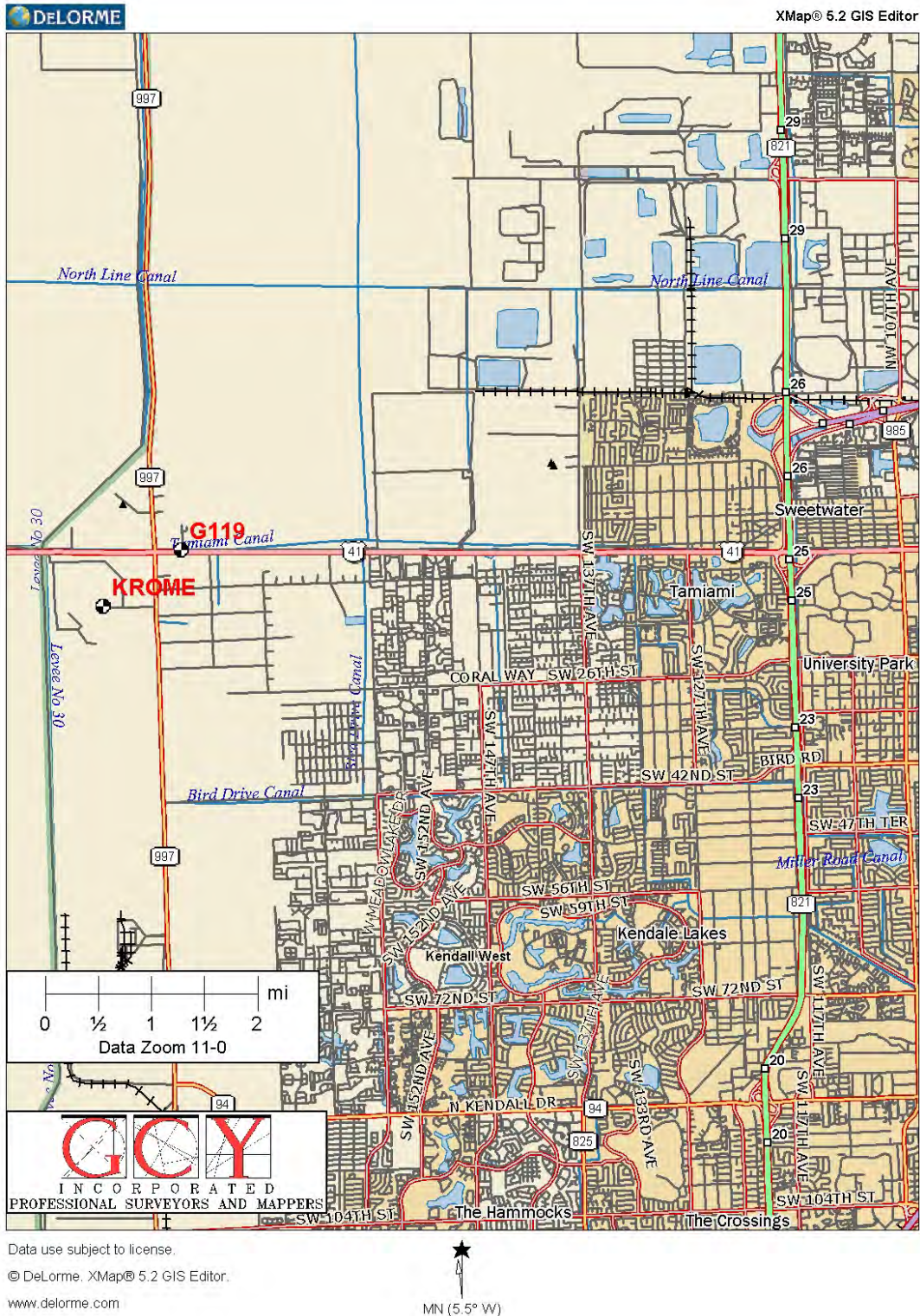
### **LOCATION OF PROJECT**

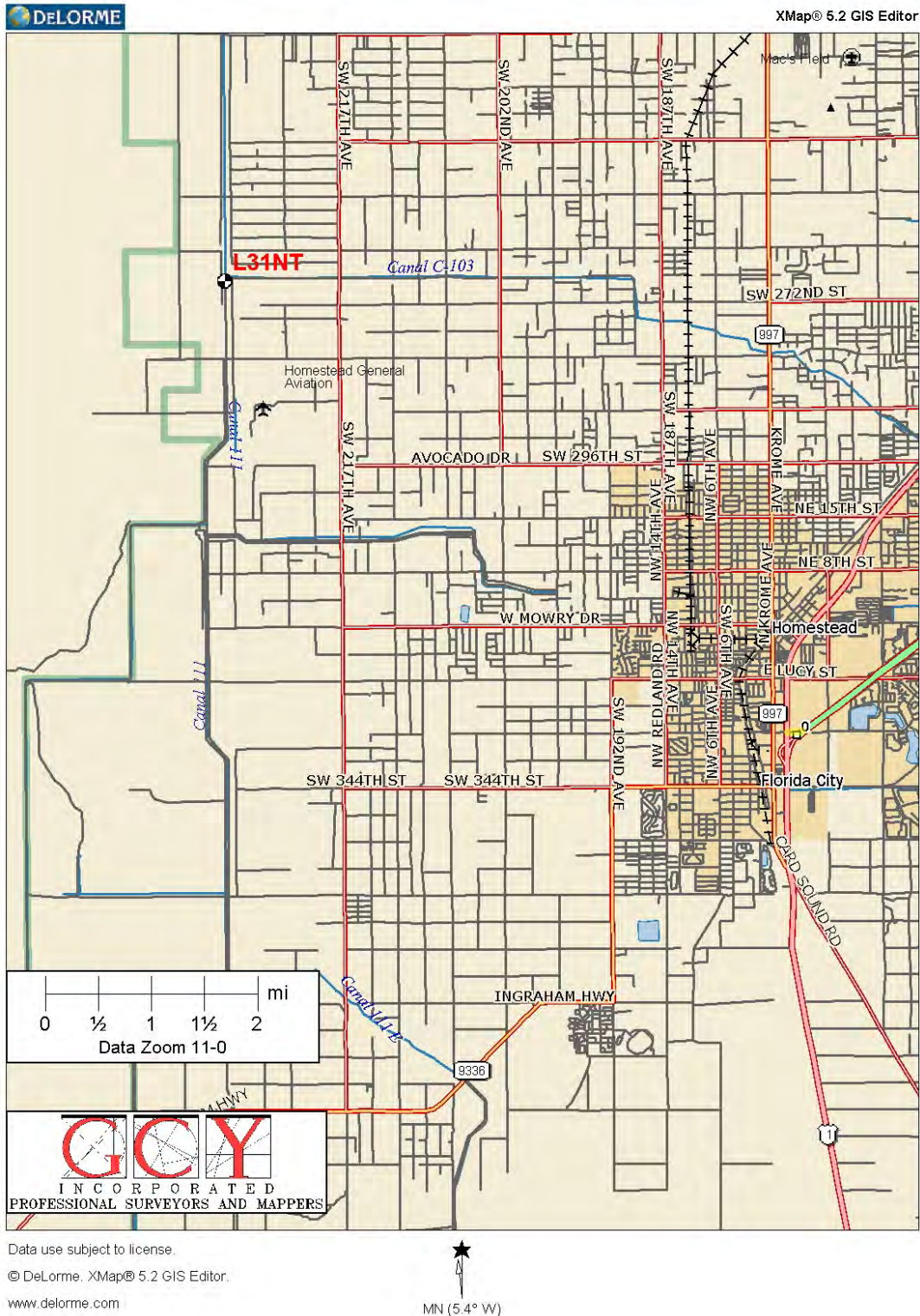
The project is located St. Lucie, Martin and Miami-Dade Counties. Following are vicinity maps for each site.













**ITEMS DELIVERED TO THE DISTRICT**

The following items are delivered to the District with this report. Neither the report nor the items listed below are complete without the other.

1. Two signed and sealed paper copies of the surveyor's report.
2. A CD with the company's logo, Title of the Survey with a list of all sites, date of the survey on the face of the CD or DVD and on the top of the CD and in **SFWMD** file folder format containing the following:
  - The survey reports in Microsoft Word format and pdf format signed and seal copy.
  - Digital photos.
  - Scanned copies of field notes.
  - Any other digital files associated with the survey.
  - Completed District benchmark description sheet for all found or set benchmarks.
  - Completed Excel benchmark spread sheet
  - Completed Addendum sheet

**VERTICAL DATUM FOR THE PROJECT**

The vertical datum for the project is the North American Vertical Datum of 1988. For correlation with older data sets, the elevations of the benchmarks are also shown in the National Geodetic Vertical Datum (NGVD) of 1929. The NGVD 29 elevations were derived using data provided by the South Florida Water Management District in a file named "NGVD29.txt" when applicable, otherwise NGS superseded values were used. The linear unit for all elevations is the U.S. Survey Feet unless otherwise stated.

**SITE “C23FEC”**

**NEW BENCHMARK**

A new concrete monument was constructed at the site by digging a hole approximately 3 feet deep, having a bottom diameter of 12 to 14 inches and a top diameter of 10 to 12 inches. The hole was filled with approximately 360 pounds of concrete (4 1/2 80 lb bags) with an aluminum South Florida Water Management District disk stamped “So. FLA. Water Management Dist. Survey Marker C23FEC 2008” set in the top of the concrete monument. A “Deep One” magnet was placed alongside the monument for ease of locating. A “Carsonite” post was set 15’ west of the monument in the fence line.

**LEVELING**

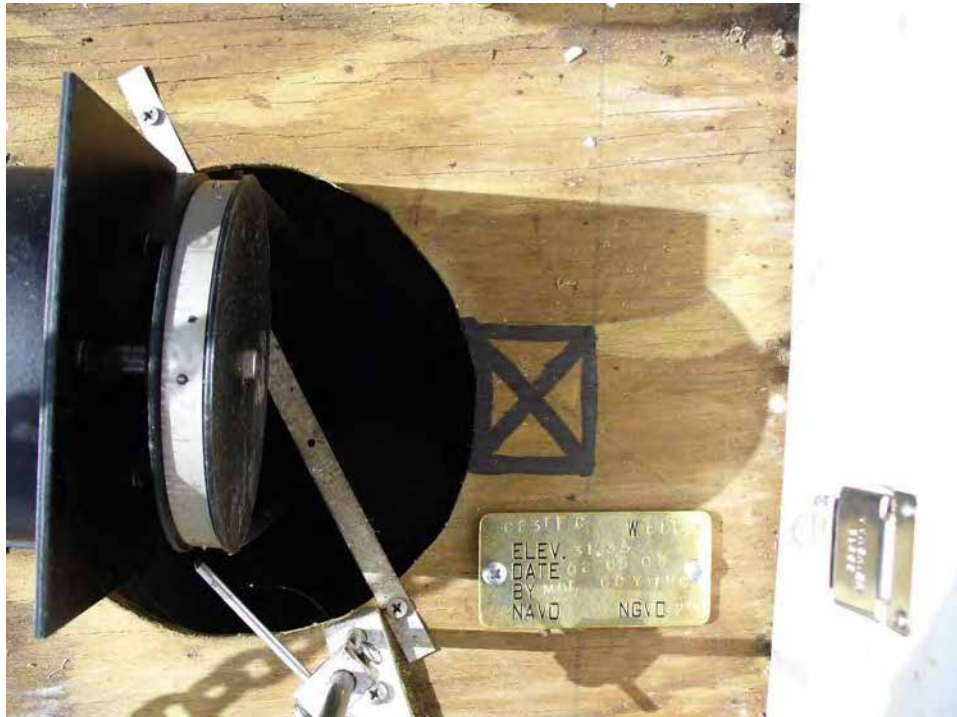
All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “A 544” (NGS PID AJ8577) and continued onto NGS benchmark “Z 543” (NGS PID AJ8576) with a closure of 0.031 feet over a distance of 1.10 miles. Leveling continued through the newly constructed benchmark “C23FEC 2008” and closed on NGS benchmark “Y 543” (NGS PID AJ8575) with a cumulative closure of 0.024 feet over a distance of 2.04 miles. Leveling then continued onto and concluded at NGS benchmark “X 543” (NGS PID AJ8574) with a total cumulative error of 0.000 feet over a distance of 3.08 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{distance}}$  of the distance run (in miles). Due to the disparity in closing on the middle 2 benchmarks “Z 543” and “Y 543” it was decided to run back through all benchmarks. After this was done, it was determined that the same middle 2 benchmarks have bad elevations. Ronnie Taylor of the NGS has been notified of the discrepancies in the elevations.

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	C23FEC
NGVD 1929 ELEVATION	27.494
NAVD 1988 ELEVATION	26.048
LATITUDE	N 27 12 25.7
LONGITUDE	W 80 34 43.1
<b><i>WELL DATA</i></b>	
WELL NAME	C23FEC
REF. ELEVATION NGVD	31.35
REF. ELEVATION NAVD	29.91
DIST TO WATER	9.38’ DATE: 02-05-2008

NOTE: Staff gauge found at site is leaning and is loose. Correlation of gauge reading to actual elevation not obtained.





**SITE “SAV 1”**

**NEW BENCHMARK**

A new concrete monument was constructed at the site by digging a hole approximately 3 feet deep, having a bottom diameter of 12 to 14 inches and a top diameter of 10 inches. The hole was filled with approximately 280 pounds of concrete (3 1/2 80 lb bags) with an aluminum South Florida Water Management District disk stamped “So. FLA. Water Management Dist. Survey Marker SAV 1 2008” set in the top of the concrete monument. A “Deep One” magnet was placed alongside the monument for ease of locating. A “Carsonite” post was set 15’ west of the monument in the fence line.

**LEVELING**

All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “A 640” (NGS PID PENDING) and continued onto NGS benchmark “SAV 9” (NGS PID AJ8576) with a closure of 0.001 feet over a distance of 0.27 miles. Leveling continued through the newly constructed benchmark “SAV 1 2008” and closed on NGS benchmark “WEATHERINGTON” (NGS PID AA5069) with a cumulative closure of 0.004 feet over a distance of 2.25 miles. Leveling then continued onto and concluded at NGS benchmark “J 236” (NGS PID AJ3191) with a total cumulative error of 0.002 feet over a distance of 2.69 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{of the distance run}}$  (in miles).

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	SAV 1
NGVD 1929 ELEVATION	17.469
NAVD 1988 ELEVATION	15.986
LATITUDE	N 27 18 08.1
LONGITUDE	W 80 16 22.7
<b><i>WELL DATA</i></b>	
WELL NAME	SAV 1
REF. ELEVATION NGVD	20.342
REF. ELEVATION NAVD	18.859
DIST TO WATER	3.85’ DATE: 02-05-2008

NOTE: The 19 foot mark on the staff gauge at this site has an NGVD 1929 elevation of 18.72 feet.





**SITE “SAV 4”**

**NEW BENCHMARK**

A new concrete monument was constructed at the site by digging a hole approximately 3 feet deep, having a bottom diameter of 12 to 14 inches and a top diameter of 10 inches. The hole was filled with approximately 280 pounds of concrete (3 1/2 80 lb bags) with an brass South Florida Water Management District disk stamped “S. FL. Water Mgt District. Survey Marker SAV 4 2008” set in the top of the concrete monument. A “Deep One” magnet was placed alongside the monument for ease of locating. A “Carsonite” post was set along side the monument.

**LEVELING**

All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “GS 41” (NGS PID AB2495) and continued onto NGS benchmark “GCY D20” (NGS PID AJ5262) with a closure of 0.007 feet over a distance of 0.41 miles. Leveling continued through the newly constructed benchmark “SAV 4 2008”. Leveling continued through the newly constructed benchmark “SAV 5 2008”. Leveling continued through the newly constructed benchmark “SAV 6 2008” and closed back on NGS benchmark “GS 41” (NGS PID AB2495) with a cumulative closure of 0.001 feet over a distance of 2.11 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{of the distance run}}$  (in miles).

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	SAV 4
NGVD 1929 ELEVATION	15.785
NAVD 1988 ELEVATION	14.312
LATITUDE	N 27 14 46.5
LONGITUDE	W 80 15 00.8
<b><i>WELL DATA</i></b>	
WELL NAME	SAV 4
REF. ELEVATION NGVD	18.20
REF. ELEVATION NAVD	16.73
DIST TO WATER	3.88' DATE: 02-05-2008

NOTE: The 16 foot mark on the staff gauge at this site has an NGVD 1929 elevation of 16.73 feet.







**SITE “SAV 5”**

**NEW BENCHMARK**

A new concrete monument was constructed at the site by digging a hole approximately 3 feet deep, having a bottom diameter of 12 to 14 inches and a top diameter of 10 inches. The hole was filled with approximately 280 pounds of concrete (3 1/2 80 lb bags) with an brass South Florida Water Management District disk stamped “S. FL. Water Mgt District. Survey Marker SAV 5 2008” set in the top of the concrete monument. A “Deep One” magnet was placed alongside the monument for ease of locating. A “Carsonite” post was set along side the monument.

**LEVELING**

All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “GS 41” (NGS PID AB2495) and continued onto NGS benchmark “GCY D20” (NGS PID AJ5262) with a closure of 0.007 feet over a distance of 0.41 miles. Leveling continued through the newly constructed benchmark “SAV 4 2008”. Leveling continued through the newly constructed benchmark “SAV 5 2008”. Leveling continued through the newly constructed benchmark “SAV 6 2008” and closed back on NGS benchmark “GS 41” (NGS PID AB2495) with a cumulative closure of 0.001 feet over a distance of 2.11 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{of the distance run}}$  (in miles).

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	SAV 5
NGVD 1929 ELEVATION	15.752
NAVD 1988 ELEVATION	14.279
LATITUDE	N 27 14 55.8
LONGITUDE	W 80 15 07.0
<b><i>WELL DATA</i></b>	
WELL NAME	SAV 5
REF. ELEVATION NGVD	18.958
REF. ELEVATION NAVD	17.485
DIST TO WATER	4.39 DATE: 02-06-2008

NOTE: The 16 foot mark on the staff gauge at this site has an NGVD 1929 elevation of 16.72 feet.





**SITE “SAV 6”**

**NEW BENCHMARK**

A new concrete monument was constructed at the site by digging a hole approximately 3 feet deep, having a bottom diameter of 12 to 14 inches and a top diameter of 10 inches. The hole was filled with approximately 280 pounds of concrete (3 1/2 80 lb bags) with an brass South Florida Water Management District disk stamped “S. FL. Water Mgt District. Survey Marker SAV 6 2008” set in the top of the concrete monument. A “Deep One” magnet was placed alongside the monument for ease of locating. A “Carsonite” post was set along side the monument.

**LEVELING**

All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “GS 41” (NGS PID AB2495) and continued onto NGS benchmark “GCY D20” (NGS PID AJ5262) with a closure of 0.007 feet over a distance of 0.41 miles. Leveling continued through the newly constructed benchmark “SAV 4 2008”. Leveling continued through the newly constructed benchmark “SAV 5 2008”. Leveling continued through the newly constructed benchmark “SAV 6 2008” and closed back on NGS benchmark “GS 41” (NGS PID AB2495) with a cumulative closure of 0.001 feet over a distance of 2.11 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{of the distance run}}$  (in miles).

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	SAV 6
NGVD 1929 ELEVATION	14.723
NAVD 1988 ELEVATION	13.250
LATITUDE	N 27 15 10.8
LONGITUDE	W 80 15 08.4
<b><i>WELL DATA</i></b>	
WELL NAME	SAV 6
REF. ELEVATION NGVD	19.016
REF. ELEVATION NAVD	17.543
DIST TO WATER	4.79 DATE: 02-06-2008

NOTE: The 16 foot mark on the staff gauge at this site has an NGVD 1929 elevation of 16.73 feet.







**SITE “L31NT”**

**NEW BENCHMARK**

A new concrete monument was constructed at the site by digging a hole approximately 0.7 feet deep, having a diameter of 10 to 12 inches. An Electric Jack Hammer was used to punch a hole into the rock at the center of the dugout hole. A 3/4 iron pipe was set in the hole and the hole and pipe were filled with concrete. A brass South Florida Water Management District disk stamped “S. FL. Water Mgt District. Survey Marker L31NT 2008” set in the top of the concrete filled pipe. A “Deep One” magnet was placed alongside the monument for ease of locating. A “Carsonite” post was set 3.2 feet east of the monument.

**LEVELING**

All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “G 504” (NGS PID AJ8392) and continued onto NGS benchmark “FCE 4514” (NGS PID AJ8391) with a closure of 0.003 feet over a distance of 1.01 miles. Leveling continued through the newly constructed benchmark “L31NT 2008” and closed on NGS benchmark “FCE 4515” (NGS PID AJ8390) with a cumulative closure of 0.001 feet over a distance of 1.65 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{distance}}$  of the distance run (in miles).

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	L31NT
NGVD 1929 ELEVATION	5.951
NAVD 1988 ELEVATION	4.369
LATITUDE	N 25 30 58.9
LONGITUDE	W 80 33 35.2
<b><i>WELL DATA</i></b>	
WELL NAME	L31NT
REF. ELEVATION NGVD	10.549
REF. ELEVATION NAVD	8.967
DIST TO WATER	6.98' DATE: 01-31-2008

NOTE: The 8 foot mark on the staff gauge at this site has an NGVD 1929 elevation of 8.05 feet.





**SITE “KROME”**

**NEW BENCHMARK**

A new benchmark was constructed by drilling a hole and epoxying a 2” aluminum South Florida Water Management District disk stamped “So. Fla. Water Mgt Dist. Survey Marker KROME 2008” into the top of a concrete base for a security light opposite the perimeter road from the well site.

**LEVELING**

All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “C 237 RESET” (NGS PID AJ7746) and continued onto NGS benchmark “203” (NGS PID AJ8367) with a closure of 0.026 feet over a distance of 0.37 miles. Leveling continued through the newly constructed benchmark “KROME 2008” and closed on NGS benchmark “U 626” (NGS PID DH9605) with a cumulative closure error of 0.034 feet over a distance of 3.44 miles. Leveling continued onto NGS benchmark “G 119” (NGS PID DH9621) with a cumulative closure error of 0.030 feet over a distance of 3.72 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{distance}}$  of the distance run (in miles).

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	KROME
NGVD 1929 ELEVATION	10.73
NAVD 1988 ELEVATION	9.206
LATITUDE	N 25 45 13.0
LONGITUDE	W 80 29 20.4
<b><i>WELL DATA</i></b>	
WELL NAME	KROME
REF. ELEVATION NGVD	11.073
REF. ELEVATION NAVD	9.549
DIST TO WATER	7.05' DATE: 02-04-2008

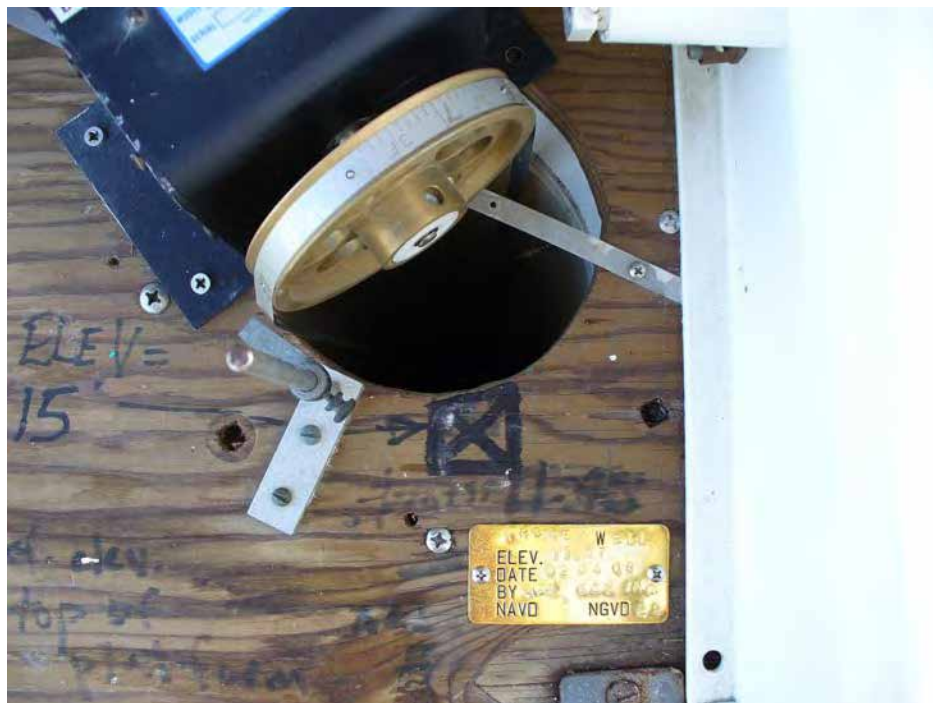
NOTE: There is not a staff gauge in the area of this well.



KROME Well



Benchmark



**SITE “G 119”**

**EXISTING BENCHMARK**

Existing NGS benchmark “G 119” (NGS PID DH9621) was recovered as described by NGS.

**LEVELING**

All leveling was performed using a Leica NA2002 digital level with standard Leica 3-section fiberglass barcode rods.

Leveling began at the NGS benchmark “U 626” (NGS PID DH9605) and continued onto NGS benchmark “G 119” (NGS PID DH9621) with a closure of 0.012 feet over a distance of 0.27 miles. Allowable error for this project is 0.03 feet per the  $\sqrt{\text{distance}}$  of the distance run (in miles).

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	G 119
NGVD 1929 ELEVATION	8.810
NAVD 1988 ELEVATION	7.286
LATITUDE	N 25 45 40.6
LONGITUDE	W 80 28 38.3
<b><i>WELL DATA</i></b>	
WELL NAME	G 119 (WEST)
REF. ELEVATION NGVD	11.908
REF. ELEVATION NAVD	10.384
DIST TO WATER	7.68' DATE: 02-01-2008

NOTE: 7' mark on staff gauge reads 6.91 NGVD 1929.

<b><i>SITE BENCHMARK DATA</i></b>	
DESIGNATION	G 119
NGVD 1929 ELEVATION	8.810
NAVD 1988 ELEVATION	7.286
LATITUDE	N 25 45 40.6
LONGITUDE	W 80 28 38.3
<b><i>WELL DATA</i></b>	
WELL NAME	G 119 (EAST)
REF. ELEVATION NGVD	12.405
REF. ELEVATION NAVD	10.881
DIST TO WATER	8.74' DATE: 02-01-2008

NOTE: 7' mark on staff gauge reads 6.91 NGVD 1929.



Figure 1-Looking at West Well and staff gauge.





**Figure 2 - West Well**



**Figure 3 - East Well and staff gauge.**



Figure 4 - Inside East Well.

**C23FEC BENCHMARK DATASHEET**

COUNTY : <u>ST. LUCIE</u>	PROJECT	DESIGNATION <u>C23FEC</u>
SECTION <u>31</u>	TOWNSHIP <u>37 SOUTH</u>	RANGE <u>38 EAST</u>
GEOGRAPHIC INDEX OF QUAD		
Established by : <u>GCY, INC</u> _____ Recovered by	NAME OF QUADRANGLE <u>BLUEFIELD</u>	
SURVEYOR <u>ANDERSEN</u> DATE: <u>1-10-2008</u>	FIELD BOOK <u>113A</u>	PAGE <u>46</u>
HORIZONTAL DATUM: <u>1927</u> <u>1983</u> Other _____ (circle one) ZONE <u>E</u> or <u>W</u>		
<b>STATE PLANE COORDINATES</b>		
<u>E</u> <u>793114 FT</u>	<u>N</u> <u>1044696 FT</u>	
LATITUDE: N DD MM SS.S <u>N 27 12 25.7</u>	LONGITUDE: W DD MM SS.S <u>W 80 34 43.1</u>	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>26.048</u> ft	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>27.494</u> ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>		
<b>DESCRIPTION</b>		
To Reach: AT FEC RAILROAD AND C-23 CANAL. 18 FT NORTH OF NORTH TOP OF BANK OF C-23 CANAL AND 15 FT EAST OF BARBED WIRE FENCE. CONCRETE MASS MONUMENT WITH SFWMD ALUMINUM DISK		
Benchmarks Used: NGS/CERP X 543, Y 543, Z 543, A 544		
Notable Land marks: FEC RAILROAD BRIDGE; C-23 CANAL		



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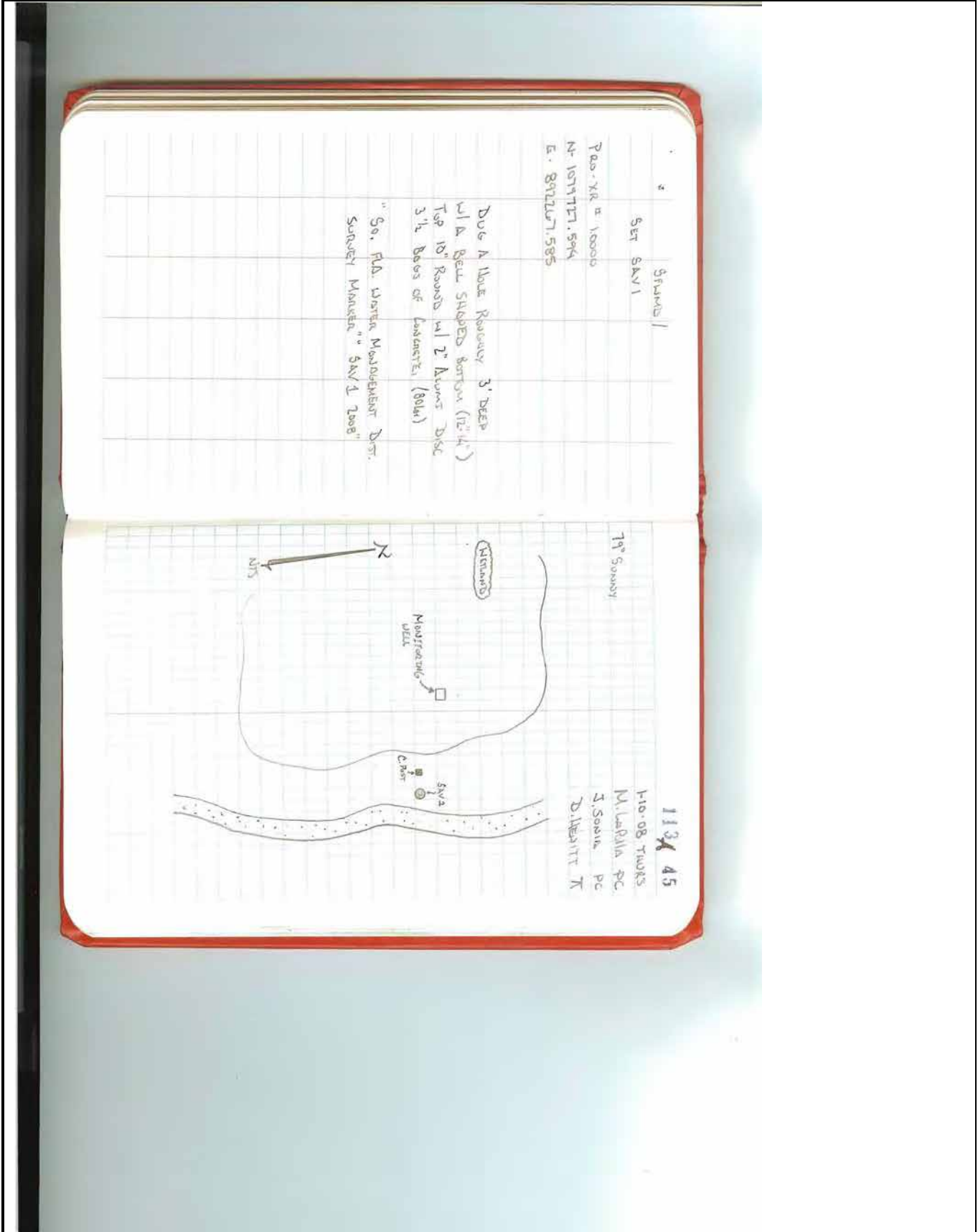
Current picture of  
mark



Picture

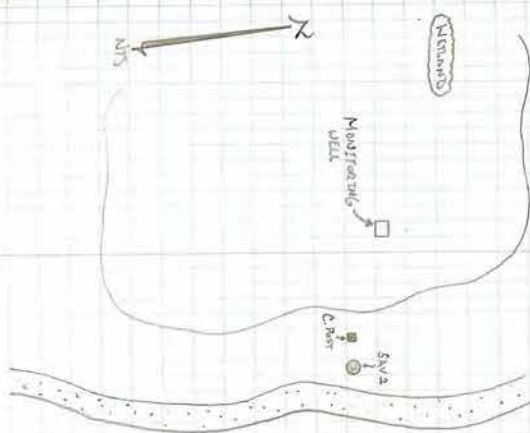
**SAV 1 BENCHMARK DATASHEET**

COUNTY : <u>ST. LUCIE</u>	PROJECT	DESIGNATION <u>SAV 1</u>
SECTION <u>31</u>	TOWNSHIP <u>36 SOUTH</u>	RANGE <u>41 EAST</u>
<b>GEOGRAPHIC INDEX OF QUAD</b>		
Established by : <u>GCY, INC</u> _____ Recovered by	NAME OF QUADRANGLE <u>ANKONA</u>	
SURVEYOR <u>ANDERSEN</u> DATE: <u>1-10-2008</u>	FIELD BOOK <u>113A</u> PAGE <u>45</u>	
HORIZONTAL DATUM: <u>1927</u> <u>1983</u> Other _____ (circle one) ZONE <u>E</u> or <u>W</u>		
<b>STATE PLANE COORDINATES</b>		
<u>E</u> <u>892268 FT</u>	<u>N</u> <u>1079728 FT</u>	
LATITUDE: N DD MM SS.S <u>N 27 18 08.1</u>	LONGITUDE: W DD MM SS.S <u>W 80 16 22.7</u>	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>15.986</u> ft	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>17.469</u> ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>		
<b>DESCRIPTION</b>		
<p>To Reach: FROM INTERSECTION OF FEC RAILROAD AND WALTON ROAD, GO WEST 1 MILE TO ENTRANCE TO SOUTH SAVANNAS PARK FACILITY. FOLLOW TRAIL NORTHERLY ALONG WEST SIDE OF FACILITY FOR 1310 FEET MORE OR LESS TO STATION ON THE LEFT. STATION LIES BETWEEN DIRT TRAIL AND EDGE OF WETLAND.</p> <p>Benchmarks Used: NGS A640, SAV 9, WEATHERINGTON, J 236</p> <p>Notable Land marks:</p>		



5740111  
 SET SW1  
 P.O. XR # 10000  
 N. 1079711.594  
 E. 8412117.585

DUG A HOLE RECOVERY 3' DEEP  
 W/ A BELL SHAPED BOTTOM (12" DIA)  
 TOP 10" ROUNDS W/ 2" ALUMS DISC  
 3 1/2 BARS OF CAST-IRON (80#) W/ A  
 " So. FLA. WATER MANAGEMENT DIST.  
 SURVEY MARKER " SW1 2008"



19th Survey  
 11/3/08  
 11-08 TWORKS  
 M. LARIN PC  
 J. SORIE PC  
 D. HEWITT T

Scanned Copy of Field book page

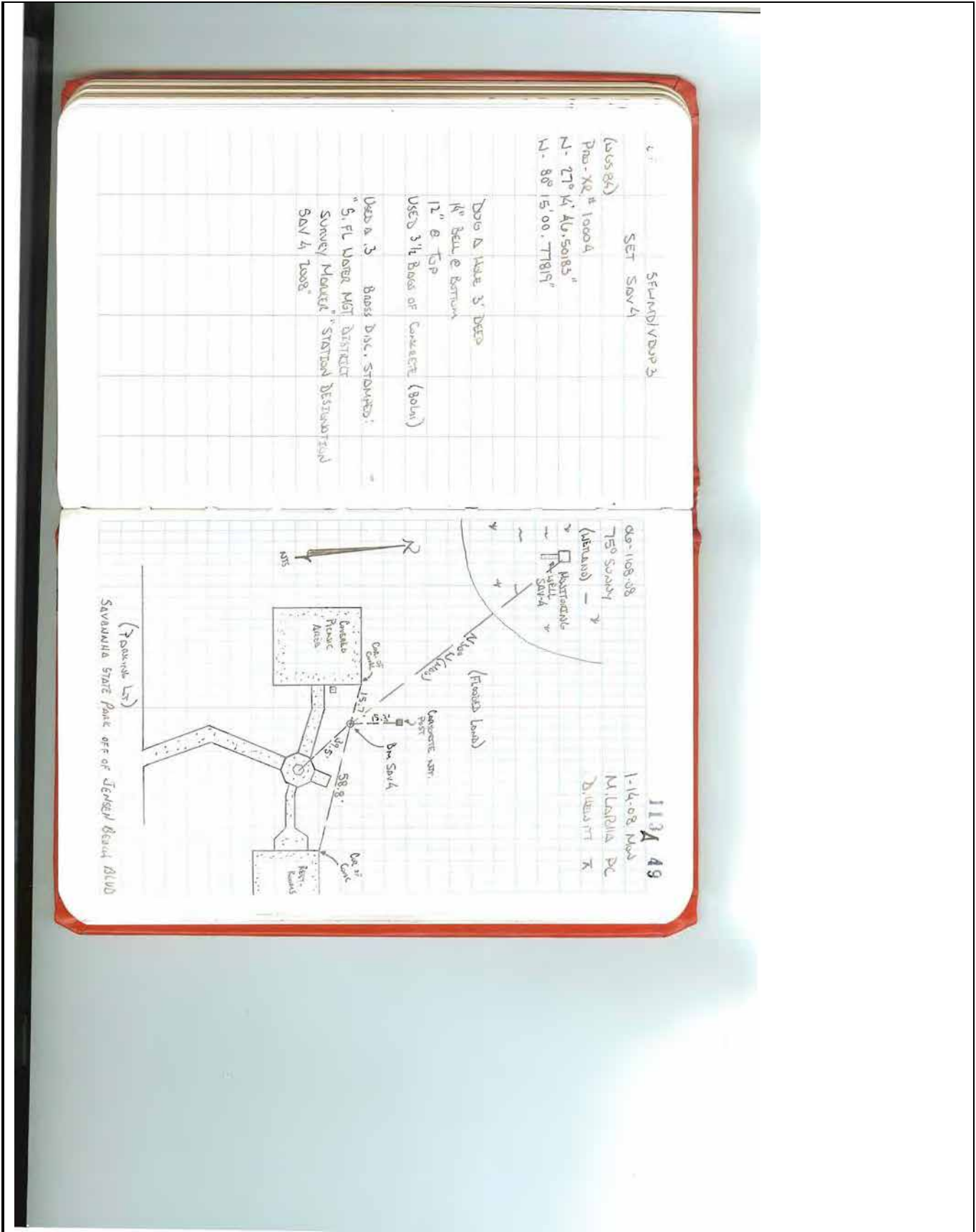


Picture



**SAV 4 BENCHMARK DATASHEET**

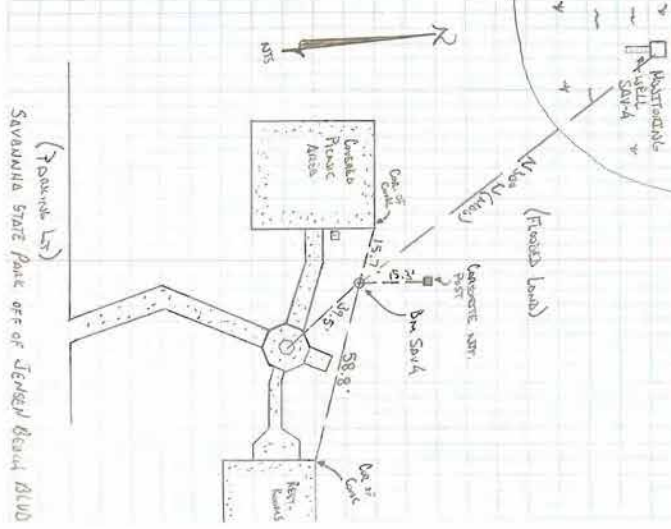
COUNTY : <u>MARTIN</u>	PROJECT	DESIGNATION <u>SAV 4</u>
SECTION <u>21</u>	TOWNSHIP <u>37 SOUTH</u>	RANGE <u>41 EAST</u>
<b>GEOGRAPHIC INDEX OF QUAD</b>		
Established by : <u>GCY, INC</u> _____ Recovered by	NAME OF QUADRANGLE <u>PALM CITY</u>	
SURVEYOR <u>ANDERSEN</u> DATE: <u>1-14-2008</u>	FIELD BOOK <u>113A</u> PAGE <u>49</u>	
HORIZONTAL DATUM: <u>1927</u> <u>1983</u> Other _____ (circle one) ZONE <u>E</u> or W		
<b>STATE PLANE COORDINATES</b>		
<u>E</u> <u>899781 FT</u>	<u>N</u> <u>1059401 FT</u>	
LATITUDE: N DD MM SS.S <u>N 27 14 46.5</u>	LONGITUDE: W DD MM SS.S <u>W 80 15 00.8</u>	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>14.312</u> ft	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>15.785</u> ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>		
<b>DESCRIPTION</b>		
<p>To Reach: FROM INTERSECTION OF JENSEN BEACH BLVD AND GREEN RIVER PARKWAY, GO EAST ON JENSEN BEACH BLVD APPROX. 1075 FEET TO THE ENTRANCE TO SAVANNAS STATE PARK ON THE NORTH. GO INTO THE PARK TO THE SIDEWALK INTERSECTION BETWEEN THE PICNIC PAVILION AND THE REST ROOMS. STATION IS 39.5 FEET NW OF SAID SIDEWALK INTERSECTION AND 15.7 FEET EASTERLY OF THE NE CORNER OF THE PICNIC PAVILION.</p> <p>Benchmarks Used: NGS - GS 41, GCY D20,</p> <p>Notable Land marks:</p>		



SEMI-DVD 3  
 SET SAV 4  
 (USGS)  
 Prio-XE # 10004  
 N- 27° W 49.50185"  
 N- 88° 15' 00" 77819"

DOO N HASE 3' DEEP  
 1/2" BELL & HOWELL  
 12" @ TOP  
 USED 3 1/2 BAGS OF CONCRETE (BOLN)  
 USED A 3' BRASS DISC, STAMPED:  
 "S. FL WATER MGT DISTRICT  
 SURVEY MOUNTAIN STATION DESIGNATED  
 SAV 4 2008"

113A 49  
 1-14-08 MWD  
 M. LARILLA DC  
 D. WEAVER T



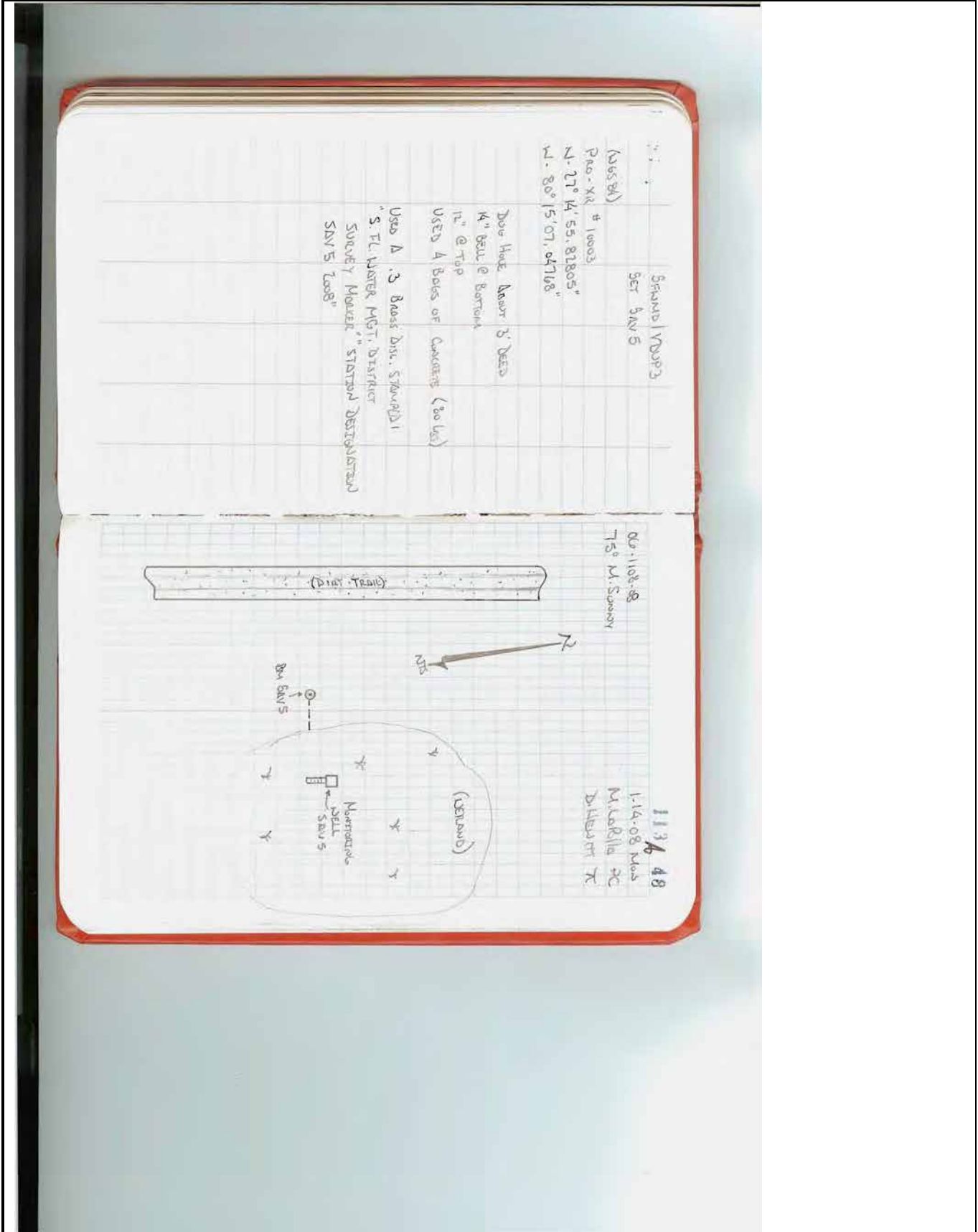
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Picture

**SAV 5 BENCHMARK DATASHEET**

COUNTY : <u>MARTIN</u>	PROJECT	DESIGNATION <u>SAV 5</u>
SECTION <u>21</u>	TOWNSHIP <u>37 SOUTH</u>	RANGE <u>41 EAST</u>
<b>GEOGRAPHIC INDEX OF QUAD</b>		
Established by : <u>GCY, INC</u> _____ Recovered by	NAME OF QUADRANGLE <u>PALM CITY</u>	
SURVEYOR <u>ANDERSEN</u> DATE: <u>1-14-2008</u>	FIELD BOOK <u>113A</u> PAGE <u>48</u>	
HORIZONTAL DATUM: <u>1927</u> <u>1983</u> Other _____ (circle one)    ZONE <u>E</u> or <u>W</u>		
<b>STATE PLANE COORDINATES</b>		
<u>E</u> <u>899210 FT</u>	<u>N</u> <u>1060355 FT</u>	
LATITUDE: N DD MM SS.S <u>N 27 14 55.8</u>	LONGITUDE: W DD MM SS.S <u>W 80 15 07.0</u>	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>14.279</u> ft	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>15.752</u> ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>		
<b>DESCRIPTION</b>		
<p>To Reach: FROM INTERSECTION OF JENSEN BEACH BLVD AND GREEN RIVER PARKWAY, GO EAST ON JENSEN BEACH BLVD APPROX. 230 FEET TO A DIRT ROAD ON THE NORTH SIDE OF JENSEN BEACH BLVD. THENCE GO NORTH ALONG SAID DIRT ROAD APPROX 1300 FEET TO THE STATION ON THE RIGHT. STATION IS APPROX. 225 FEET EAST OF THE DIRT ROAD AT THE WES SIDE OF A WETLAND.</p> <p>Benchmarks Used: NGS - GS 41, GCY D20,</p> <p>Notable Land marks:</p>		



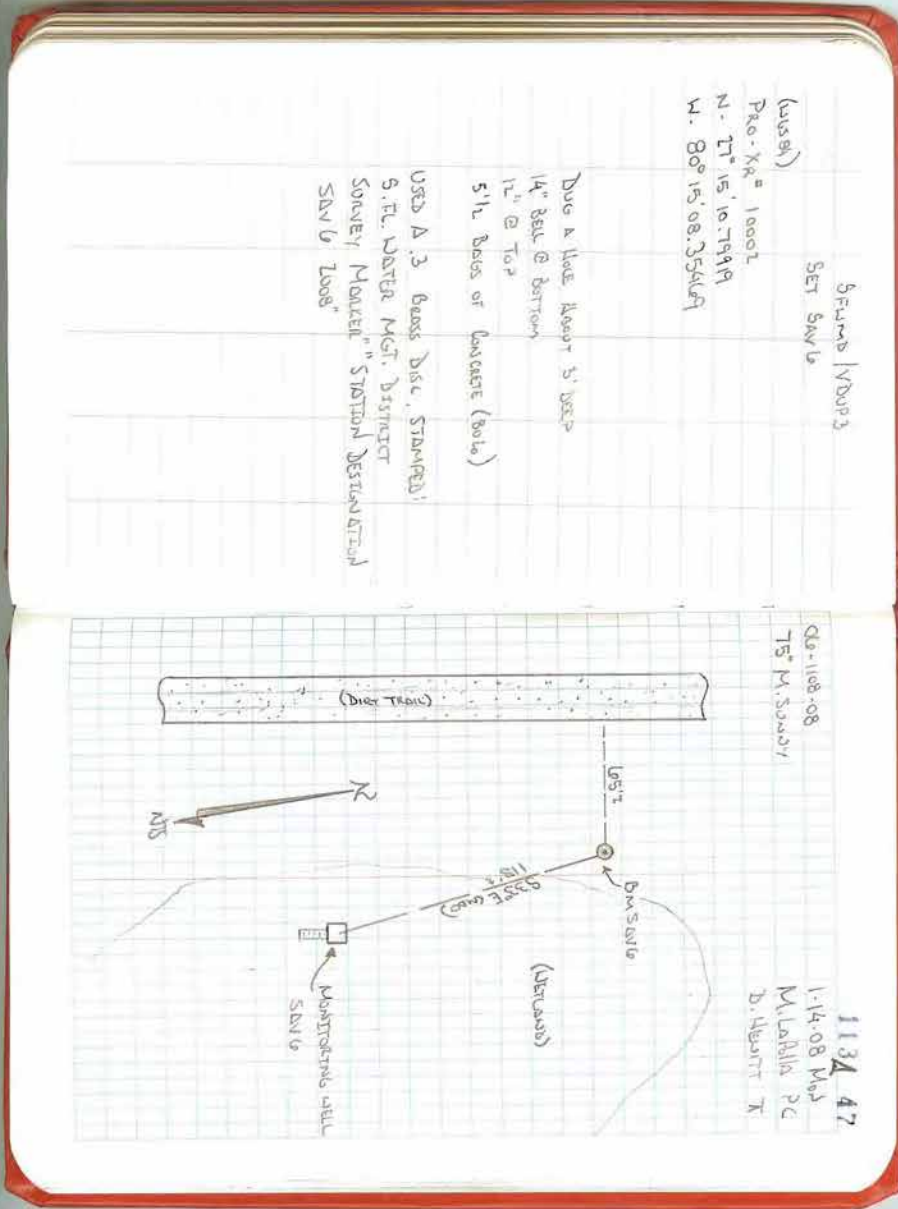
Scanned Copy of Field book page



Picture

**SAV 6 BENCHMARK DATASHEET**

COUNTY : <u>MARTIN</u>	PROJECT	DESIGNATION <u>SAV 6</u>
SECTION <u>16</u>	TOWNSHIP <u>37 SOUTH</u>	RANGE <u>41 EAST</u>
<b>GEOGRAPHIC INDEX OF QUAD</b>		
Established by : <u>GCY, INC</u> _____ Recovered by	NAME OF QUADRANGLE <u>ANKONA</u>	
SURVEYOR <u>ANDERSEN</u> DATE: <u>1-14-2008</u>	FIELD BOOK <u>113A</u> PAGE <u>47</u>	
HORIZONTAL DATUM: <u>1927</u> <u>1983</u> Other _____ (circle one) ZONE <u>E</u> or <u>W</u>		
<b>STATE PLANE COORDINATES</b>		
<u>E</u> <u>899082.5 FT</u>	<u>N</u> <u>1061866 FT</u>	
LATITUDE: N DD MM SS.S <u>N 27 15 10.8</u>	LONGITUDE: W DD MM SS.S <u>W 80 15 08.4</u>	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>13.250</u> ft	
VERTICAL DATUM: MSL <u>1929</u> <u>1988</u> Other _____ (circle one)	EL. <u>14.723</u> ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>		
<b>DESCRIPTION</b>		
<p>To Reach: FROM INTERSECTION OF JENSEN BEACH BLVD AND GREEN RIVER PARKWAY, GO EAST ON JENSEN BEACH BLVD APPROX. 230 FEET TO A DIRT ROAD ON THE NORTH SIDE OF JENSEN BEACH BLVD. THENCE GO NORTH ALONG SAID DIRT ROAD APPROX 2830 FEET TO THE STATION ON THE RIGHT. STATION IS APPROX. 65 FEET EAST OF THE DIRT ROAD AT THE WEST SIDE OF A WETLAND.</p> <p>.</p> <p>Benchmarks Used: NGS - GS 41, GCY D20,</p> <p>Notable Land marks:</p>		





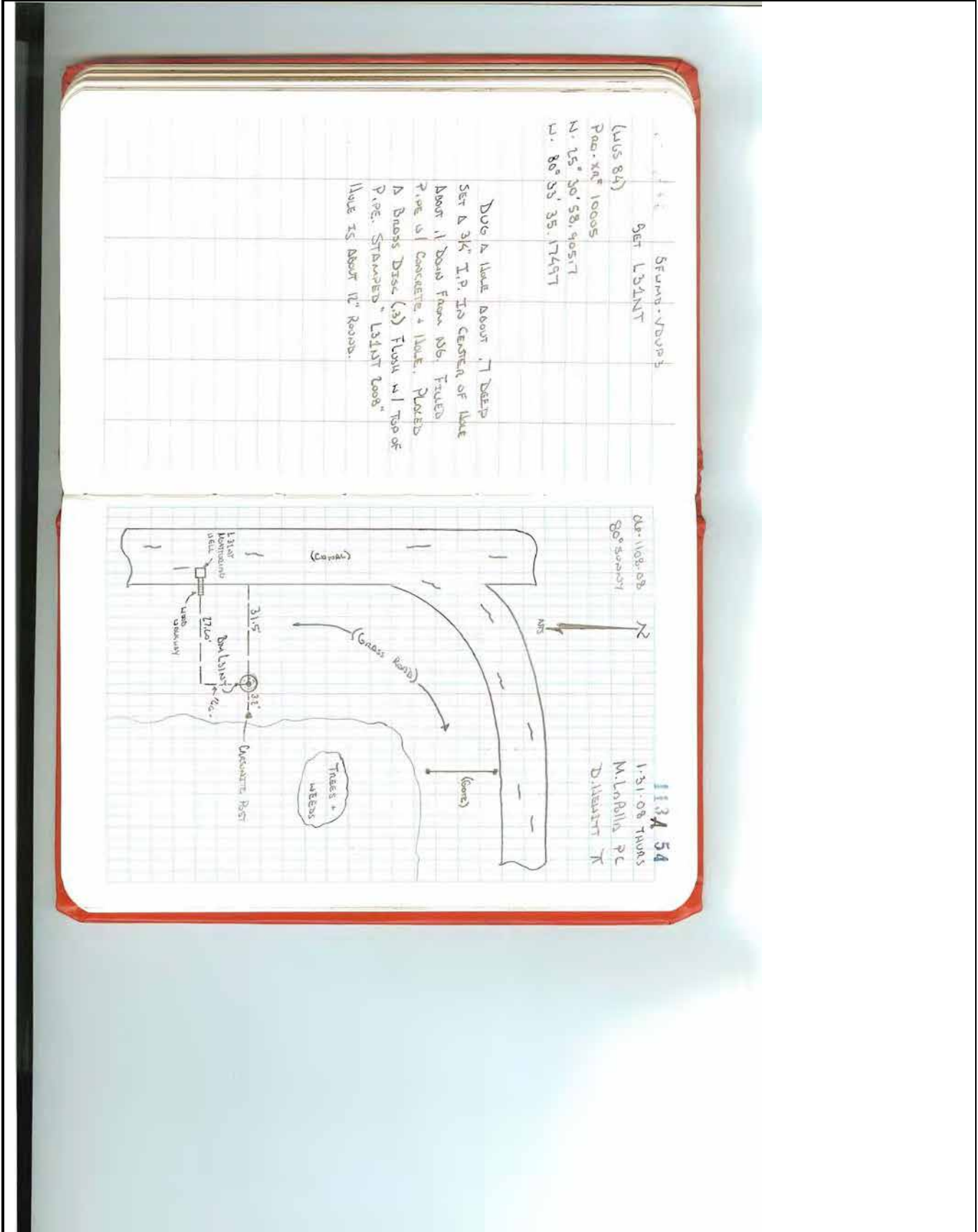
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Picture

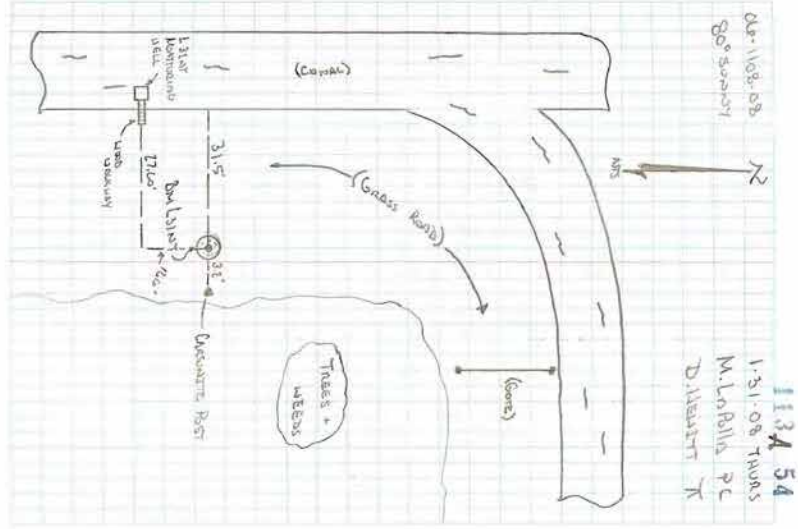
**L31NT BENCHMARK DATASHEET**

<b>COUNTY :</b> <u>MIAMI-DADE</u>	<b>PROJECT</b>	<b>DESIGNATION</b> <u>L31NT</u>
<b>SECTION</b> <u>31</u>	<b>TOWNSHIP</b> <u>56 SOUTH</u>	<b>RANGE</b> <u>38 EAST</u>
<b>GEOGRAPHIC INDEX OF QUAD</b>		
Established by : <u>GCY, INC</u> _____ Recovered by	<b>NAME OF QUADRANGLE</b> <u>GROSSMAN HAMMOCK</u>	
<b>SURVEYOR</b> <u>ANDERSEN</u> <b>DATE:</b> <u>1-31-2008</u>	<b>FIELD BOOK</b> <u>113A</u> <b>PAGE</b> <u>54</u>	
<b>HORIZONTAL DATUM:</b> <u>1927</u> <u>1983</u> Other _____ (circle one) <b>ZONE</b> <u>E</u> or <b>W</b>		
<b>STATE PLANE COORDINATES</b>		
<b>E</b> <u>801348 FT</u>	<b>N</b> <u>430156 FT</u>	
<b>LATITUDE:</b> <b>N DD MM SS.S</b> <u>N 25 30 58.9</u>	<b>LONGITUDE:</b> <b>W DD MM SS.S</b> <u>W 80 33 35.2</u>	
<b>VERTICAL DATUM:</b> <b>MSL</b> <u>1929</u> <u>1988</u> Other _____ (circle one)	<b>EL.</b> <u>4.369</u> <b>ft</b>	
<b>VERTICAL DATUM:</b> <b>MSL</b> <u>1929</u> <u>1988</u> Other _____ (circle one)	<b>EL.</b> <u>5.951</u> <b>ft</b>	
<b>CONTROL ACCURACY:</b> <b>HORIZONTAL</b> 1    2    3 <u>SUB-METER</u> (circle one) <b>VERTICAL</b> 1    2 <u>3</u>		
<b>DESCRIPTION</b>		
To Reach: APPROX. 100 FEET SOUTH OF THE INTERSECTION OF THE L-31N CANAL AND THE C-103 CANAL AND APPROX 31 FEET EAST OF THE EAST TOP OF BANK OF THE L-31N CANAL.		
Benchmarks Used: NGS – G 504, FCE 4514, FCE 4515,		
Notable Land marks:		



STUMP - V-DUMP  
 GET L31NT  
 (LUS 84)  
 P. 02. X. 01 10005  
 N. 15° 30' 58. 90511  
 W. 80° 55' 35. 17497

DUG A HOLE ABOUT 17 DEEP  
 SET A 3" I.P. IN CENTER OF HOLE  
 ABOUT 1' FROM SIDE. FILLED  
 PIPE W/ CONCRETE + HOLE. PLACED  
 A BRASS DISK (3) FLUSH W/ TOP OF  
 PIPE. STAMPED "L31NT 2008"  
 HOLE IS ABOUT 12" ROUND.



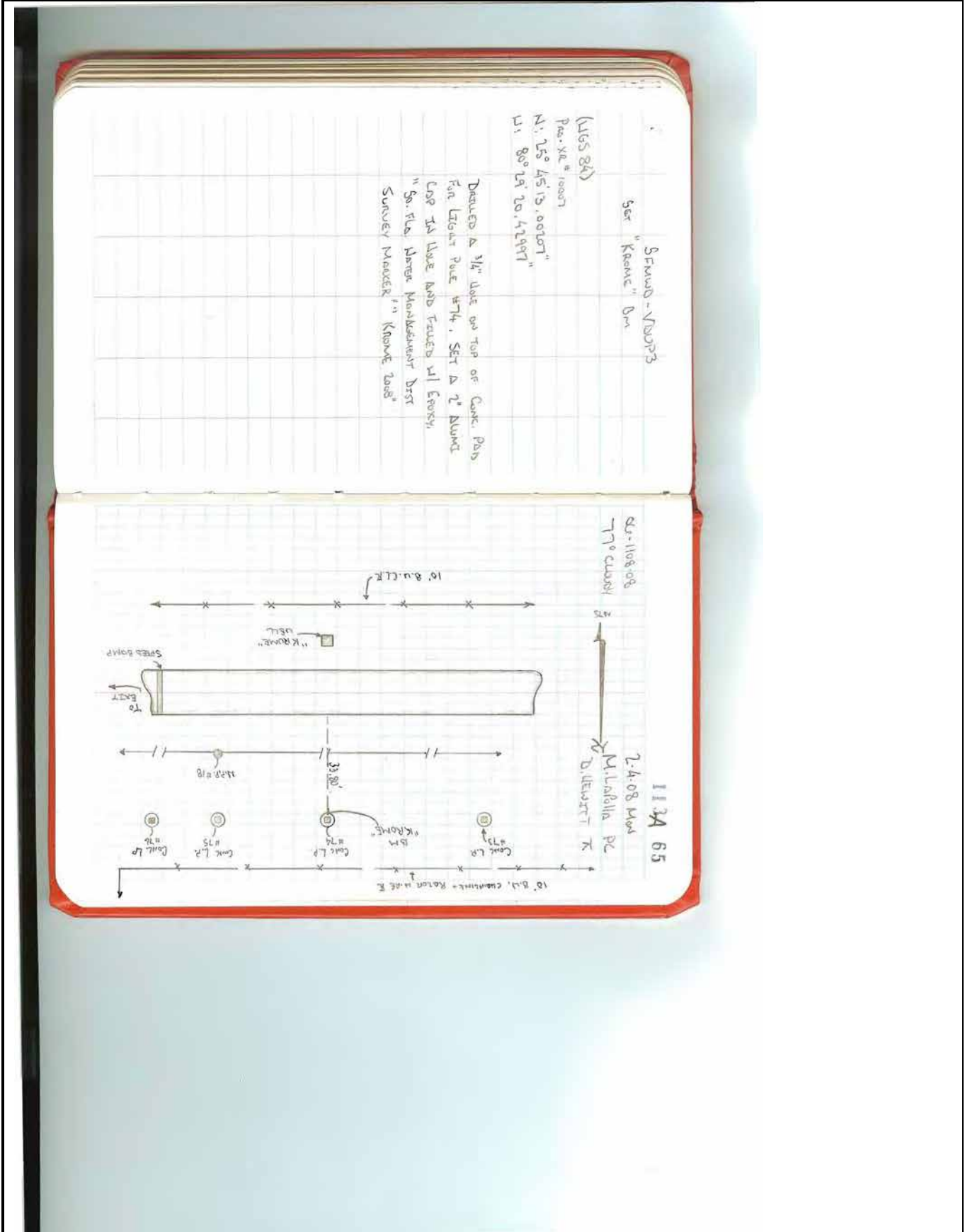
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Picture

**KROME BENCHMARK DATASHEET**

<b>COUNTY :</b> <u>MIAMI-DADE</u>	<b>PROJECT</b>	<b>DESIGNATION</b> <u>KROME</u>
<b>SECTION</b> <u>12</u>	<b>TOWNSHIP</b> <u>54 SOUTH</u>	<b>RANGE</b> <u>38 EAST</u>
<b>GEOGRAPHIC INDEX OF QUAD</b>		
Established by : <u>GCY, INC</u> _____ Recovered by	<b>NAME OF QUADRANGLE</b> <u>HIALEAH</u>	
<b>SURVEYOR</b> <u>ANDERSEN</u> <b>DATE:</b> <u>2-4-2008</u>	<b>FIELD BOOK</b> <u>113A</u> <b>PAGE</b> <u>65</u>	
<b>HORIZONTAL DATUM:</b> <u>1927</u> <u>1983</u> Other _____ (circle one) <b>ZONE</b> <u>E</u> or <b>W</b>		
<b>STATE PLANE COORDINATES</b>		
<b>E</b> <u>824352 FT</u>	<b>N</b> <u>516467 FT</u>	
<b>LATITUDE:</b> <b>N DD MM SS.S</b> <u>N 25 45 13.0</u>	<b>LONGITUDE:</b> <b>W DD MM SS.S</b> <u>W 80 29 20.4</u>	
<b>VERTICAL DATUM:</b> <b>MSL</b> <u>1929</u> <u>1988</u> Other _____ (circle one)	<b>EL.</b> <u>9.206</u> <b>ft</b>	
<b>VERTICAL DATUM:</b> <b>MSL</b> <u>1929</u> <u>1988</u> Other _____ (circle one)	<b>EL.</b> <u>10.730</u> <b>ft</b>	
<b>CONTROL ACCURACY:</b> <b>HORIZONTAL</b> 1    2    3 <u>SUB-METER</u> (circle one) <b>VERTICAL</b> 1    2 <u>3</u>		
<b>DESCRIPTION</b>		
<p>To Reach: FROM THE INTERSECTION OF U.S. 41 (TAMIAMI TRAIL) AND KROME AVE. GO SOUTH ON KROME AVE APPROX 2735 FEET TO THE ENTRANCE TO KROME DETENTION CENTER ON RIGHT; THENCE GO WEST ON THE ENTRANCE ROAD FOR APPROX. 2590 FEET TO STATION ON RIGHT IN BASE OF CONCRETE LIGHT POLE # 74 APPROX 34 FEET NORTH OF NORTH EDGE OF PAVEMENT. NOTE: STATION IS IN SECURE AREA, PERMISSION AND ESCORT MUST BE OBTAINED FROM IMMIGRATION AND CUSTOMS ENFORCEMENT (ICE).</p> <p>Benchmarks Used: NGS – U 626, G 119, C 237 RESET, 203</p> <p>Notable Land marks:</p>		



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Picture

VERTICAL DATUM UPDATE PROJECT

<b>COUNTY :</b> <u>MIAMI-DADE</u>	<b>PROJECT</b>	<b>DESIGNATION</b> <u>G 119</u>
<b>SECTION</b> <u>6</u>	<b>TOWNSHIP</b> <u>54 SOUTH</u>	<b>RANGE</b> <u>39 EAST</u>
<b>GEOGRAPHIC INDEX OF QUAD</b>		
Established by : <u>GCY, INC</u> _____ Recovered by _____	<b>NAME OF QUADRANGLE</b> <u>HIALEAH</u>	
<b>SURVEYOR</b> <u>ANDERSEN</u> <b>DATE:</b> <u>2-1-2008</u>	<b>FIELD BOOK</b> <u>113A</u> <b>PAGE</b> <u>63</u>	
<b>HORIZONTAL DATUM:</b> <u>1927</u> <u>1983</u> Other _____ (circle one) <b>ZONE</b> <u>E</u> or <b>W</b>		
<b>STATE PLANE COORDINATES</b>		
<b>E</b> <u>828196 FT</u>	<b>N</b> <u>519270 FT</u>	
<b>LATITUDE:</b> <b>N DD MM SS.S</b> <u>N 25 45 40.6</u>	<b>LONGITUDE:</b> <b>W DD MM SS.S</b> <u>W 80 28 38.3</u>	
<b>VERTICAL DATUM:</b> <b>MSL</b> <u>1929</u> <u>1988</u> Other _____ (circle one)	<b>EL.</b> <u>7.286</u> <b>ft</b>	
<b>VERTICAL DATUM:</b> <b>MSL</b> <u>1929</u> <u>1988</u> Other _____ (circle one)	<b>EL.</b> <u>8.810</u> <b>ft</b>	
<b>CONTROL ACCURACY:</b> <b>HORIZONTAL</b> 1    2    3 <u>SUB-METER</u> (circle one) <b>VERTICAL</b> 1    2 <u>3</u>		
<b>DESCRIPTION</b>		
<p>To Reach: TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 997 (KROME AVENUE, SW 177 AVENUE) AND U.S. HIGHWAY 41 (TAMIAMI TRAIL, SW 8TH ST) ABOUT 10.0 MI SOUTHWEST OF HIALEAH, GO EAST ON U.S. HIGHWAY 41 TAMIAMI TRAIL, SW 8TH ST) FOR 0.25 MI TO THE JUNCTION OF A PAVED ROAD ON THE LEFT, STRUCTURE G-119 AND THE MARK ON THE LEFT, SET FLUSH IN THE TOP OF NORTHWEST END OF A RETAINING WALL FOR WATER CONTROL STRUCTURE G-119 ABOUT LEVEL WITH U.S. HIGHWAY 41.</p> <p>Benchmarks Used: NGS – U 626, G 119</p> <p>Notable Land marks:</p>		



PIC #	AMB PICTURES	DESC
736	Looking Down @ Well G119 (East)	
737	Looking Down @ Ties for G119 (East)	
738	Looking Sid @ G119 (East)	
739	Looking N @ G119 (East)	
740	Looking SE @ Street Guard + G119 (East)	
741	Looking @ Top of Street @ G119 (East) S. Guard	
742	Looking S @ G119 Structure Well & Floor Guard SW	
743	Looking Down @ SW G119	
744	Looking "	
745	Looking NE @ G119 Well (East)	"structure well"
746	Looking W @ G119 Well (East)	"SW G119"
747	Looking @ Top of Street @ (East) Street Guard	
748	Looking Sid @ G119 Well + S. Guard (East)	
749	Looking S @ S. Guard + G119 Well (East)	
750	Looking Down @ G119 Well Ties (East)	
751	Looking E @ SW G119 Area	
752	"	
753	"	
754	"	
755	"	
756	"	
757	Looking Down @ SW G119	
758	NW @ Well G119 (East)	
759	NE @ Well G119 (East) from US 41	

Combo To Open Well Line is 6745

WEST BOUND US 41

Entrance to "Tram Canal Station"

1137 63  
 1-1-08 Fair  
 M. L. R. P.C.  
 D. H. R. K. 9

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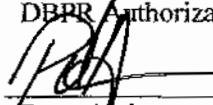


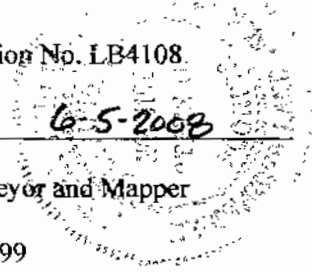
Picture

**SURVEYOR'S CERTIFICATION**

I hereby certify that this report of survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61-G17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

02/06/2008  
Date of Survey

By:  6-5-2008  
Peter Andersen  
Professional Surveyor and Mapper  
State of Florida  
Certificate No. 5199



SFWMD /  
SET SAV1

PRO-XR # 10000

N- 1079727.594

E- 892267.585

DUG A HOLE ROUGHLY 3' DEEP  
W/ A BELL SHAPED BOTTOM (12" x 14")  
TOP 10" ROUND W/ 2" ALUMS DISC  
3 1/2 BAGS OF CONCRETE (80lb)

" SO. FLA. WATER MANAGEMENT DIST.  
SURVEY MARKER " SAV1 2008 "

79° SUNNY

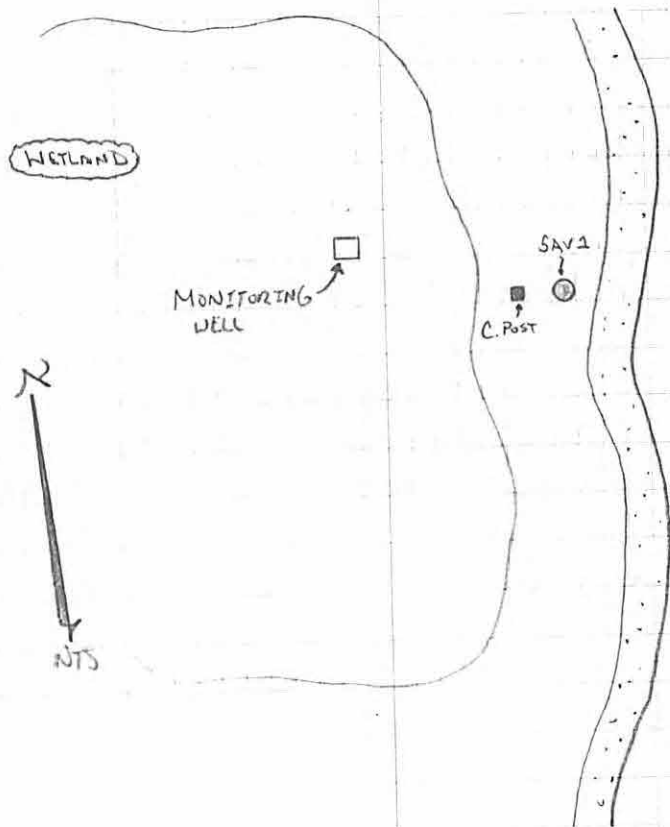
113/ 45

1-10-08 TAUWS

M. LABRITA PC

J. SONIA PC

D. HEWITT T



SFWMD  
SET C23FEC

PRO-XR # 10001  
N- 1044696.690  
E- 793114.156

DUG A HOLE ROUGHLY 3' DEEP  
BELL @ BOTTOM - 12"-14"  
TOP ROUND 12"  
USED 4 1/2 BAGS OF CONCRETE (80lbs)

"SO. FLA. WATER MANAGEMENT DIST.  
SURVEY MARKER" "C23FEC 2008"

113A 46

1-10-08 THURS

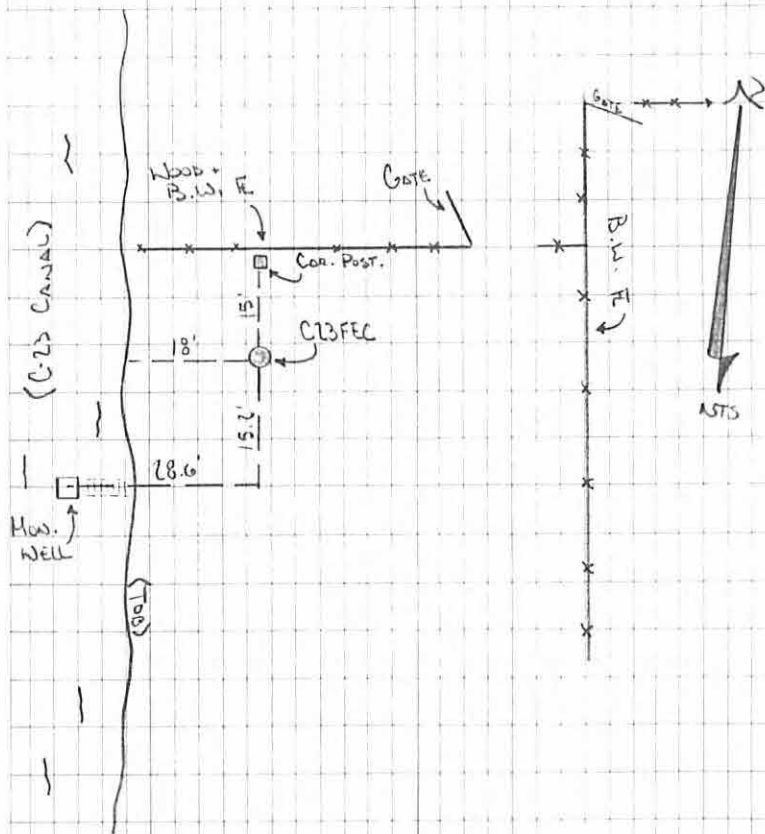
M. LaPolla PC

J. SONIA PC

D. HELITT TK

84° Sunny

(RRR TRACKS)



SFLWMD / VDUP3  
SET SAV6

(W6584)

PRO-XR# 10002

N.  $27^{\circ} 15' 10.79919$

W.  $80^{\circ} 15' 08.35469$

1001865.97

899082.48

DUG A HOLE ABOUT 3' DEEP

14" BELL @ BOTTOM

12" @ TOP

5 1/2 BAGS OF CONCRETE (806)

USED A 3 BRASS DISC, STAMPED:  
S.F.L. WATER MGT. DISTRICT  
SURVEY MARKER "STATION DESIGNATION  
SAV6 2008"

06-1108-08

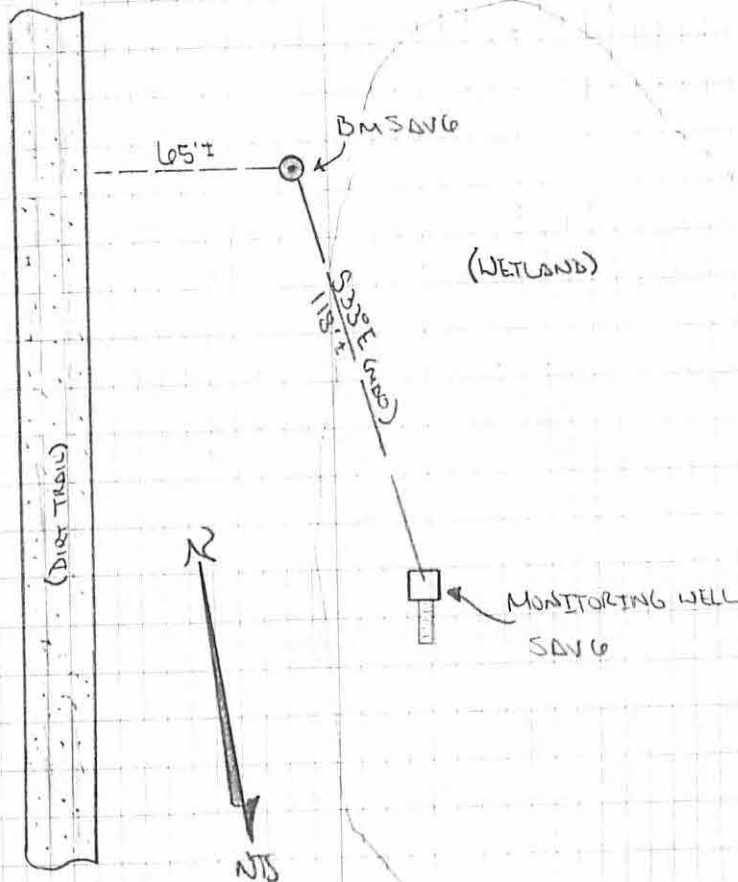
75° M. SUNNY

113A 47

1-14-08 Mon

M. LaPollo PC

D. HEWITT T



SFWMD / VDUP3

SET SAV 5

(WGS84)

PRO-XR # 10003

N. 27° 14' 55.82805"

10660354.9

W. 80° 15' 07.04768"

899209.5

DOG HOLE ABOUT 3' DEEP

14" BELL @ BOTTOM

12" @ TOP

USED 4 BAGS OF CONCRETE (80 LBS)

USED A 3 BRASS DISC STAMPED

"S. FL. WATER MGT. DISTRICT

SURVEY MARKER" STATION DESIGNATION

SAV 5 2008"

113/48

1-14-08 Mon

M. LaRilla PC

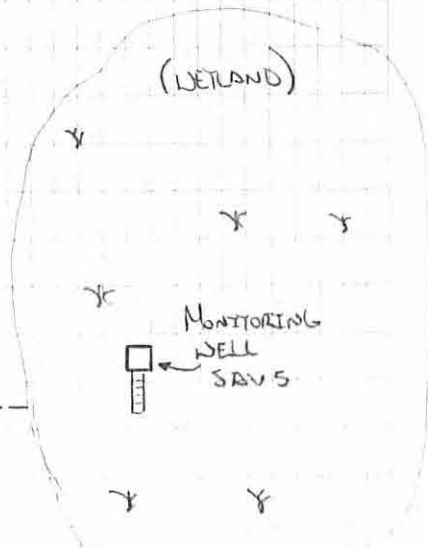
D. NEWITT K

06-1108-08

75° M. Sunny



BM SAV 5



SFWMD/VDUP3  
SET SAV4

(WGS84)

PRO-XR # 10004

N- 27° 41' 46.50183"

N- 80° 15' 00.77819"

1059416.5

899781.0

DOG & HOLE 3' DEEP

14" BELL @ BOTTOM

12" @ TOP

USED 3 1/2 BAGS OF CONCRETE (80LBS)

USED A .3 BRASS DISC, STAMPED:  
"S. FL WATER MGT DISTRICT  
SURVEY MARKER" "STATION DESIGNATION  
SAV4 2008"

1134 49

1-14-08 Mon

M. LABRITA PC

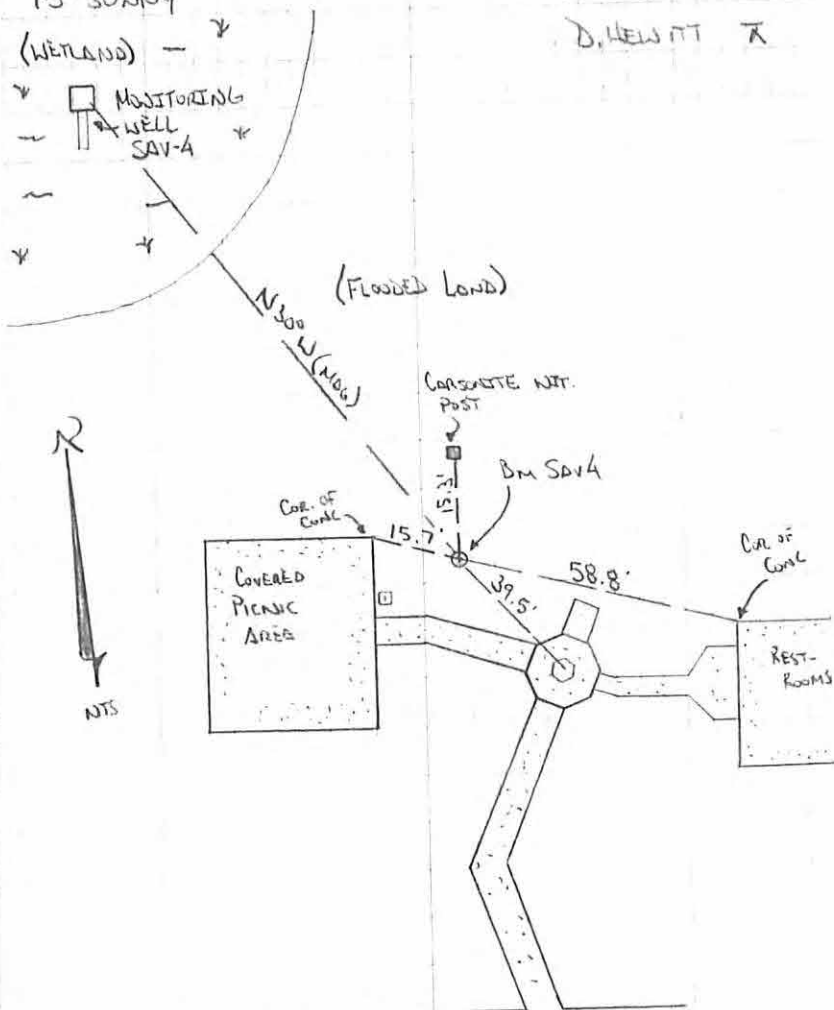
D. HEWITT K

06-1108-08

75° SUNNY

(WETLAND) -

MONITORING  
WELL  
SAV-A



(PARKING LOT)

SAVANNAH STATE PARK OFF OF JENSEN BEACH BLVD



STA	TOTAL DIST.	Grnd Ht.	Adj.
0	-	25.600'	
12	5818.2'	25.91'	
16	7000.3'	26.047'	26.048'
		Adj. NGVD EL=	27.494'
23	10761.1'	25.460'	
34	16256.1'	25.738'	

SEWMD / NDUP3  
BENCH RUN @ C23

PEG TEST: Cou DIFF: 3.5"

Ass Cou: 25.7"

113A 50

06-1108-08

57° Sunny/WINDY

1-15-08 TUES

M. LaRilla PC

D. HENLITT T

DESC  
 BM A544 NAVD88 EL= 25.600'  
 BM Z543 NAVD88 EL= 25.879'  
 FIELD = 25.91'  
 ERR = +.031  
 MTS = .052

BM C23 FEC PRO-XR# 10001  
 SEE PG 46 FOR MORE INFO

BM Y543 NAVD88 EL= 25.436'  
 FIELD = 25.460'  
 ERR = .024  
 MTS = .07

BM X543 NAVD88 EL= 25.738'  
 FIELD = 25.738'  
 ERR = 0.00' FLAT  
 MTS = .08

3.07 MILES

Z543 25.879'

Y543 25.436'

X543 25.738'

SEWARD / VDUPB

BENCH RUN TO SAV 1

PEG TEST: COLL DIFF = "5.5"

ABS COLL = 20.1" *NAVD88*

STA	TOTAL DIST	GR. HT	ADJ.
Ø	-	15.273'	
3	1401.7'	17.323'	

12	5299.4'	15.985'	15.986'
		ADJ. NGVD 29 = 17.469'	

26	11890.5'	28.786'	
----	----------	---------	--

31	14224.0'	23.093'	
----	----------	---------	--

OLC-1108-08  
65° KSM

BENCH  
BM A640 NAVD 88 = 15.273'

SAV 9 NAVD 88 EL = 17.324'  
FIELD = 17.323'  
ERR = .001  
MTS = .02

BENCH SAV 1 PRO-XR# 10000  
SEE PG 45 FOR MORE INFO

BENCH WEATHERINGTON NAVD 88 EL = 28.782'  
FIELD = 28.786'  
ERR = .004  
MTS = .075

BENCH J236 NAVD 88 EL = 23.091'  
FIELD = 23.093'  
ERR = .002  
MTS = .082

2.69 MILES  
SAV 9 - 17.324'  
WEATHERINGTON - 28.782'

J236 - 23.091'

113A 51

1-17-08 THURS  
M. LOBBIA PC  
D. HEWITT X

STA	TOTAL DIST	Gr. Ht.	Adj
0	-	17.122'	-
5	2146.7'	13.851'	

PEG TEST: Ads Coll = 21.7"

Coll DIFF = 1.6"

BENCH RUN TO SAV 4, 5, AND 6

SFNWD / VDUP3

113A 52

06-11-08-08

70° FOG

1-18-08 FRI

M. LaRilla PC

D. NEWITT TX

8	3231.5'	14.313'	14.312'	Bm SAV 4	Pro XR# 10004
		Adj. NGVD 29 = 15.785'		SEE PG 49	FOR MORE INFO.

16	5638.0'	14.281'	14.279'	Bm SAV 5	Pro XR# 10003
		Adj. NGVD 29 = 15.752'		SEE PG 48	FOR MORE INFO.

24	7738.6'	13.251'	13.250'	Bm SAV 6	Pro XR# 10002
		Adj. NGVD 29 = 14.723'		SEE PG 47	FOR MORE INFO.

36	11153.1'	17.123'		Bm GS 41	NAVD 88 EL = 17.122'
					FIELD = 17.123'
					ERR = .001
					MTS = .072

ADDED 1,473' TO Adj. NAVD 88 EL'S TO GET TO NGVD 29 EL.

2.11 MILES

GS 26 = 13.858'

SFWMD - VDUP3  
 RE-RUN BEACH TO C23 FEC  
 PEG TEST: COLL. DIFF: ".8"  
 ABS COLL 20.8"

06-1108-08  
 72° SUNNY

113A 53  
 1-29-08 TUES  
 M. LaRilla PC  
 D. HEWITT K

STA	TOTAL DIST	GRND HT	ADJ
Ø	-	25.738'	
10	5495.9'	25.470'	

DESC	EL
Bm X 543 NAVD 88	25.738'
Bm Y 543 NAVD 88	25.436'
FIELD	= 25.470'
ERR	= .034
MTS	= .05

18 9253.3'

26.05' 26.048'  
 Adj NGVD 29 EL= 27.494'

Bm C23 FEC PRO-XR# 10001  
 1<sup>st</sup> RUN THRU EL= 26.047'  
 2<sup>nd</sup> RUN THRU EL= 26.05'  
 ERR= .003  
 MTS= .066

21 10383.2'

25.915'

Bm Z 543 NAVD 88 EL= 25.879'  
 FIELD= 25.915'  
 ERR= .036  
 MTS= .07

33

16200.1'

25.601'

Bm A 544 NAVD 88 EL= 25.600'  
 FIELD = 25.601'  
 ERR = .001 MTS: .087

SFLWD-VDUP3  
SET L31NT

(WGS 84)

PRO-XRF 10005

N. 25° 30' 58.90517

430155.9

W. 80° 33' 35.17497

801347.9

DUG A HOLE ABOUT .7 DEEP  
SET A 3/4" I.P. IN CENTER OF HOLE  
ABOUT .1 DOWN FROM NB. FILLED  
PIPE W/ CONCRETE + HOLE. PLACED  
A BRASS DISK (.3) FLUSH W/ TOP OF  
PIPE. STAMPED "L31NT 2008"  
HOLE IS ABOUT 12" ROUND.

06-1108-08  
80° SUNDAY

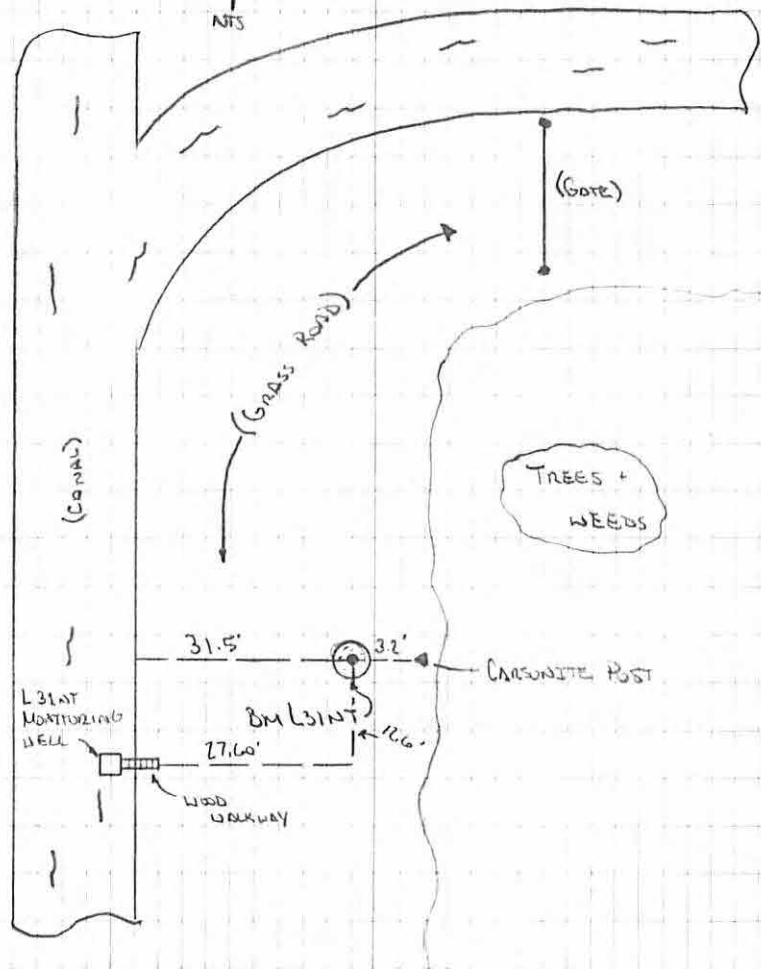


113A 54

1-31-08 THURS

M. LABRIS PC

D. HEWITT T



1131 55

SFUMD-VDUP3

BENCH RUN FOR L31NT

PEG TEST: COLL DIFF: 1.3"

ABS COLL: 22.0"

STN TOTAL DIST

Ø

11

5338.9'

NAVD88 NGVD29

GRND HT GRND HT

9.652' 11.234'

10.016' 11.598'

14

6542.0'

4.369' 5.951'

19

8728.8'

9.525' 11.107'

06-1108-08

75° N. SUNNY / WINDY

1-31 08 THURS

M. L. R. P. L. S. PC

D. WELSHITT T

DESK.

BM G504 NAVD 88 EL= 9.652'

BM FCE 4514 NAVD 88 EL= 10.015'

FIELD = 10.016'

Err = .003

MTS = .05

BM L31NT PRO-XR# 10005

SEE PG 54 FOR MORE INFO

BM FCE 4515 NAVD 88 EL= 9.524'

FIELD = 9.525'

Err = .001

MTS = .064

CONVERTED NAVD88 ELEVATIONS TO NGVD29.

ADDED 1.582' TO NAVD 88 ELEVATIONS.

FCE 4514 = 10.013'

FCE 4515 = 9.524'

ADD +1.582 NAVD 88

	SEWARD - VDUP3
	PICTURES @ L31NT
Pic. #	DESC
219	LOOKING EAST FROM LEVEE RD. "
220	"
221	LOOKING DOWN ON BM L31NT "
222	"
223	LOOKING EAST FROM E. TOP OF CONDL @ BM L31NT
224	LOOKING DOWN WELL L31NT @ TAG + REF MARK ☒
225	"
226	LOOKING WEST @ STAFF GAUGE + WELL
227	LOOKING SOUTH @ BM, STAFF GAUGE + WELL "
228	LOOKING NORTH @ "
229	LOOKING SW @ STAFF GAUGE
230	LOOKING EAST @ BM L31NT
231	LOOKING EAST @ BM L31NT FROM WELL
232	LOOKING INSIDE WELL "
233	"
234	LOOKING @ BM L31NT DISC
235	LOOKING W. @ ENT. GATE, WELL + BM IS JUST AROUND BEND TO THE LEFT

06-1108-08

75° CLOUDY

1134 56

1-31-08 THURS

M. L. P. H. D. P. C.

D. HEWITT T.

SFNMD-VDP

BENCH RUN TO L31NT WELL

+ STAFF GAUGE

NGVD 29

STG	+	LS	-	EL
0	5.622			5.951'
	5.523			
	5.425			
	(5.523)	11.474'	1.012	
			0.926	
			0.838	
1			(0.925)	10.549'
	0.888			
	0.801			
	0.714			
	(0.801)	11.35'	3.395	
			3.30	
			3.207	
2			(3.30)	8.049'
	3.213			
	3.117			
	3.022			
	(3.117)	11.166'	5.311	
			5.213	
			5.113	
3			(5.212')	5.954'

06-1108-08

75° M. CLOUDY

113A 57

1-31-08 THURS

M. LAPOLLA PC

D. HEWITT K

DESC

BM L31NT LISTED EL = 5.951'

SEE PG 54+55 FOR MORE INFO PROJ# 10005

☒ ON TOP OF PLYWOOD @ WELL L31NT  
↑  
MAGIC MARKER

8.00' MARK ON STAFF GAUGE BY L31NT WELL

BM L31NT ERR: .003



SFMMD - VDUP3  
OBTAIN TOP OF WATER ELEVATION  
INSIDE WELL L31NT.

MEASURED DOWN FROM "☒" REF.  
MARK INSIDE WELL TO TOP OF  
WATER. READ 6.98'.

113A 58

06-11-08-08  
75° N. SUNNY

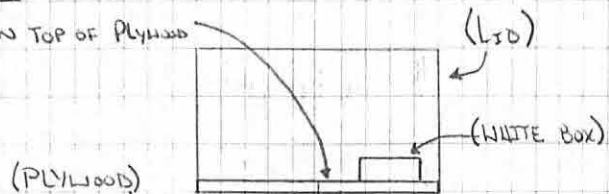
1-31-08 THURS  
M. LaBilla PC  
D. HEWITT T

(WELL L31NT)

NGVD 29 EL= 10.55'

☒ = REF. MARK SET

ON TOP OF PLYWOOD



TOP OF WATER EL= 3.57'

(TOP OF WATER)

LOOKING WEST.

SEWARD - VDUP 3

BENCH RUN TO G119

PEG TEST: COLL DIFF = 1.2"

ABS COLL = 23.2"

STA

TOTAL DIST

NAVD 88

NGVD 29

Gr. Ht.

Gr. Ht.

Ø

-

12.388'

-

06-11-08-08

75° SUNNY

113 59

2-1-08 FRI

M. LaPolla PC

D. HEWITT TP

DESC

Bm U626

NAVD 88 EL = 12.388'

3

1437.9'

7.274'

8.810'

Bm G119

NAVD 88 EL = 7.286'

FIELD = 7.274'

Err = -.012

NGVD 29 EL = 8.810'

HAD TO ADD 1.524' TO NAVD 88 EL TO GET  
NGVD 29 EL.

G119 - 7.286'

BENCH

PC

TP

290.00

STA	+	HT	-	NGVD 29 EL
	4.506			8.81'
	4.284			
	4.063			
	(4.284)	13.094'	1.387	
			1.186	
			0.985	
1			(1.186)	11.908'
	1.25			
	1.05			
	0.85			
	(1.05)	12.958'	6.18	
			6.05	
			5.914	
2			(6.048)	6.910'
	5.95			
	5.815			
	5.68			
	(5.815)	12.725'		

SEE NEXT PG.

1132 60

06-11-08-08

75° SUNNY

2-1-08 FRI

M. L. POLLO PC

D. HEDLITT RP

DESK

BM G119 NGVD 29 EL = 8.81'

PRO-XR# 10006

N: 25° 45' 40.61777 } WGS84

H: 80° 28' 38.46288 }

"☒" ON TOP ON PLASTIC COVER INSIDE OF  
WELL G119, WEST WELL.

T MARK ON STAFF GAUGE BY WEST G119 WELL

SFLMMD-VDUP3			
CONST. BENCH RUN TO WELLS (G119)			
+ STAFF GAUGES			
STA	+	HI	- NOV24 EL
	12.725'	12.725'	4.227
			3.989
			3.75
3			(3.988) 8.736'
	4.87		
	4.44		
	4.007		
	(4.439)	13.175'	1.308
			0.77
			0.232
4			(0.77) 12.405'
	1.187		
	0.65		
	0.11		
	(0.649)	13.054'	6.50
			6.14
			5.68
5			(6.14) 6.914'

06-1108-08

75° SUNNY

113A 61


2-1-08 FRI

M. LOBILLO PC

D. HEWITT TX

DESC

NW COR OF CONC PAD AROUND A 3' CMP W/ A WELL INSIDE. G119

"" ON TOP OF PLASTIC COVER INSIDE OF WELL G119. (EAST WELL)

7' MARK ON STAFF GAUGE BY EAST G119 WELL

SFWMID-VDUP3				
CONT. BENCH ROD				
STA	+	HI	-	EL
5	6.38			6.914'
	5.92			
	5.46			
	(5.92)	12.834'	4.493	
			4.02	
			3.55	
6			(4.021)	8.813'

113# 62

06-11-08-08

75° SUNNY

2.1.08 FAZ

M. LOBILLO PC

D. HEWITT RP

DESC

BM G119 LISTED NGVD 29 EL = 8.81'

FIELD = 8.813'

Err = .003

SFWMD - VDUP3

SKETCH OF AREA @ G119

AND PICTURES

PIC #	DESC
236	LOOKING DOWN @ WELL G119 (EAST)
237	LOOKING DOWN @ TAG FOR G119 (EAST)
238	LOOKING SW @ G119 (EAST)
239	LOOKING N. @ G119 (EAST)
240	LOOKING SE @ STAFF GAUGE + G119 (EAST)
241	LOOKING @ TOP OF WATER @ G119 (EAST) S. GAUGE
242	LOOKING S. @ G119 STILLING WELL @ FLOOD GATE JTL
243	LOOKING DOWN @ BM G119
244	LOOKING "
245	LOOKING NE @ G119 WELL (EAST) <sup>STANDING OVER</sup> BM G119 "
246	LOOKING W @ G119 WELL (WEST)
247	LOOKING @ TOP OF WATER @ (WEST) STAFF GAUGE
248	LOOKING SW @ G119 WELL + S. GAUGE (WEST)
249	LOOKING S. @ S. GAUGE + G119 WELL (WEST)
250	LOOKING DOWN @ G119 WELL TAG (WEST) "
251	"
252	LOOKING E. @ BM G119 AREA "
253	"
254	"
255	"
256	"
257	LOOKING DOWN @ BM G119
258	NW @ WELL G119 (WEST)
259	NE @ WELL G119 (WEST) } FROM US 41

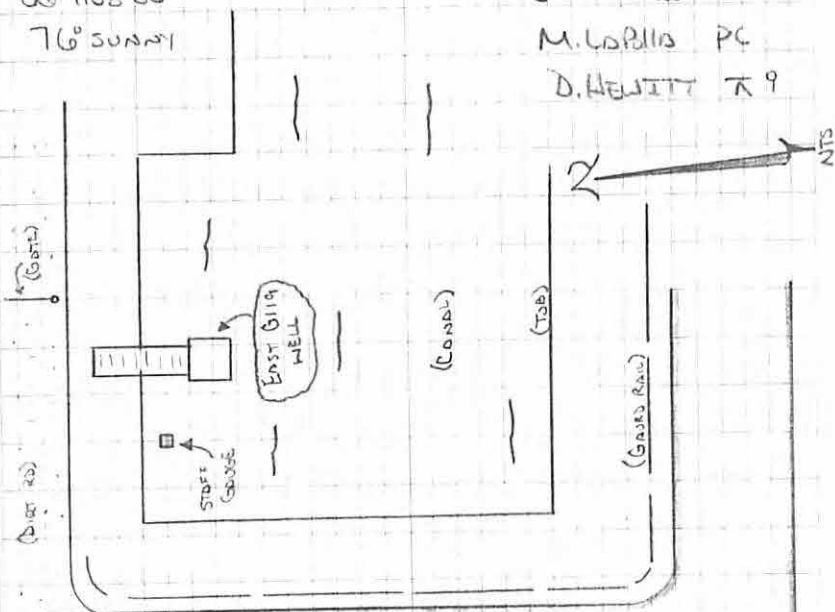
113 63

06-1108-08  
76° SUNNY

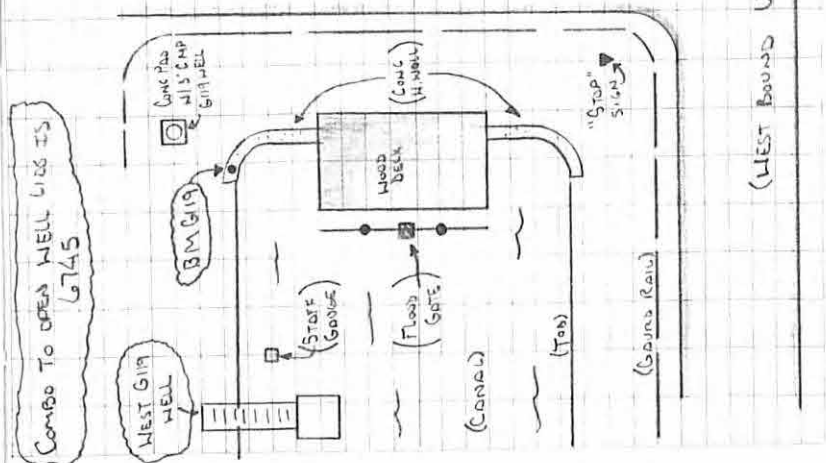
2-1-08 FRI

M. LOBBIS PC

D. HEWITT TR 9



ENTRANCE RD TO "TRAIL GRADES RANGE"



(WEST BOUND US 41)

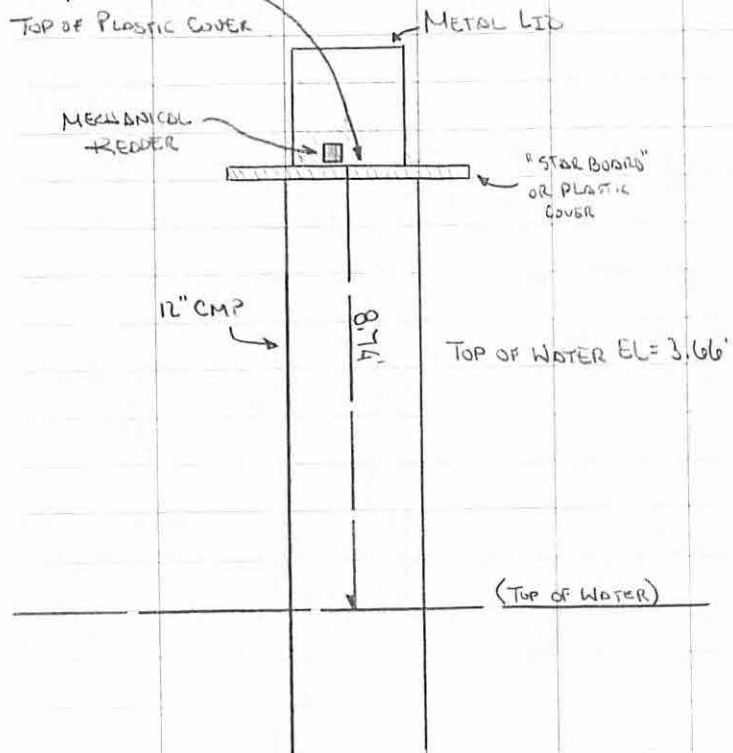
SEJMD-V0UP3

MEASURE DOWN TO TOP OF WATER

EAST WELL (G119)

NGVD 29 EL = 12.40'

☒ = REFF. MARK SET ON



MEASURED DOWN FROM ☒ MARK, TO TOP OF WATER.

113A 64

00-1108-08

78° SUNNY

2-1-08 FRI

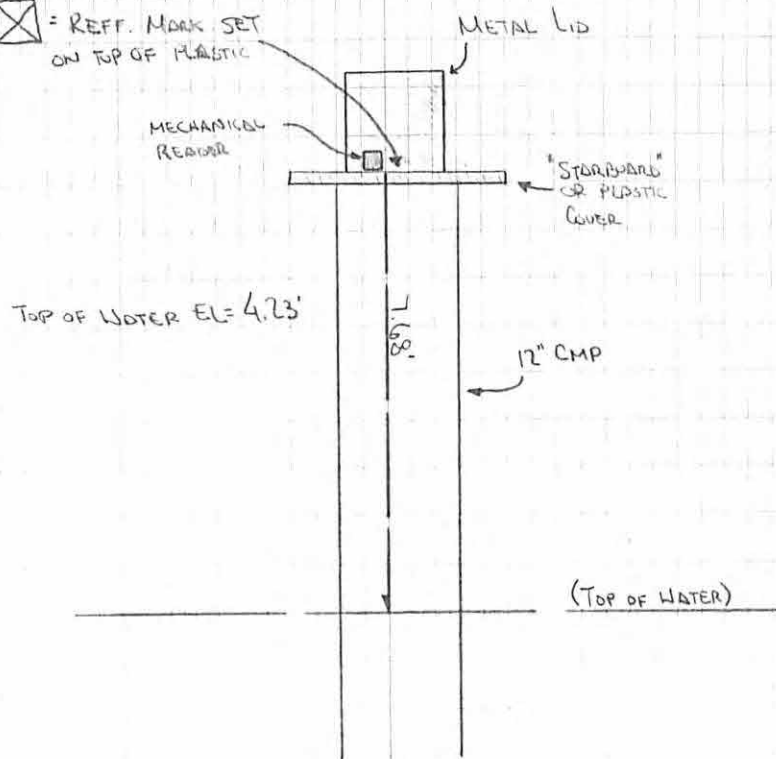
M. La Pello PC

D. HEWITT T

WEST WELL (G119)

NGVD 29 EL = 11.91'

☒ = REFF. MARK SET ON TOP OF PLASTIC



MEASURED DOWN FROM ☒ MARK, TO TOP OF WATER.

SFMWD - VDUP3  
SET "KROME" BM

(WGS 84)

PRO. XR # 10007

N: 25° 45' 13.00207"

516466.7

H: 80° 29' 20.42997"

824351.9

DRILLED A 3/4" HOLE ON TOP OF CONC. PAD  
FOR LIGHT POLE #74, SET A 2" ALUMI  
CONC IN HOLE AND FILLED W/ EPOXY.  
"SO. FLA. WATER MANAGEMENT DIST  
SURVEY MARKER " " KROME 2008"

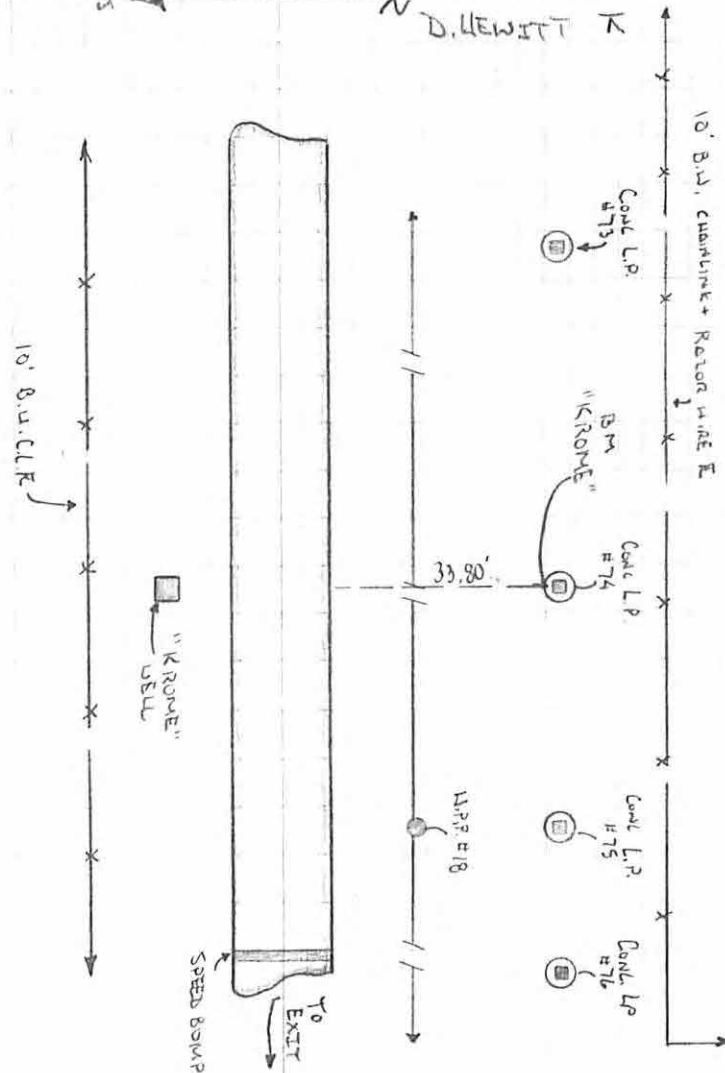
113A 65

06-11-08-08  
77° cloudy

2.4.08 Mon

M. LaPolla PC

D. HEWITT K





STA	TOTAL DIST	Gr. Ht	Gr. Ht
0	0	6.922'	
4	1950.8'	12.230'	
23	12552.1'	9.206'	10.73'
35	18164.0'	12.422'	
39	19618.6'	7.316'	

SEWMD - VDUPS  
 BENCH RUN FOR "KROME"  
 PEG TEST: COLL DIFF: -2.4"  
 ABS COLL: 20.8"

NAVD 88 NGVD 29

Gr. Ht Gr. Ht

6.922'

12.230'

9.206' 10.73'

12.422'

7.316'

113A 66

06-11-08-08

77° CLOUDY

2-4-08 MON

M. LARILLA PC

D. NEWITT K

DESC

Bm C257 RESET NAVD 88 EL = 6.922'

Bm 203 NAVD 88 EL = 12.204'

FIELD = 12.230'

Err = .026

MTS = .03

Bm "KROME" PRO-XR # 10007

SEE PG 65 FOR MORE INFO.

Bm U626 NAVD 88 EL = 12.388'

FIELD = 12.422

Err = .034

MTS =

Bm G119 LISTED NAVD 88 EL = 7.286'

FIELD = 7.316'

Err = .03

MTS = .096

ADD 1.524' TO NAVD 88 EL TO = NGVD 29 EL

3.71 m, 1.25

U626 = 12.388'

C257 RESET = 6.922'

203 = 12.204'

SFWMD-VDUP3

BEACH ROAD TO WELL "KROME"

STA	+ ft	LI	- ft	NGVD29 EL
0	3.826			10.73'
	3.678			
	3.529			
	(3.677)	14.407'	3.506	
			3.335	
1			3.163	
			(3.384)	11.073'
	3.207			
	3.035			
	2.863			
2	(3.035)	14.108'	3.524	
			3.376	
			3.228	
			(3.376)	10.732'

113A 67

06-1108-02

2-4-08 MON

75° M. SUNNY

M. LaBella PC

D. HEWITT T

DESC  
BM "KROME" LISTED NGVD EL = 10.73'

"☒" ON TOP OF PLYWOOD INSIDE WELL "KROME"

BM "KROME" LISTED = 10.73'  
FIELD = 10.732'  
Err = .002

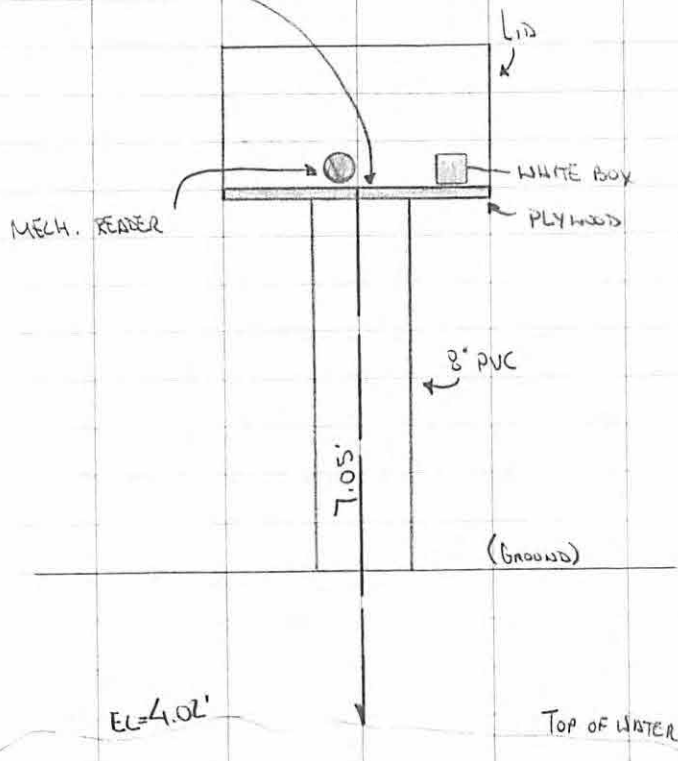
STUMD-VDUPS

MEASURE DOWN TO TOP OF WATER  
@ WELL "KROME"

NGVD 27 = 11.073'

☒ = REFF. MARK SET ON

TOP OF PLYWOOD



113A 68

06-1102-08

78° M. SUNNY

2-4-08 MON

M. LOBELLS PC

D. HEWITT K

PICTURES

Pic #

DESC

260 Looking Down @ BM "KROME"

261 " " "

262 " " "

263 Looking NE @ BM "KROME"

264 STANDING BEHIND WELL Looking N. @ BM "KROME"

265 Looking NW @ WELL + BM

266 Looking N. @ BM "KROME"

267 Looking E. @ WELL

268 STANDING BEHIND BM "KROME" Looking S. @ WELL

269 Looking Down @ WELL

270 " " TAG "

271 " " "

SFWMD-VDUP3  
 BENCH RUN TO "C23FEC" WELL


06-1108-08  
 78° SUNNY

113A 69

2-5-08 TUES  
 M. LaBolla PC  
 D. HEWITT TX

STA	+	HI	-	EL	NGVD29 EL
0					27.494'
				5.948	
				5.839	
				5.732	
				(5.840)	
	33.334		2.112		
			1.979		
			1.847		
1			(1.979)	31.355	
				1.975	
				1.844	
				1.710	
				(1.843)	
	33.198		5.813		
			5.703		
			5.595		
2			(5.704)	27.494	

DESC  
 BM C23FEC NGVD 29 EL = 27.494'

""  
 REF. MARK SET ON TOP OF PLYWOOD INSIDE  
 OF WELL "C23FEC"

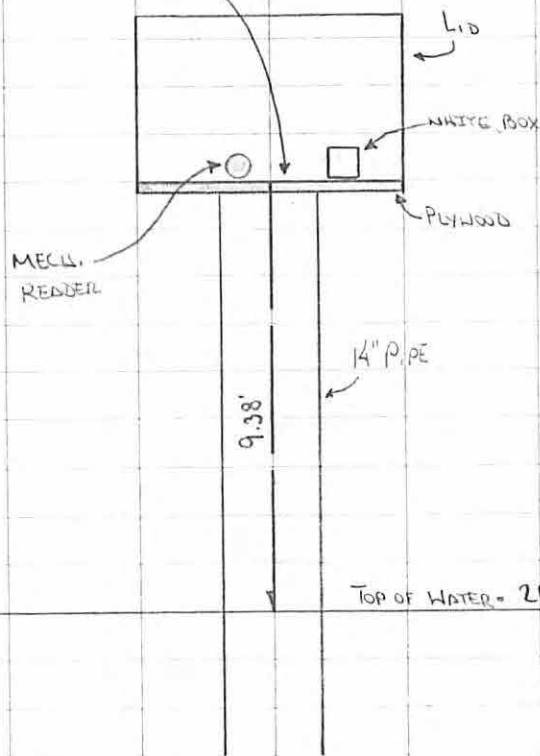
BM C23FEC LISTED = 27.494'  
 FIELD = 27.494'  
 ERR = -

SFWMD - VOUP3  
 MEASURE DOWN TO TOP OF WATER @  
 WELL C23FEC

NGVD 29 EL: 31.35'

☒ = REF. MARK SET ON TOP OF

PLYWOOD



TOP OF WATER = 21.97'

1136 70

01-11-08-08

2-5-08 TUES

75° SUNNY

M. LAPOLLA PC

D. HEWITT T

PICTURES @ C23FEC

PICT#

DESC

- 272 Looking Down @ BM C23FEC
- 273 " " "
- 274 " " "
- 275 Looking NW @ BM
- 276 Looking NW @ BM + WELL
- 277 Looking SW @ BM + WELL
- 278 Looking E Well + STAFF GAUGE
- 279 Looking @ STAFF GAUGE
- 280 Looking N. @ BM
- 281 Looking Down @ WELL
- 282 " " "
- 283 " " "
- 284 Looking S. @ BM + WELL

SFWMD VDUP3

BENCH RUN TO SAV1 WELL

STA	+	HI	-	NAVD88 ASS EL	NGVD29 ASS EL
0	5.694			15.986'	17.469'
	5.573				
	5.45				
	(5.572)	21.558'			
			3.293		
			2.70		
			2.105		
1			(2.699)	18.859'	20.342'
	3.13				
	2.546				
	1.95				
	(2.542)	21.401'			
			4.73		
			4.17		
			3.604		
2			(4.168)	17.233'	18.716'
	4.517				
	3.95				
	3.385				
	(3.950)	21.183'			
			5.317		
			5.198		
			5.074		
3			(5.196)	15.987'	

06-1108-08

77° SUNNY

1136 71

2-5-08 TUES

M. LAPILLA PL

D. HEWITT TA

DESC  
BM SAV 1 NAVD 88 EL = 15.986'

☒ = REF. MARK SET ON TOP OF PLYWOOD INSIDE OF WELL "SAV 1"

19" MARK ON STAFF GAUGE

Bm SAV 1

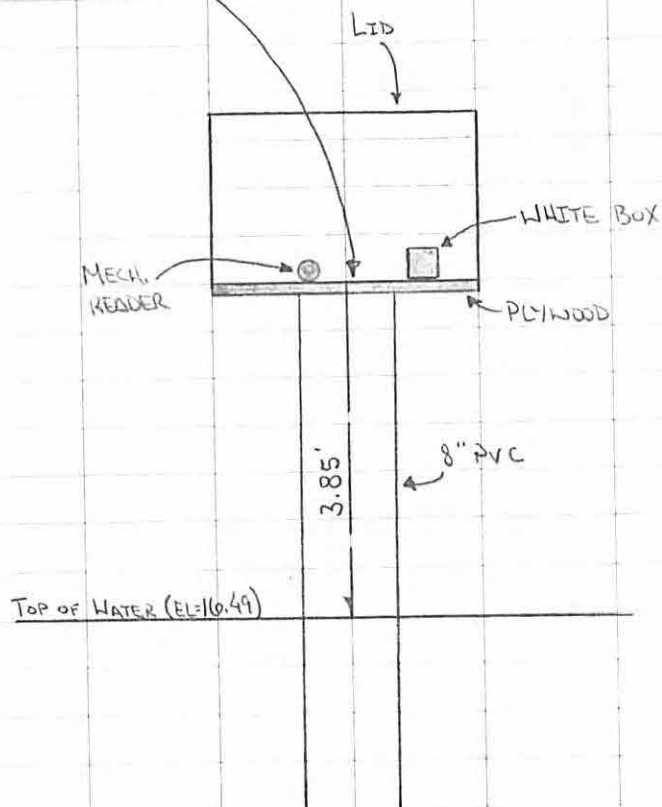
\* ADDED 1.483' TO NAVD 88 EL TO CONVERT TO NGVD 29 EL.

SFWMD - VDUP 3  
 MEASURE DOWN TO TOP OF WATER  
 @ WELL SAV 1

NGVD 29 EL = 20.34'

@  REFF. MARK SET

ON TOP OF PLYWOOD



113A 72

06-11-08-08

75° SUNNY

2-5-08 TUES

M. LaPolla PC

D. HEWITT T

PICTURES @ SAV 1

- 287 Looking Down @ Bm SAV 1
- 288 " " "
- 289 Looking NW @ Bm + WELL
- 290 " " "
- 291 " " "
- 292 Looking NORTH @ Bm SAV 1
- 293 STANDING OVER Bm SAV 1 Looking W. @ WELL
- 294 Looking WEST @ WELL + STAFF GAUGE
- 295 Looking S. @ Bm SAV 1
- 296 " " "
- 297 Looking DOWN INSIDE WELL SAV 1 \*
- 298 " " "
- 299 " " "
- 300 Looking EAST @ Bm SAV 1, STANDING @ SAV 1 WELL
- 301 Looking E STAFF GAUGE BY WELL SAV 1
- 302 " " "

SFHMD - VDUP3

113A 73

BENCH RUN TO SAV 4 WELL + STAFF GAUGE

05-11-08

2-5-08 TUES

77° SUNNY

M. LaPolla PC

D. HEWITT T

STA	+	HI	-	NGVD <sup>83</sup> EL
0	4.84			15.785'
	4.088			
	3.331			
	(4.086)	19.871'	2.346	
			1.67	
			1.00	
1			(1.672)	18.199'
	2.088			
	1.415			
	0.74			
	(1.411)	19.611'	3.525	
			2.883	
			2.24	
2			(2.882)	16.728'
	3.22			
	2.58			
	1.94			
	(2.58)	19.308'	4.271	
			3.521	
			2.768	
3			(3.52)	15.788'

DESC  
BM SAV 4 LISTED NGVD 89 EL= 15.785'



REF. MARK SET INSIDE WELL SAV 4 ON TOP  
OF PLYWOOD

16' MARK ON STAFF GAUGE

B.M. SAV 4 LISTED: 15.785'



SFLIND VDUP3

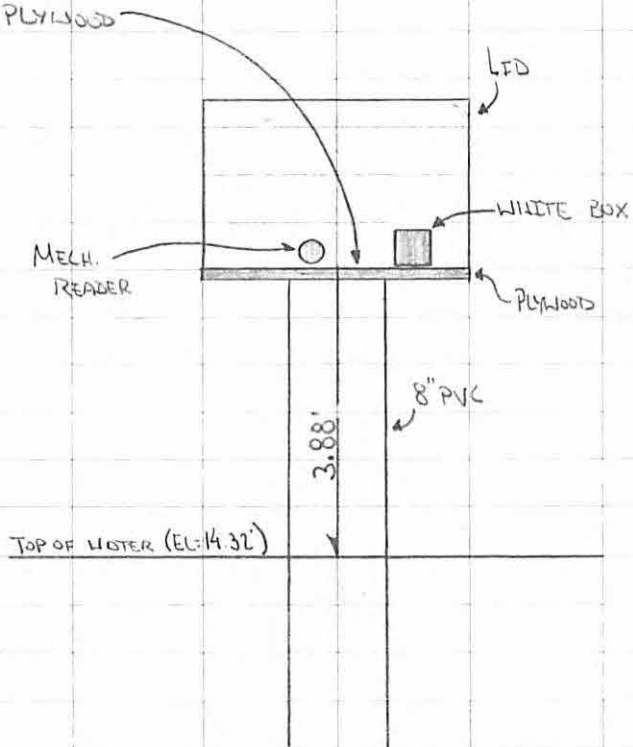
MEASURE DOWN TO TOP OF WATER @

WELL SAV 4

NGVD 29 EL = 18.20'

☒ = REFF MARK SET ON TOP

OF PLYWOOD



TOP OF WATER (EL: 14.32')

113A 74

06-11-08

TP COUNTY

2-5-08 TUES

M. LAPOLLO PC

D. HEWITT X

PICTURES @ SAV 4

- 303 Looking Down @ BM SAV 4
- 304 "
- 305 Looking N. @ BM SAV 4
- 306 Looking N. @ BM SAV 4
- 307 Looking E. @ BM SAV 4
- 308 Standing @ BM SAV 4, Looking @ WELL SAV 4
- 309 "
- 310 Looking NW @ BM + WELL SAV 4
- 311 Looking INSIDE WELL SAV 4
- 312 "
- 313 "
- 314 Looking SE @ BM SAV 4 AREA, Standing @ WELL SAV 4
- 315 "
- 316 Looking @ STAFF GAUGE BY WELL SAV 4
- 317-318 "
- 319 Looking @ WELL + STAFF GAUGE
- 320 Looking S. @ BM SAV 4 AREA
- 321 Looking SE @ BM SAV 4
- 322 "

SFMMD - VDUP3  
 BENCH RUN TO SAVG & STAFF GAUGE

STA	+	HI	-	NGVD29 EL
Ø	5.004			14.723'
	4.703			
	4.402			
	(4.703)	19.426'	0.70	
			0.41	
			0.118	
1			(0.409)	19.016'
	0.62			
	0.33			
	0.04			
	(0.33)	19.346'	2.93	
			2.62	
			2.31	
2			(2.62)	16.726'
	2.77			
	2.46			
	2.15			
	(2.46)	19.186'	4.765	
			4.464	
			4.163	
3			(4.464)	14.722'

113A 75

06-11-08-08

75° SUNNY

2-6-08 WED

M. LABILLA PC

D. HEWITT R

DESC  
 BM SAVG NGVD 29 = 14.723'



REF. MARK SET INSIDE WELL SAVG ON  
 TOP OF PLYWOOD

16' MARK ON STAFF GAUGE

BM SAVG Listed = 14.723' Error = 7.001

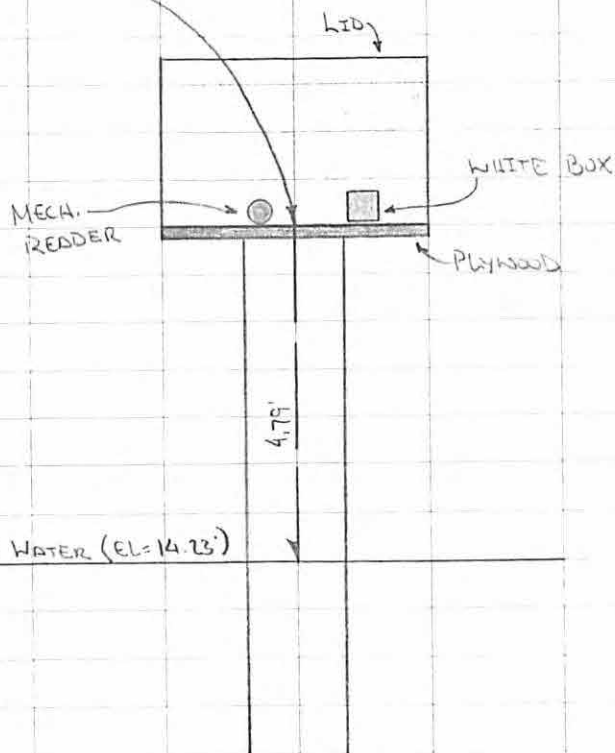
SFWMD - VDUP3

MEASURE DOWN TO TOP OF WATER @  
WELL SAV 6

NGVD 29 EL = 19.02'

☒ = REFF. MARK SET ON TOP

OF PLYWOOD



113A 76

06-11-08-08

75° SUNNY

2-6-08 WED

M. LAPOLLA PC

D. HEWITT TX

PICTURES

PIC #

DESC

- | PIC # | DESC                                       |
|-------|--|
| 331   | LOOKING DOWN INSIDE WELL SAV 6             |
| 332   | " " "                                      |
| 333   | " " "                                      |
| 334   | STANDING @ WELL LOOKING NW @ BM SAV 6 AREA |
| 335   | " " SE                                     |
| 336   | LOOKING @ STAFF GAUGE                      |
| 337   | " " "                                      |
| 338   | LOOKING @ STAFF GAUGE + WELL               |
| 339   | STANDING @ BM SAV 6, LOOKING SE @ WELL     |
| 340   | LOOKING DOWN @ BM SAV 6                    |
| 341   | LOOKING N. @ BM SAV 6                      |
| 342   | LOOKING E @ BM SAV 6                       |
| 343   | LOOKING W. @ BM SAV 6                      |
| 344   | LOOKING DOWN @ BM SAV 6                    |
| 345   | " " "                                      |

SFWM - VDUP3				
BENCH RUN TO SAV 5 + STAFF GAUGE				
STA	+	HI	-	NGVD 29 EL
Ø	4.804			15.752'
	4.67			
	4.534			
	(4.669)	20.421'	1.828	
			1.462	
			1.099	
1			(1.463)	18.958'
	1.67			
	1.303			
	0.94			
	(1.304)	20.262'	3.89	
			3.541	
			3.193	
2			(3.541)	16.721'
	3.668			
	3.318			
	2.968			
	(3.318)	20.039'	4.422	
			4.288	
			4.153	
3			(4.287)	15.751'

06-11-08-08

75° SUNNY

113A 77

2-6-08 WED

M. LaRolle PC

D. HEWITT T

DESC

BM SAV 5 NGVD 29 EL = 15.752'



REF MARK SET INSIDE WELL SAV 5 ON TOP  
OF PLYWOOD

16' MARK ON STAFF GAUGE

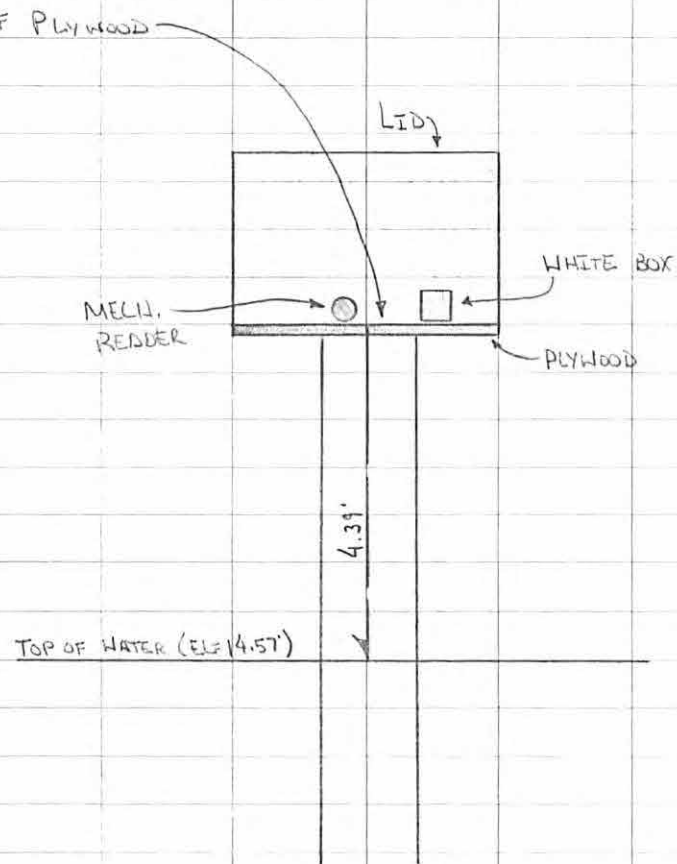
Bm SAV 5 LISTED = 15.752' ERR = .001

SFWMD VDUP3  
 MEASURE DOWN TO TOP OF WATER @  
 WELL SAV 5

NGVD 29 EL = 18.96'

☒ = REFF. MARK SET ON TOP

OF PLYWOOD



113A 78

08-11-08-08

2-6-08 WED

75° SUNNY

M. LABILLA PC

D. HEWITT T

PICTURES

PICTURE

DESC

- | PICTURE | DESC   |
|---------|--|
| 346     | LOOKING DOWN @ BM SAV 5                          |
| 347     | " " " "  |
| 348     | " " " "  |
| 349     | STANDING @ BM SAV 5, LOOKING E. @ WELL SAV 5     |
| 350     | LOOKING NE @ WELL SAV 5                          |
| 351     | LOOKING DOWN INSIDE WELL SAV 5                   |
| 352     | " " " "  |
| 353     | " " " "  |
| 354     | LOOKING @ STAFF GAUGE + WELL " "                 |
| 355     | " " " "  |
| 356     | " " " "  |
| 357     | STANDING @ WELL SAV 5, LOOKING W. @ BM SAV 5 " " |
| 358     | " " " "  |
| 359     | LOOKING NE @ WELL SAV 5                          |
| 360     | LOOKING E @ WELL + BM SAV 5                      |

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26219 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained  
 Mark ID SSN PID Designation Geopotential Elevation Codes  
 1402 0905 AJ7746 C 237 RESET 2.5326 2.5843  
 Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained  
 Mark ID SSN PID Designation Geopotential Elevation Codes  
 805 0026 AJ8367 203 4.1109 4.1948

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8367 *****
AJ8367 DESIGNATION - 203
AJ8367 PID - AJ8367
AJ8367 STATE/COUNTY- FL/MIAMI-DADE
AJ8367 COUNTRY - US
AJ8367 USGS QUAD - HIALEAH SW (1988)
AJ8367
AJ8367 *CURRENT SURVEY CONTROL
AJ8367
AJ8367* NAD 83(1986) POSITION- 25 45 39. (N) 080 29 51. (W) SCALED
AJ8367* NAVD 88 ORTHO HEIGHT - 3.720 (meters) 12.20 (feet) ADJUSTED
AJ8367
AJ8367 GEOID HEIGHT - -24.680 (meters) GEOID12B
AJ8367 DYNAMIC HEIGHT - 3.714 (meters) 12.19 (feet) COMP
AJ8367 MODELED GRAVITY - 979,030.3 (mgal) NAVD 88
AJ8367
AJ8367 VERT ORDER - FIRST CLASS II
AJ8367
AJ8367.The horizontal coordinates were scaled from a topographic map and have
AJ8367.an estimated accuracy of +/- 6 seconds.
AJ8367.
AJ8367.The orthometric height was determined by differential leveling and
AJ8367.adjusted by the NATIONAL GEODETIC SURVEY
AJ8367.in June 2002.
AJ8367
AJ8367.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8367.GEOID12B height accuracy estimate available here.
AJ8367
AJ8367.Photographs are available for this station.
AJ8367
AJ8367.The dynamic height is computed by dividing the NAVD 88
AJ8367.geopotential number by the normal gravity value computed on the
AJ8367.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8367.degrees latitude (g = 980.6199 gals.).
AJ8367
AJ8367.The modeled gravity was interpolated from observed gravity values.
AJ8367
AJ8367; North East Units Estimated Accuracy
AJ8367;SPC FL E - 158,220. 250,410. MT (+/- 180 meters Scaled)
AJ8367
AJ8367 SUPERSEDED SURVEY CONTROL
AJ8367
AJ8367.No superseded survey control is available for this station.
AJ8367
AJ8367_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ503492(NAD 83)
AJ8367
AJ8367_MARKER: DD = SURVEY DISK
AJ8367_SETTING: 36 = SET IN A MASSIVE STRUCTURE
AJ8367_SP_SET: BRIDGE GUARDRAIL
AJ8367_STAMPING: 203
AJ8367_MARK LOGO: FLDT
AJ8367_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8367_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ8367_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8367+SATELLITE: SATELLITE OBSERVATIONS - March 17, 2005
    
```

AJ8367				
AJ8367	HISTORY	- Date	Condition	Report By
AJ8367	HISTORY	- UNK	MONUMENTED	FLDT
AJ8367	HISTORY	- 20010103	GOOD	FLDEP
AJ8367	HISTORY	- 20050317	GOOD	FLDEP
AJ8367	HISTORY	- 20080204	GOOD	GCYI
AJ8367	HISTORY	- 20090722	GOOD	DCPW

AJ8367

AJ8367

## STATION DESCRIPTION

AJ8367

AJ8367'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)

AJ8367'THE MARK IS ABOUT 18.2 MI (29.3 KM) NORTH OF HOMESTEAD, 11.0 MI (17.7

AJ8367'KM) SOUTHWEST OF HIALEAH, 10.0 MI (16.1 KM) NORTHWEST OF KENDALL, IN

AJ8367'SECTION 12, TOWNSHIP 54 SOUTH, RANGE 38 EAST. TO REACH THE MARK FROM

AJ8367'THE JUNCTION OF STATE ROAD 997 (KROME AVENUE SW 177 AVENUE) AND U.S.

AJ8367'HIGHWAY 41 (TAMIAMI TRAIL SW 8TH ST) ABOUT 10.0 MI (16.1 KM) SOUTHWEST

AJ8367'OF HIALEAH, GO WEST ON U.S. HIGHWAY 41 (TAMIAMI TRAIL SW 8TH ST) FOR

AJ8367'1.0 TO THE EAST END OF BRIDGE NUMBER 8705851979 AND THE MARK ON THE

AJ8367'LEFT, SET IN TOP OF THE SOUTHEAST BRIDGE RAIL OVER THE ABUTMENT, 2.6

AJ8367'FT (0.8 M) ABOVE THE LEVEL OF U.S. HIGHWAY 41. LOCATED 24.0 FT (7.3

AJ8367'M) SOUTH OF THE APPROXIMATE CENTERLINE OF U.S. HIGHWAY 41 AND 1.1 FT

AJ8367'(0.3 M) WEST OF THE EAST END OF BRIDGE NUMBER 870585 1979 OVER CANAL

AJ8367'31N.

AJ8367

## STATION RECOVERY (2005)

AJ8367

AJ8367'RECOVERY NOTE BY FL DEPT OF ENV PRO 2005 (JLM)

AJ8367'RECOVERED AS DESCRIBED.

AJ8367

## STATION RECOVERY (2008)

AJ8367

AJ8367'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

AJ8367'RECOVERED IN GOOD CONDITION.

AJ8367

## STATION RECOVERY (2009)

AJ8367

AJ8367'RECOVERY NOTE BY DOUGLAS COUNTY PUBLIC WORKS 2009 (LER)

AJ8367'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26245 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated  
 & constrained

# The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
1806	3159	AJ8574	X 543	8.1186	8.2843	
1807	3160	AJ8575	Y 543	8.0291	8.1930	
1808	3161	AJ8576	Z 543	8.1620	8.3286	
1809	3162	AJ8577	A 544	8.0789	8.2438	

See file [dsdata.txt](#) for more information about t

PROGRAM = datasheet95, VERSION = 8.8

1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015

AJ8577 \*\*\*\*\*

AJ8577 DESIGNATION - A 544

AJ8577 PID - AJ8577

AJ8577 STATE/COUNTY- FL/ST LUCIE

AJ8577 COUNTRY - US

AJ8577 USGS QUAD - BLUEFIELD (1970)

AJ8577

AJ8577 \*CURRENT SURVEY CONTROL

AJ8577

AJ8577\* NAD 83(1986) POSITION- 27 13 33. (N) 080 34 46. (W) SCALED

AJ8577\* [NAVD 88](#) ORTHO HEIGHT - 7.803 (meters) 25.60 (feet) ADJUSTED

AJ8577

AJ8577 GEOID HEIGHT - -26.988 (meters) GEOID12B

AJ8577 DYNAMIC HEIGHT - 7.790 (meters) 25.56 (feet) COMP

AJ8577 MODELED GRAVITY - 979,102.8 (mgal) NAVD 88

AJ8577

AJ8577 VERT ORDER - FIRST CLASS II

AJ8577

AJ8577.The horizontal coordinates were scaled from a topographic map and have

AJ8577.an estimated accuracy of +/- 6 seconds.

AJ8577.

AJ8577.The orthometric height was determined by differential leveling and

AJ8577.adjusted by the NATIONAL GEODETIC SURVEY

AJ8577.in May 2002.

AJ8577

AJ8577.Significant digits in the geoid height do not necessarily reflect accuracy.

AJ8577.GEOID12B height accuracy estimate available [here](#).

AJ8577

AJ8577.The dynamic height is computed by dividing the NAVD 88

AJ8577.geopotential number by the normal gravity value computed on the

AJ8577.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ8577.degrees latitude (g = 980.6199 gals.).

AJ8577

AJ8577.The modeled gravity was interpolated from observed gravity values.

AJ8577

AJ8577; North East Units Estimated Accuracy

AJ8577;SPC FL E - 320,500. 241,660. MT (+/- 180 meters Scaled)

AJ8577

AJ8577 SUPERSEDED SURVEY CONTROL

AJ8577

AJ8577.No superseded survey control is available for this station.

AJ8577

AJ8577\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL416115(NAD 83)

AJ8577

AJ8577\_MARKER: DD = SURVEY DISK

AJ8577\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AJ8577\_STAMPING: A 544 2001 CERP

AJ8577\_MARK LOGO: USE

AJ8577\_PROJECTION: RECESSED 8 CENTIMETERS

AJ8577\_MAGNETIC: O = OTHER; SEE DESCRIPTION

AJ8577\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AJ8577+STABILITY: SURFACE MOTION

AJ8577\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ8577+SATELLITE: SATELLITE OBSERVATIONS - January 29, 2008

AJ8577



AJ8577	HISTORY	- Date	Condition	Report By
AJ8577	HISTORY	- 20010919	MONUMENTED	FOST
AJ8577	HISTORY	- 20080129	GOOD	GCYI

AJ8577

AJ8577

## STATION DESCRIPTION

AJ8577

AJ8577'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ8577'THE MONUMENT IS LOCATED 15.7 MILES (25.27 KM) NORTH OF INDIANTOWN, FL.

AJ8577'AND 19.7 MILES (31.67 KM)

AJ8577'NORTHWEST OF PALM CITY, FL., SECTION 30, TOWNSHIP 37 SOUTH, RANGE 38

AJ8577'EAST.

AJ8577'

AJ8577'OWNERSHIP IS SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

AJ8577'

AJ8577'TO REACH THE MONUMENT FROM THE INTERSECTION OF COUNTY ROAD 714 AND

AJ8577'COUNTY ROAD 609, 11.1 MILES

AJ8577'(17.86 KM) WEST OF THE JUNCTION OF THE FLORIDA TURNPIKE, STATE ROAD

AJ8577'714 AND COUNTY ROAD 714 IN

AJ8577'PALM CITY FL., GO NORTH ON COUNTY ROAD 609 FOR 3.0 MILES (4.83 KM) TO

AJ8577'THE NORTH END OF BRIDGE NO.

AJ8577'940026 AND TURN LEFT ONTO CANAL/ORANGE GROVE ACCESS ROAD AND GO WEST

AJ8577'0.05 MILES (0.08 KM) TO A

AJ8577'LOCKED GATE SOUTH OF CANAL LEVEE AND NORTH OF CANAL. CONTINUE WEST

AJ8577'ALONG ROADWAY AREA ON

AJ8577'THE NORTH SIDE OF CANAL 6.0 MILES (9.66 KM) TO A NORTHEAST/SOUTHWEST

AJ8577'RUNNING RAILROAD CROSSING

AJ8577'WITH LOCKED GATES ON BOTH SIDES. THENCE CONTINUE NORTH 1.30 MILES

AJ8577'(2.09 KM) ALONG ROADWAY AREA

AJ8577'ON EAST SIDE OF CANAL TO MONUMENT LOCATION.

AJ8577'

AJ8577'THE MONUMENT IS 17.0 FEET (5.18 M) EAST OF THE EAST TOP BANK OF COUNTY

AJ8577'LINE CANAL, 28.5 FEET (8.69 M)

AJ8577'WEST OF BARBED WIRE FENCELINE, 29.0 FEET (8.84 M) WEST OF TOE OF CANAL

AJ8577'LEVEE AND 28.0 FEET (8.53 M)

AJ8577'WEST OF CARSONITE WITNESS POST. NOTE A MAGNET WAS BURIED NEARBY AT AN

AJ8577'UNSPECIFIED POSITION.

AJ8577'FOR KEY, CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT, WEST PALM

AJ8577'BEACH, FL. AT PHONE

AJ8577'NUMBER (407) 686-8800.

AJ8577'

AJ8577

AJ8577

## STATION RECOVERY (2008)

AJ8577

AJ8577'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MEL)

AJ8577'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,  Retrieval Date = DECEMBER 7, 2015
DK3571 *****
DK3571 DESIGNATION - A 640
DK3571 PID - DK3571
DK3571 STATE/COUNTY- FL/ST LUCIE
DK3571 COUNTRY - US
DK3571 USGS QUAD - ANKONA (1983)
DK3571
DK3571 *CURRENT SURVEY CONTROL
DK3571
DK3571* NAD 83(1986) POSITION- 27 17 36. (N) 080 15 56. (W) SCALED
DK3571* NAVD 88 ORTHO HEIGHT - 4.655 (meters) 15.27 (feet) ADJUSTED
DK3571
DK3571 GEOID HEIGHT - -27.541 (meters) GEOID12B
DK3571 DYNAMIC HEIGHT - 4.648 (meters) 15.25 (feet) COMP
DK3571 MODELED GRAVITY - 979,130.5 (mgal) NAVD 88
DK3571
DK3571 VERT ORDER - SECOND CLASS II
DK3571
DK3571.The horizontal coordinates were scaled from a topographic map and have
DK3571.an estimated accuracy of +/- 6 seconds.
DK3571.
DK3571.The orthometric height was determined by differential leveling and
DK3571.adjusted by the NATIONAL GEODETIC SURVEY
DK3571.in November 2008.
DK3571
DK3571.No vertical observational check was made to the station.
DK3571
DK3571.Significant digits in the geoid height do not necessarily reflect accuracy.
DK3571.GEOID12B height accuracy estimate available here.
DK3571
DK3571.The dynamic height is computed by dividing the NAVD 88
DK3571.geopotential number by the normal gravity value computed on the
DK3571.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DK3571.degrees latitude (g = 980.6199 gals.).
DK3571
DK3571.The modeled gravity was interpolated from observed gravity values.
DK3571
DK3571;
DK3571;SPC FL E - North East Units Estimated Accuracy
DK3571; 328,120. 272,700. MT (+/- 180 meters Scaled)
DK3571
DK3571 SUPERSEDED SURVEY CONTROL
DK3571
DK3571.No superseded survey control is available for this station.
DK3571
DK3571_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL726191(NAD 83)
DK3571
DK3571_MARKER: DD = SURVEY DISK
DK3571_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DK3571_STAMPING: A 640 2005
DK3571_MARK LOGO: SFLWMD
DK3571_PROJECTION: FLUSH
DK3571_MAGNETIC: O = OTHER; SEE DESCRIPTION
DK3571_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DK3571+STABILITY: SURFACE MOTION
DK3571_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

```

DK3571+SATELLITE: SATELLITE OBSERVATIONS - October 16, 2011

DK3571

DK3571	HISTORY	- Date	Condition	Report By
DK3571	HISTORY	- 20050817	MONUMENTED	GCYI
DK3571	HISTORY	- 20111016	GOOD	GEOCAC

DK3571

DK3571

DK3571

STATION DESCRIPTION

DK3571'DESCRIBED BY G.C.Y., INCORPORATED 2005

DK3571'THE MARK IS LOCATED 4.89 MI (7.87 KM) NORTHEAST OF PORT ST LUCIE,

DK3571'11.24 MI (18.34 KM) NORTH NORTHWEST OF FORT PIERCE, AND 6.71 MI (10.80

DK3571'KM) SOUTH OF STUART IN SECTION 32, TOWNSHIP 36 SOUTH, RANGE 40 EAST.

DK3571'

DK3571'OWNERSHIP-CITY OF PORT ST LUCIE TO REACH THE MARK FROM THE

DK3571'INTERSECTION OF US 1 AND WALTON ROAD IN PORT ST LUCIE, PROCEED EAST ON

DK3571'WALTON ROAD 2.2 MI (3.54 KM) TO GREEN RIVER PARKWAY ON THE RIGHT, GO

DK3571'SOUTH ON GREEN RIVER PARKWAY 0.4 MI (.64 KM) TO THE MARK ON THE RIGHT.

DK3571'THE MARK IS 78' (23.8 M) NORTHEAST OF THE CENTERLINE OF GREEN RIVER

DK3571'PARKWAY, 3.5' (1.0 M) SOUTHWEST OF BRACE POST OF 4.5' (1.37 M) BARBED

DK3571'WIRE FENCE. NOTE- DEEP ONE MAGNET IS BURIED ON THE NORTH SIDE OF

DK3571'CONCRETE MONUMENT

DK3571

DK3571

STATION RECOVERY (2011)

DK3571

DK3571'RECOVERY NOTE BY GEOCACHING 2011 (JL)

DK3571'DESCRPTION SLIGHTLY INACCURATE. DESCRIPTION SHOULD READ ''...TO THE

DK3571'MARK ON THE LEFT''.

DK3571'

DK3571'WITNESS POST CURRENTLY LOCATED ADJACENT TO MARK.

DK3571'

DK3571'MY HANDHELD GPS COORDINATES N 27 17.602 W 80 15.938

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.

Line/Part: L26219 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

Mark ID SSN PID Designation Geopotential Elevation Codes  
 1402 0905 AJ7746 C 237 RESET 2.5326 2.5843

Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

Mark ID SSN PID Designation Geopotential Elevation Codes  
 805 0026 AJ8367 203 4.1109 4.1948

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ7746 *****
AJ7746 DESIGNATION - C 237 RESET
AJ7746 PID - AJ7746
AJ7746 STATE/COUNTY- FL/MIAMI-DADE
AJ7746 COUNTRY - US
AJ7746 USGS QUAD - COOPERTOWN (1973)
AJ7746
AJ7746 *CURRENT SURVEY CONTROL
AJ7746
AJ7746* NAD 83(2011) POSITION- 25 45 41.83673(N) 080 30 13.04727(W) ADJUSTED
AJ7746* NAD 83(2011) ELLIP HT- -22.559 (meters) (06/27/12) ADJUSTED
AJ7746* NAD 83(2011) EPOCH - 2010.00
AJ7746* NAVD 88 ORTHO HEIGHT - 2.110 (meters) 6.92 (feet) ADJUSTED
AJ7746
AJ7746 NAD 83(2011) X - 948,306.945 (meters) COMP
AJ7746 NAD 83(2011) Y - -5,669,061.720 (meters) COMP
AJ7746 NAD 83(2011) Z - 2,755,291.820 (meters) COMP
AJ7746 LAPLACE CORR - -1.98 (seconds) DEFLEC12B
AJ7746 GEOID HEIGHT - -24.668 (meters) GEOID12B
AJ7746 DYNAMIC HEIGHT - 2.107 (meters) 6.91 (feet) COMP
AJ7746 MODELED GRAVITY - 979,030.1 (mgal) NAVD 88
AJ7746
AJ7746 VERT ORDER - FIRST CLASS II
AJ7746
AJ7746 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ7746 Standards:
AJ7746 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ7746 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ7746 -----
AJ7746 NETWORK 1.22 2.04 0.53 0.46 1.04 -0.05257568
AJ7746 -----
AJ7746 Click here for local accuracies and other accuracy information.
AJ7746
AJ7746
AJ7746.The horizontal coordinates were established by GPS observations
AJ7746.and adjusted by the National Geodetic Survey in June 2012.
AJ7746
AJ7746.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ7746.frame has been affixed to the stable North American tectonic plate. See
AJ7746.NA2011 for more information.
AJ7746
AJ7746.The horizontal coordinates are valid at the epoch date displayed above
AJ7746.which is a decimal equivalence of Year/Month/Day.
AJ7746
AJ7746.The orthometric height was determined by differential leveling and
AJ7746.adjusted by the NATIONAL GEODETIC SURVEY
AJ7746.in March 2002.
AJ7746
AJ7746.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ7746.GEOID12B height accuracy estimate available here.
AJ7746
AJ7746.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ7746
AJ7746.The Laplace correction was computed from DEFLEC12B derived deflections.
AJ7746
    
```

AJ7746.The ellipsoidal height was determined by GPS observations  
AJ7746.and is referenced to NAD 83.

AJ7746

AJ7746.The dynamic height is computed by dividing the NAVD 88  
AJ7746.geopotential number by the normal gravity value computed on the  
AJ7746.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
AJ7746.degrees latitude (g = 980.6199 gals.).

AJ7746

AJ7746.The modeled gravity was interpolated from observed gravity values.

AJ7746

AJ7746. The following values were computed from the NAD 83(2011) position.

AJ7746

AJ7746;		North	East	Units	Scale	Factor	Converg.
AJ7746;SPC FL E	-	158,301.085	249,793.335	MT	0.99997178	+0 12	56.7
AJ7746;SPC FL E	-	519,359.48	819,530.30	sFT	0.99997178	+0 12	56.7
AJ7746;UTM 17	-	2,849,379.055	549,776.346	MT	0.99963059	+0 12	56.7
AJ7746!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
AJ7746!SPC FL E	-	1.00000354	x	0.99997178	=	0.99997532	
AJ7746!UTM 17	-	1.00000354	x	0.99963059	=	0.99963413	

AJ7746

AJ7746	PID	Reference Object	Distance	Geod. Az
AJ7746				dddmss.s
AJ7746	AC4738	J 407	60.548 METERS	10138

AJ7746

AJ7746

#### SUPERSEDED SURVEY CONTROL

AJ7746

AJ7746	NAD 83(2007)-	25 45 41.83708(N)	080 30 13.04826(W)	AD(2002.00)	0
AJ7746	ELLIP H (02/10/07)	-22.520 (m)		GP(2002.00)	
AJ7746	NAD 83(1999)-	25 45 41.83673(N)	080 30 13.04801(W)	AD( )	1
AJ7746	ELLIP H (12/12/02)	-22.489 (m)		GP( )	4 1
AJ7746	NAVD 88 (12/12/02)	2.11 (m)	6.9 (f)	LEVELING	3

AJ7746

AJ7746.Superseded values are not recommended for survey control.

AJ7746

AJ7746.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AJ7746.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ7746

AJ7746\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ4977649379(NAD 83)

AJ7746

AJ7746\_MARKER: DD = SURVEY DISK

AJ7746\_SETTING: 66 = SET IN ROCK OUTCROP

AJ7746\_STAMPING: C 237 RESET 9/88

AJ7746\_MARK LOGO: NGS

AJ7746\_MAGNETIC: N = NO MAGNETIC MATERIAL

AJ7746\_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

AJ7746+STABILITY: POSITION/ELEVATION WELL

AJ7746\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ7746+SATELLITE: SATELLITE OBSERVATIONS - 2002

AJ7746

AJ7746	HISTORY	- Date	Condition	Report By
AJ7746	HISTORY	- 1988	MONUMENTED	FLDT
AJ7746	HISTORY	- 20011012	GOOD	LDBLS
AJ7746	HISTORY	- 2002	GOOD	MAPTEC
AJ7746	HISTORY	- 20080204	GOOD	GCYI

AJ7746

#### STATION DESCRIPTION

AJ7746

AJ7746'DESCRIBED BY LD BRADLEY LAND SURVEYORS 2001 (JCH)

AJ7746'THE MARK IS ABOUT 141.3 KM (87.83 MI) SOUTHEAST OF NAPLES, ABOUT 20.3

AJ7746'KM (12.61

AJ7746'MI) WEST OF WEST MIAMI IN DADE COUNTY, FLORIDA. OWNERSHIP - FLORIDA

AJ7746'DEPARTMENT

AJ7746'OF TRANSPORTATION.

AJ7746'  
AJ7746'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 41 (TAMIAMI  
AJ7746'TRAIL) AND  
AJ7746'THE FLORIDA TURNPIKE (ABOUT 8.5 KM (5.25 MI) WEST OF WEST MIAMI), GO  
AJ7746'WEST ON  
AJ7746'U.S. HIGHWAY 41 (TAMIAMI TRAIL) 9.7 KM (6.0 MI) TO ITS INTERSECTION  
AJ7746'WITH STATE  
AJ7746'ROAD 997, CONTINUE WEST ON U.S. HIGHWAY 41 2.1 KM (1.32 MI) TO THE  
AJ7746'JUNCTION  
AJ7746'WITH A PAVED ROAD LEADING NORTH TO WEIR STRUCTURE S344, GO NORTH ALONG  
AJ7746'THE  
AJ7746'PAVED ROAD (CROSSING A BRIDGE ADJACENT TO WEIR STRUCTURE S344) 0.1 KM  
AJ7746'(0.05 MI)  
AJ7746'TO THE JUNCTION WITH A ROADWAY BETWEEN A CANAL AND LEVEE, GO WEST ON  
AJ7746'THE  
AJ7746'ROADWAY BETWEEN CANAL AND LEVEE 0.1 KM (0.08 MI) TO THE MARK ON THE  
AJ7746'RIGHT.

AJ7746'  
AJ7746'THE MARK IS 124.75 M (409.3 FT) WEST OF THE NORTH-SOUTH CENTERLINE OF  
AJ7746'A BRIDGE  
AJ7746'SPANNING A CANAL, 64.80 M (212.6 FT) WEST OF A WOOD UTILITY POLE,  
AJ7746'48.46 M  
AJ7746'(159.0 FT) WEST OF A QWEST COMMUNICATIONS BURIED FIBER OPTIC CABLE  
AJ7746'WARNING  
AJ7746'MARKER NUMBER 08123, 26.67 M (87.5 FT) SOUTHEAST OF A WOOD UTILITY  
AJ7746'POLE, 14.6 M  
AJ7746'(48.0 FT) NORTH OF THE NORTH EDGE OF A CANAL, AND 2.41 M (7.9 FT)  
AJ7746'SOUTH OF A  
AJ7746'CARSONITE WITNESS POST. THE MARK IS A DISK SET FLUSH IN THE TOP OF A  
AJ7746'ROCK  
AJ7746'OUTCROP FLUSH WITH THE LEVEL OF THE GROUND AND ABOUT 2.29 M (7.5 FT)  
AJ7746'BELOW THE  
AJ7746'TOP OF THE LEVEE.

AJ7746'

AJ7746'

AJ7746'

AJ7746'

AJ7746' STATION RECOVERY (2002)

AJ7746'

AJ7746'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AJ7746'THE MARK IS ABOUT 141.3 KM (87.83 MI) SOUTHEAST OF NAPLES, ABOUT 20.3  
AJ7746'KM (12.61

AJ7746'MI) WEST OF WEST MIAMI IN DADE COUNTY, FLORIDA. OWNERSHIP - FLORIDA  
AJ7746'DEPARTMENT

AJ7746'OF TRANSPORTATION.

AJ7746'

AJ7746'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 41 (TAMIAMI  
AJ7746'TRAIL) AND

AJ7746'THE FLORIDA TURNPIKE (ABOUT 8.5 KM (5.25 MI) WEST OF WEST MIAMI), GO  
AJ7746'WEST ON

AJ7746'U.S. HIGHWAY 41 (TAMIAMI TRAIL) 9.7 KM (6.0 MI) TO ITS INTERSECTION  
AJ7746'WITH STATE

AJ7746'ROAD 997, CONTINUE WEST ON U.S. HIGHWAY 41 2.1 KM (1.32 MI) TO THE  
AJ7746'JUNCTION

AJ7746'WITH A PAVED ROAD LEADING NORTH TO WEIR STRUCTURE S344, GO NORTH ALONG  
AJ7746'THE

AJ7746'PAVED ROAD (CROSSING A BRIDGE ADJACENT TO WEIR STRUCTURE S344) 0.1 KM  
AJ7746'(0.05 MI)

AJ7746'TO THE JUNCTION WITH A ROADWAY BETWEEN A CANAL AND LEVEE, GO WEST ON  
AJ7746'THE

AJ7746'ROADWAY BETWEEN CANAL AND LEVEE 0.1 KM (0.08 MI) TO THE MARK ON THE  
AJ7746'RIGHT.

AJ7746'

AJ7746'THE MARK IS 124.75 M (409.3 FT) WEST OF THE NORTH-SOUTH CENTERLINE OF  
AJ7746'A BRIDGE

AJ7746'SPANNING A CANAL, 64.80 M (212.6 FT) WEST OF A WOOD UTILITY POLE,

AJ7746'48.46 M  
 AJ7746'(159.0 FT) WEST OF A QWEST COMMUNICATIONS BURIED FIBER OPTIC CABLE  
 AJ7746'WARNING  
 AJ7746'MARKER NUMBER 08123, 26.67 M (87.5 FT) SOUTHEAST OF A WOOD UTILITY  
 AJ7746'POLE, 14.6 M  
 AJ7746'(48.0 FT) NORTH OF THE NORTH EDGE OF A CANAL, AND 2.41 M (7.9 FT)  
 AJ7746'SOUTH OF A  
 AJ7746'CARSONITE WITNESS POST. THE MARK IS A DISK SET FLUSH IN THE TOP OF A  
 AJ7746'ROCK  
 AJ7746'OUTCROP FLUSH WITH THE LEVEL OF THE GROUND AND ABOUT 2.29 M (7.5 FT)  
 AJ7746'BELOW THE  
 AJ7746'TOP OF THE LEVEE.  
 AJ7746'  
 AJ7746'  
 AJ7746'STATION RECOVERY (2002)  
 AJ7746'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CP)  
 AJ7746'RECOVERED AS DESCRIBED.  
 AJ7746'  
 AJ7746'  
 AJ7746  
 AJ7746 STATION RECOVERY (2008)  
 AJ7746  
 AJ7746'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)  
 AJ7746'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.  
 Elapsed Time = 00:00:02

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

# The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
834	0054	AJ8390	FCE 4515	3.3175	3.3852	
835	0055	AJ8391	FCE 4514	3.4634	3.5341	
836	0056	AJ8392	G 504	3.3560	3.4244	

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

```

PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8391 *****
AJ8391 DESIGNATION - FCE 4514
AJ8391 PID - AJ8391
AJ8391 STATE/COUNTY- FL/MIAMI-DADE
AJ8391 COUNTRY - US
AJ8391 USGS QUAD - GROSSMAN HAMMOCK (1973)
AJ8391
AJ8391 *CURRENT SURVEY CONTROL
AJ8391
AJ8391* NAD 83(1986) POSITION- 25 30 43. (N) 080 33 37. (W) SCALED
AJ8391* NAVD 88 ORTHO HEIGHT - 3.052 (meters) 10.01 (feet) ADJUSTED
AJ8391
AJ8391 GEOID HEIGHT - -24.626 (meters) GEOID12B
AJ8391 DYNAMIC HEIGHT - 3.047 (meters) 10.00 (feet) COMP
AJ8391 MODELED GRAVITY - 978,988.2 (mgal) NAVD 88
AJ8391
AJ8391 VERT ORDER - FIRST CLASS II
AJ8391
AJ8391.The horizontal coordinates were scaled from a topographic map and have
AJ8391.an estimated accuracy of +/- 6 seconds.
AJ8391.
AJ8391.The orthometric height was determined by differential leveling and
AJ8391.adjusted by the NATIONAL GEODETIC SURVEY
AJ8391.in June 2002.
AJ8391
AJ8391.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8391.GEOID12B height accuracy estimate available here.
AJ8391
AJ8391.The dynamic height is computed by dividing the NAVD 88
AJ8391.geopotential number by the normal gravity value computed on the
AJ8391.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8391.degrees latitude (g = 980.6199 gals.).
AJ8391
AJ8391.The modeled gravity was interpolated from observed gravity values.
AJ8391
AJ8391; North East Units Estimated Accuracy
AJ8391;SPC FL E - 130,620. 244,200. MT (+/- 180 meters Scaled)
AJ8391
AJ8391 SUPERSEDED SURVEY CONTROL
AJ8391
AJ8391.No superseded survey control is available for this station.
AJ8391
AJ8391_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ441217(NAD 83)
AJ8391
AJ8391_MARKER: DD = SURVEY DISK
AJ8391_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ8391_STAMPING: FCE 4514 JAX. FLA.
AJ8391_MARK LOGO: USE
AJ8391_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8391_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ8391+STABILITY: SURFACE MOTION
AJ8391_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8391+SATELLITE: SATELLITE OBSERVATIONS - February 09, 2007
AJ8391
AJ8391 HISTORY - Date Condition Report By
    
```



AJ8391	HISTORY	- UNK	MONUMENTED	USE
AJ8391	HISTORY	- 20010106	GOOD	FLDEP
AJ8391	HISTORY	- 20070209	GOOD	INDIV
AJ8391	HISTORY	- 20080131	GOOD	GCYI
AJ8391	HISTORY	- 20150410	GOOD	WANTGP

AJ8391

AJ8391

AJ8391

## STATION DESCRIPTION

AJ8391'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)  
 AJ8391'THE MARK IS ABOUT 9.0 MI (14.5 KM) WEST OF HOMESTEAD, 8.0 MI (12.9 KM)  
 AJ8391'WEST OF FLORIDA CITY, IN ESTIMATED SECTION 31, TOWNSHIP 56 SOUTH,  
 AJ8391'RANGE 38 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S.  
 AJ8391'HIGHWAY 1 (SOUTH DIXIE HIGHWAY) AND PALM DRIVE (STATE ROAD 9336,  
 AJ8391'SOUTHWEST 344TH STREET) IN FLORIDA CITY, GO WEST ON PALM DRIVE (STATE  
 AJ8391'ROAD 9336, SOUTHWEST 344TH STREET) FOR 1.7 MI (2.7 KM) TO THE JUNCTION  
 AJ8391'OF SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) TURN LEFT ON  
 AJ8391'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) AND GO SOUTH FOR  
 AJ8391'2.1 MI (3.4 KM) TO THE JUNCTION OF SOUTHWEST 376TH STREET (STATE ROAD  
 AJ8391'9336, INGRAHAM HIGHWAY) ON THE RIGHT, TURN RIGHT ON SOUTHWEST 376TH  
 AJ8391'STREET (STATE ROAD 9336, INGRAHAM HIGHWAY) AND GO WEST FOR 4.95 MI  
 AJ8391'(7.97 KM) TO THE EAST END OF BRIDGE NUMBER 870081 1969 SPANNING CANAL  
 AJ8391'31, TURN RIGHT ON THE LEVEE ROAD ON THE EAST SIDE OF CANAL 31 AND GO  
 AJ8391'NORTH FOR 8.5 MI (13.7 KM) TO A PUMP HOUSE, TURN LEFT ON THE EAST SIDE  
 AJ8391'OF THE PUMP HOUSE AND GO NORTH FOR 0.1 MI (0.2 KM) TO A SET OF DOUBLE  
 AJ8391'LOCKED GATES, PASSING THROUGH THE GATES GO EAST THEN NORTH ON THE  
 AJ8391'LEVEE ROAD FOR 1.1 MI (1.8 KM) TO A LOCKED GATE AND THE INTERSECTION  
 AJ8391'OF A PAVED ROAD (AN OLD IRON BRIDGE SPANNING CANAL 31N) , CONTINUE  
 AJ8391'NORTH ON THE LEVEE ROAD FOR 0.1 MI (0.2 KM) TO A LOCKED GATE, CONTINUE  
 AJ8391'NORTH ON THE LEVEE ROAD FOR 1.0 MI (1.6 KM) TO THE MARK ON THE RIGHT,  
 AJ8391'SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND AND  
 AJ8391'LEVEL WITH THE LEVEE ROAD. LOCATED 67.4 FT (20.5 M) NORTH OF MILE  
 AJ8391'MARKER NUMBER 10, 9.7 FT (3.0 M) EAST OF THE APPROXIMATE CENTERLINE OF  
 AJ8391'THE LEVEE ROAD, 2.7 FT (0.8 M) WEST OF THE TOP OF THE BANK OF THE  
 AJ8391'CANAL AND 2.6 FT (0.8 M) WEST OF A METAL WITNESS POST. NOTE A BAR  
 AJ8391'MAGNET WAS INBEDDED IN THE GROUND ON NORTH SIDE OF THE MONUMENT. NOTE  
 AJ8391'FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT AT 2195  
 AJ8391'NORTHEAST 8TH STREET HOMESTEAD, FL 33033, PHONE 305-242-5955.

AJ8391

## STATION RECOVERY (2007)

AJ8391

AJ8391'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DF)

AJ8391'RECOVERED IN GOOD CONDITION.

AJ8391

## STATION RECOVERY (2008)

AJ8391

AJ8391'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

AJ8391'RECOVERED IN GOOD CONDITION.

AJ8391

## STATION RECOVERY (2015)

AJ8391

AJ8391'RECOVERY NOTE BY WANTMAN GROUP INC 2015 (JM)

AJ8391'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

# The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
834	0054	AJ8390	FCE 4515	3.3175	3.3852	
835	0055	AJ8391	FCE 4514	3.4634	3.5341	
836	0056	AJ8392	G 504	3.3560	3.4244	

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

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PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8390 *****
AJ8390 DESIGNATION - FCE 4515
AJ8390 PID - AJ8390
AJ8390 STATE/COUNTY- FL/MIAMI-DADE
AJ8390 COUNTRY - US
AJ8390 USGS QUAD - GROSSMAN HAMMOCK (1973)
AJ8390
AJ8390 *CURRENT SURVEY CONTROL
AJ8390
AJ8390* NAD 83(1986) POSITION- 25 31 11. (N) 080 33 37. (W) SCALED
AJ8390* NAVD 88 ORTHO HEIGHT - 2.903 (meters) 9.52 (feet) ADJUSTED
AJ8390
AJ8390 GEOID HEIGHT - -24.623 (meters) GEOID12B
AJ8390 DYNAMIC HEIGHT - 2.899 (meters) 9.51 (feet) COMP
AJ8390 MODELED GRAVITY - 978,989.4 (mgal) NAVD 88
AJ8390
AJ8390 VERT ORDER - FIRST CLASS II
AJ8390
AJ8390.The horizontal coordinates were scaled from a topographic map and have
AJ8390.an estimated accuracy of +/- 6 seconds.
AJ8390.
AJ8390.The orthometric height was determined by differential leveling and
AJ8390.adjusted by the NATIONAL GEODETIC SURVEY
AJ8390.in June 2002.
AJ8390
AJ8390.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8390.GEOID12B height accuracy estimate available here.
AJ8390
AJ8390.The dynamic height is computed by dividing the NAVD 88
AJ8390.geopotential number by the normal gravity value computed on the
AJ8390.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8390.degrees latitude (g = 980.6199 gals.).
AJ8390
AJ8390.The modeled gravity was interpolated from observed gravity values.
AJ8390
AJ8390; North East Units Estimated Accuracy
AJ8390;SPC FL E - 131,480. 244,200. MT (+/- 180 meters Scaled)
AJ8390
AJ8390 SUPERSEDED SURVEY CONTROL
AJ8390
AJ8390.No superseded survey control is available for this station.
AJ8390
AJ8390_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ441225(NAD 83)
AJ8390
AJ8390_MARKER: DD = SURVEY DISK
AJ8390_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ8390_STAMPING: FCE 4515 JAX. FLA.
AJ8390_MARK LOGO: USE
AJ8390_MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
AJ8390_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ8390+STABILITY: SURFACE MOTION
AJ8390_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8390+SATELLITE: SATELLITE OBSERVATIONS - February 09, 2007
AJ8390
AJ8390 HISTORY - Date Condition Report By
    
```

AJ8390	HISTORY	- UNK	MONUMENTED	USE
AJ8390	HISTORY	- 20010106	GOOD	FLDEP
AJ8390	HISTORY	- 20070209	GOOD	INDIV
AJ8390	HISTORY	- 20080131	GOOD	GCYI

AJ8390

AJ8390

AJ8390

## STATION DESCRIPTION

AJ8390

AJ8390'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)

AJ8390'THE MARK IS ABOUT 9.5 MI (15.3 KM) OF HOMESTEAD, 8.5 MI (13.7 KM)

AJ8390'SOUTHWEST OF FLORIDA CITY, IN ESTIMATED SECTION 30, TOWNSHIP 56 SOUTH,

AJ8390'RANGE 38 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S.

AJ8390'HIGHWAY 1 (SOUTH DIXIE HIGHWAY) AND PALM DRIVE (STATE ROAD 9336,

AJ8390'SOUTHWEST 344TH STREET) IN FLORIDA CITY, GO WEST ON PALM DRIVE (STATE

AJ8390'ROAD 9336, SOUTHWEST 344TH STREET) FOR 1.7 MI (2.7 KM) TO THE JUNCTION

AJ8390'OF SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) TURN LEFT ON

AJ8390'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) AND GO SOUTH FOR

AJ8390'2.1 MI (3.4 KM) TO THE JUNCTION OF SOUTHWEST 376TH STREET (STATE ROAD

AJ8390'9336, INGRAHAM HIGHWAY) ON THE RIGHT, TURN RIGHT ON SOUTHWEST 376TH

AJ8390'STREET (STATE ROAD 9336, INGRAHAM HIGHWAY) AND GO WEST FOR 4.95 MI

AJ8390'(7.97 KM) TO THE EAST END OF BRIDGE NUMBER 870081 1969 SPANNING CANAL

AJ8390'31, TURN RIGHT ON THE LEVEE ROAD ON THE EAST SIDE OF CANAL 31 AND GO

AJ8390'NORTH FOR 8.5 MI (13.7 KM) TO A PUMP HOUSE, TURN LEFT ON THE EAST SIDE

AJ8390'OF THE PUMP HOUSE AND GO NORTH FOR 0.1 MI (0.2 KM) TO A SET OF DOUBLE

AJ8390'LOCKED GATES, PASSING THROUGH THE GATES GO EAST THEN NORTH ON THE

AJ8390'LEVEE ROAD FOR 1.1 MI (1.8 KM) TO A LOCKED GATE AND THE INTERSECTION

AJ8390'OF A PAVED ROAD (AN OLD IRON BRIDGE SPANNING CANAL 31N) , CONTINUE

AJ8390'NORTH ON THE LEVEE ROAD FOR 0.1 MI (0.2 KM) TO A LOCKED GATE, CONTINUE

AJ8390'NORTH ON THE LEVEE ROAD FOR 1.55 MI (2.49 KM) TO THE MARK ON THE

AJ8390'RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE

AJ8390'GROUND AND LEVEL WITH THE LEVEE ROAD. LOCATED 43.3 FT (13.2 M) EAST OF

AJ8390'THE APPROXIMATE CENTERLINE OF THE UPPER LEVEE ROAD, 17.4 FT (5.3 M)

AJ8390'EAST OF THE APPROXIMATE CENTERLINE OF THE LOWER LEVEE ROAD, 2.2 FT

AJ8390'(0.7 M) WEST OF THE TOP OF THE BANK OF THE CANAL AND 2.1 FT (0.6 M)

AJ8390'WEST OF A METAL WITNESS POST. NOTE A BAR MAGNET WAS INBEDDED IN THE

AJ8390'GROUND NEXT TO THE MONUMENT ON THE NORTH SIDE. NOTE FOR KEY CONTACT

AJ8390'SOUTH FLORIDA WATER MANAGEMENT DISTRICT AT 2195 NORTHEAST 8TH STREET

AJ8390'HOMESTEAD, FL 33033, PHONE 305-242-5955.

AJ8390

AJ8390

## STATION RECOVERY (2007)

AJ8390

AJ8390

AJ8390'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DF)

AJ8390'RECOVERED IN GOOD CONDITION.

AJ8390

AJ8390

## STATION RECOVERY (2008)

AJ8390

AJ8390

AJ8390'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

AJ8390'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = DECEMBER 7, 2015
DH9621 *****
DH9621 DESIGNATION - G 119
DH9621 PID - DH9621
DH9621 STATE/COUNTY- FL/MIAMI-DADE
DH9621 COUNTRY - US
DH9621 USGS QUAD - HIALEAH SW (1988)
DH9621
DH9621 *CURRENT SURVEY CONTROL
DH9621
DH9621* NAD 83(1986) POSITION- 25 45 40. (N) 080 28 37. (W) SCALED
DH9621* NAVD 88 ORTHO HEIGHT - 2.221 (meters) 7.29 (feet) ADJUSTED
DH9621
DH9621 GEOID HEIGHT - -24.724 (meters) GEOID12B
DH9621 DYNAMIC HEIGHT - 2.217 (meters) 7.27 (feet) COMP
DH9621 MODELED GRAVITY - 979,030.9 (mgal) NAVD 88
DH9621
DH9621 VERT ORDER - FIRST CLASS II
DH9621
DH9621.The horizontal coordinates were scaled from a topographic map and have
DH9621.an estimated accuracy of +/- 6 seconds.
DH9621.
DH9621.The orthometric height was determined by differential leveling and
DH9621.adjusted by the NATIONAL GEODETIC SURVEY
DH9621.in July 2006.
DH9621
DH9621.Significant digits in the geoid height do not necessarily reflect accuracy.
DH9621.GEOID12B height accuracy estimate available here.
DH9621
DH9621.Photographs are available for this station.
DH9621
DH9621.The dynamic height is computed by dividing the NAVD 88
DH9621.geopotential number by the normal gravity value computed on the
DH9621.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DH9621.degrees latitude (g = 980.6199 gals.).
DH9621
DH9621.The modeled gravity was interpolated from observed gravity values.
DH9621
DH9621;
DH9621;SPC FL E - North East Units Estimated Accuracy
DH9621; 158,260. 252,470. MT (+/- 180 meters Scaled)
DH9621
DH9621 SUPERSEDED SURVEY CONTROL
DH9621
DH9621.No superseded survey control is available for this station.
DH9621
DH9621_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ524493(NAD 83)
DH9621
DH9621_MARKER: DD = SURVEY DISK
DH9621_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
DH9621_SP_SET: RETAINING WALL
DH9621_STAMPING: BM G-119 1995
DH9621_MARK LOGO: SFLWMD
DH9621_MAGNETIC: N = NO MAGNETIC MATERIAL
DH9621_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DH9621+STABILITY: SURFACE MOTION
DH9621_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

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DH9621+SATELLITE: SATELLITE OBSERVATIONS - February 01, 2008

DH9621

DH9621	HISTORY	- Date	Condition	Report By
DH9621	HISTORY	- 1995	MONUMENTED	SFLWMD
DH9621	HISTORY	- 20080201	GOOD	GCYI
DH9621	HISTORY	- 20090722	GOOD	DCPW

DH9621

DH9621

STATION DESCRIPTION

DH9621

DH9621'DESCRIBED BY S FL WATER MGMT DIST 1995 (JLM)

DH9621'THE MARK IS ABOUT 18.3 MI NORTH OF HOMESTEAD, 10.8 MI SOUTHWEST OF  
DH9621'HIALEAH, 10.0 MI NORTH OF KENDALL, IN SECTION 6, TOWNSHIP 54 SOUTH,  
DH9621'RANGE 39 EAST.

DH9621'

DH9621'TO REACH THE MARK FROM THE JUNCTION OF STATE HIGHWAY 997 (KROME

DH9621'AVENUE, SW 177 AVENUE) AND U.S. HIGHWAY 41 (TAMIAMI TRAIL, SW 8TH ST)

DH9621'ABOUT 10.0 MI SOUTHWEST OF HIALEAH, GO EAST ON U.S. HIGHWAY 41

DH9621'(TAMIAMI TRAIL, SW 8TH ST) FOR 0.25 MI TO THE JUNCTION OF A PAVED ROAD

DH9621'ON THE LEFT, STRUCTURE G-119 AND THE MARK ON THE LEFT, SET FLUSH IN

DH9621'THE TOP OF NORTHWEST END OF A RETAINING WALL FOR WATER CONTROL

DH9621'STRUCTURE G-119 ABOUT LEVEL WITH U.S. HIGHWAY 41.

DH9621'

DH9621'LOCATED 78.3 FT NORTH OF THE CENTERLINE OF U.S. HIGHWAY 41 WESTBOUND

DH9621'LANES, 38.8 FT WEST OF THE APPROXIMATE CENTERLINE OF A PAVED ROAD

DH9621'LEADING NORTH, 16.0 FT NORTHWEST OF THE NORTHEAST CORNER OF A WOODEN

DH9621'DOCK FOR G-119, 11.7 FT SOUTH OF THE WEST END OF A GUARDRAIL AND 1.1

DH9621'FT SOUTHEAST OF THE NORTHWEST END OF THE RETAINING WALL.

DH9621

STATION RECOVERY (2008)

DH9621

DH9621

DH9621'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

DH9621'RECOVERED IN GOOD CONDITION.

DH9621

STATION RECOVERY (2009)

DH9621

DH9621

DH9621'RECOVERY NOTE BY DOUGLAS COUNTY PUBLIC WORKS 2009 (LER)

DH9621'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:01

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.

Line/Part: L26195 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

# The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
834	0054	AJ8390	FCE 4515	3.3175	3.3852	
835	0055	AJ8391	FCE 4514	3.4634	3.5341	
836	0056	AJ8392	G 504	3.3560	3.4244	

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

```

PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8392 *****
AJ8392 DESIGNATION - G 504
AJ8392 PID - AJ8392
AJ8392 STATE/COUNTY- FL/MIAMI-DADE
AJ8392 COUNTRY - US
AJ8392 USGS QUAD - GROSSMAN HAMMOCK (1973)
AJ8392
AJ8392 *CURRENT SURVEY CONTROL
AJ8392
AJ8392* NAD 83(1986) POSITION- 25 30 01. (N) 080 33 34. (W) SCALED
AJ8392* NAVD 88 ORTHO HEIGHT - 2.942 (meters) 9.65 (feet) ADJUSTED
AJ8392
AJ8392 GEOID HEIGHT - -24.630 (meters) GEOID12B
AJ8392 DYNAMIC HEIGHT - 2.937 (meters) 9.64 (feet) COMP
AJ8392 MODELED GRAVITY - 978,986.3 (mgal) NAVD 88
AJ8392
AJ8392 VERT ORDER - FIRST CLASS II
AJ8392
AJ8392.The horizontal coordinates were scaled from a topographic map and have
AJ8392.an estimated accuracy of +/- 6 seconds.
AJ8392.
AJ8392.The orthometric height was determined by differential leveling and
AJ8392.adjusted by the NATIONAL GEODETIC SURVEY
AJ8392.in June 2002.
AJ8392
AJ8392.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8392.GEOID12B height accuracy estimate available here.
AJ8392
AJ8392.The dynamic height is computed by dividing the NAVD 88
AJ8392.geopotential number by the normal gravity value computed on the
AJ8392.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8392.degrees latitude (g = 980.6199 gals.).
AJ8392
AJ8392.The modeled gravity was interpolated from observed gravity values.
AJ8392
AJ8392; North East Units Estimated Accuracy
AJ8392;SPC FL E - 129,330. 244,290. MT (+/- 180 meters Scaled)
AJ8392
AJ8392 SUPERSEDED SURVEY CONTROL
AJ8392
AJ8392.No superseded survey control is available for this station.
AJ8392
AJ8392_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ442204(NAD 83)
AJ8392
AJ8392_MARKER: DD = SURVEY DISK
AJ8392_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
AJ8392_SP_SET: BRIDGE ABUTMENT
AJ8392_STAMPING: G 504 2000
AJ8392_MARK LOGO: FLDEP
AJ8392_MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8392_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ8392_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
AJ8392+SATELLITE: SATELLITE OBSERVATIONS - 2000
AJ8392
AJ8392 HISTORY - Date Condition Report By
    
```

AJ8392 HISTORY - 2000 MONUMENTED FLDEP  
AJ8392 HISTORY - 20080131 GOOD GCYI

AJ8392

AJ8392

STATION DESCRIPTION

AJ8392

AJ8392'DESCRIBED BY FL DEPT OF ENV PRO 2000 (JLM)

AJ8392'THE MARK IS ABOUT 8.0 MI (12.9 KM) WEST OF HOMESTEAD, 7.0 MI (11.3 KM)

AJ8392'WEST OF FLORIDA CITY, IN SECTION 6, TOWNSHIP 57 SOUTH, RANGE 38 EAST.

AJ8392'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 1 (SOUTH

AJ8392'DIXIE HIGHWAY) AND PALM DRIVE (STATE ROAD 9336, SOUTHWEST 344TH

AJ8392'STREET) IN FLORIDA CITY, GO WEST ON PALM DRIVE (STATE ROAD 9336,

AJ8392'SOUTHWEST 344TH STREET) FOR 1.7 MI (2.7 KM) TO THE JUNCTION OF

AJ8392'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) TURN LEFT ON

AJ8392'SOUTHWEST 192TH AVENUE (TOWER ROAD, STATE ROAD 9336) AND GO SOUTH FOR

AJ8392'2.1 MI (3.4 KM) TO THE JUNCTION OF SOUTHWEST 376TH STREET (STATE ROAD

AJ8392'9336, INGRAHAM HIGHWAY) ON THE RIGHT, TURN RIGHT ON SOUTHWEST 376TH

AJ8392'STREET (STATE ROAD 9336, INGRAHAM HIGHWAY) AND GO WEST FOR 4.95 MI

AJ8392'(7.97 KM) TO THE EAST END OF BRIDGE NUMBER 870081 1969 SPANNING CANAL

AJ8392'31, TURN RIGHT ON THE LEVEE ROAD ON THE EAST SIDE OF THE CANAL 31 AND

AJ8392'GO NORTH FOR 8.5 MI (13.7 KM) TO A PUMP HOUSE, TURN LEFT ON THE EAST

AJ8392'SIDE OF THE PUMP HOUSE AND GO NORTH FOR 0.1 MI (0.2 KM) TO A SET OF

AJ8392'DOUBLE LOCKED GATES, PASSING THROUGH THE GATES GO EAST THEN NORTH ON

AJ8392'THE LEVEE ROAD FOR 1.1 MI (1.8 KM) TO A LOCKED GATE AND THE

AJ8392'INTERSECTION OF A PAVED ROAD (AN OLD IRON BRIDGE SPANNING CANAL 31N)

AJ8392'AND THE MARK ON THE RIGHT, SET IN THE TOP OF THE NORTHWEST BRIDGE

AJ8392'ABUTMENT OF THE OLD IRON BRIDGE 4.0 FT (1.2 M) BELOW THE TOP OF THE

AJ8392'BRIDGE ROAD. LOCATED 37.0 FT (11.3 M) EAST OF THE APPROXIMATE

AJ8392'CENTERLINE OF THE LEVEE ROAD, 23.6 FT (7.2 M) EAST OF THE WEST END OF

AJ8392'THE BRIDGE GUARDRAIL, 9.7 FT (3.0 M) NORTH OF THE APPROXIMATE

AJ8392'CENTERLINE OF THE BRIDGE AND 9.5 FT (2.9 M) NORTH OF A CARSONITE

AJ8392'WITNESS POST. NOTE FOR KEY CONTACT SOUTH FLORIDA WATER MANAGEMENT

AJ8392'DISTRICT AT 2195 NORTHEAST 8TH STREET HOMESTEAD, FL 33033, PHONE

AJ8392'305-242-5955.

AJ8392

AJ8392

STATION RECOVERY (2008)

AJ8392

AJ8392'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)

AJ8392'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:01

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26368 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

# The NGS Data Sheet

<b>Mark ID</b>	<b>SSN</b>	<b>PID</b>	<b>Designation</b>	<b>Geopotential</b>	<b>Elevation</b>	<b>Codes</b>
2047	1003	AB2495	GS 41	5.5571	5.6706	
2048	1004	AJ5262	GCY D20	4.5827	4.6762	

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

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PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ5262 *****
AJ5262 DESIGNATION - GCY D20
AJ5262 PID - AJ5262
AJ5262 STATE/COUNTY- FL/MARTIN
AJ5262 COUNTRY - US
AJ5262 USGS QUAD - ST LUCIE INLET (1983)
AJ5262
AJ5262 *CURRENT SURVEY CONTROL
AJ5262
AJ5262* NAD 83(2011) POSITION- 27 14 43.20055(N) 080 14 52.04004(W) ADJUSTED
AJ5262* NAD 83(2011) ELLIP HT- -23.333 (meters) (06/27/12) ADJUSTED
AJ5262* NAD 83(2011) EPOCH - 2010.00
AJ5262* NAVD 88 ORTHO HEIGHT - 4.222 (meters) 13.85 (feet) ADJUSTED
AJ5262
AJ5262 NAD 83(2011) X - 961,184.894 (meters) COMP
AJ5262 NAD 83(2011) Y - -5,592,473.501 (meters) COMP
AJ5262 NAD 83(2011) Z - 2,902,399.777 (meters) COMP
AJ5262 LAPLACE CORR - -2.70 (seconds) DEFLEC12B
AJ5262 GEOID HEIGHT - -27.561 (meters) GEOID12B
AJ5262 DYNAMIC HEIGHT - 4.215 (meters) 13.83 (feet) COMP
AJ5262 MODELED GRAVITY - 979,123.1 (mgal) NAVD 88
AJ5262
AJ5262 VERT ORDER - FIRST CLASS II
AJ5262
AJ5262 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ5262 Standards:
AJ5262 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ5262 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ5262 -----
AJ5262 NETWORK 0.77 1.74 0.33 0.30 0.89 -0.05111718
AJ5262 -----
AJ5262 Click here for local accuracies and other accuracy information.
AJ5262
AJ5262 The horizontal coordinates were established by GPS observations
AJ5262 and adjusted by the National Geodetic Survey in June 2012.
AJ5262
AJ5262 NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ5262 frame has been affixed to the stable North American tectonic plate. See
AJ5262 NA2011 for more information.
AJ5262
AJ5262 The horizontal coordinates are valid at the epoch date displayed above
AJ5262 which is a decimal equivalence of Year/Month/Day.
AJ5262
AJ5262 The orthometric height was determined by differential leveling and
AJ5262 adjusted by the NATIONAL GEODETIC SURVEY
AJ5262 in September 2013.
AJ5262
AJ5262 No vertical observational check was made to the station.
AJ5262
AJ5262 Significant digits in the geoid height do not necessarily reflect accuracy.
AJ5262 GEOID12B height accuracy estimate available here.
AJ5262
AJ5262 The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ5262
    
```



AJ5262.The Laplace correction was computed from DEFLEC12B derived deflections.

AJ5262

AJ5262.The ellipsoidal height was determined by GPS observations

AJ5262.and is referenced to NAD 83.

AJ5262

AJ5262.The dynamic height is computed by dividing the NAVD 88

AJ5262.geopotential number by the normal gravity value computed on the

AJ5262.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ5262.degrees latitude (g = 980.6199 gals.).

AJ5262

AJ5262.The modeled gravity was interpolated from observed gravity values.

AJ5262

AJ5262. The following values were computed from the NAD 83(2011) position.

AJ5262

AJ5262;		North	East	Units	Scale Factor	Converg.
AJ5262;SPC FL E	-	322,810.616	274,494.795	MT	1.00000966	+0 20 39.8
AJ5262;SPC FL E	-	1,059,087.83	900,571.67	sFT	1.00000966	+0 20 39.8
AJ5262;UTM 17	-	3,013,832.456	574,469.377	MT	0.99966846	+0 20 39.8

AJ5262

AJ5262! - Elev Factor x Scale Factor = Combined Factor

AJ5262!SPC FL E - 1.00000367 x 1.00000966 = 1.00001333

AJ5262!UTM 17 - 1.00000367 x 0.99966846 = 0.99967212

AJ5262

#### SUPERSEDED SURVEY CONTROL

AJ5262

AJ5262 NAD 83(2007)- 27 14 43.20085(N) 080 14 52.04102(W) AD(2002.00) 0

AJ5262 ELLIP H (02/10/07) -23.311 (m) GP(2002.00)

AJ5262 NAD 83(1999)- 27 14 43.20096(N) 080 14 52.04139(W) AD( ) 1

AJ5262 ELLIP H (09/27/01) -23.293 (m) GP( ) 4 2

AJ5262 NAVD 88 (08/02/02) 4.224 (m) 13.86 (f) SUPERSEDED 2 1

AJ5262 NAVD 88 (09/27/01) 4.2 (m) GEOID99 model used GPS OBS

AJ5262

AJ5262.Superseded values are not recommended for survey control.

AJ5262

AJ5262.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AJ5262.[See file dsdata.txt](#) to determine how the superseded data were derived.

AJ5262

AJ5262\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL7446913832(NAD 83)

AJ5262

AJ5262\_MARKER: DH = HORIZONTAL CONTROL DISK

AJ5262\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AJ5262\_STAMPING: GCY D20 2001

AJ5262\_MARK LOGO: FL-085

AJ5262\_PROJECTION: FLUSH

AJ5262\_MAGNETIC: N = NO MAGNETIC MATERIAL

AJ5262\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AJ5262+STABILITY: SURFACE MOTION

AJ5262\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ5262+SATELLITE: SATELLITE OBSERVATIONS - June 22, 2011

AJ5262

AJ5262	HISTORY	- Date	Condition	Report By
AJ5262	HISTORY	- 20010514	MONUMENTED	GCYI
AJ5262	HISTORY	- 20020408	GOOD	GCYI
AJ5262	HISTORY	- 20080118	GOOD	GCYI
AJ5262	HISTORY	- 20090317	GOOD	JOHNSN
AJ5262	HISTORY	- 20110622	GOOD	FLDEP

AJ5262

#### STATION DESCRIPTION

AJ5262

AJ5262'DESCRIBED BY G.C.Y., INCORPORATED 2001 (MDL)

AJ5262'THE STATION IS LOCATED 1.6 KM (1 MI) WEST OF JENSEN BEACH AND 5.3 KM

AJ5262'(3.3 MI)

AJ5262'NORTH OF STUART NEAR THE NORTH RIGHT OF WAY OF JENSEN BEACH

AJ5262'BOULEVARD IN SECTION 16, TOWNSHIP 37 SOUTH, RANGE 41 EAST, MARTIN

AJ5262'COUNTY, FLORIDA.

AJ5262'



From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26368 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

# The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
2047	1003	AB2495	GS 41	5.5571	5.6706	
2048	1004	AJ5262	GCV D20	4.5827	4.6762	

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = DECEMBER 7, 2015
AB2495 *****
AB2495 DESIGNATION - GS 41
AB2495 PID - AB2495
AB2495 STATE/COUNTY- FL/MARTIN
AB2495 COUNTRY - US
AB2495 USGS QUAD - PALM CITY (1983)
AB2495
AB2495 *CURRENT SURVEY CONTROL
AB2495
AB2495* NAD 83(2011) POSITION- 27 14 42.98047(N) 080 15 15.29060(W) ADJUSTED
AB2495* NAD 83(2011) ELLIP HT- -22.313 (meters) (06/27/12) ADJUSTED
AB2495* NAD 83(2011) EPOCH - 2010.00
AB2495* NAVD 88 ORTHO HEIGHT - 5.219 (meters) 17.12 (feet) ADJUSTED
AB2495
AB2495 NAD 83(2011) X - 960,555.172 (meters) COMP
AB2495 NAD 83(2011) Y - -5,592,585.763 (meters) COMP
AB2495 NAD 83(2011) Z - 2,902,394.221 (meters) COMP
AB2495 LAPLACE CORR - -2.65 (seconds) DEFLEC12B
AB2495 GEOID HEIGHT - -27.545 (meters) GEOID12B
AB2495 DYNAMIC HEIGHT - 5.211 (meters) 17.10 (feet) COMP
AB2495 MODELED GRAVITY - 979,123.0 (mgal) NAVD 88
AB2495
AB2495 VERT ORDER - SECOND CLASS I
AB2495
AB2495 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AB2495 Standards:
AB2495 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AB2495 Horiz Ellip SD_N SD_E SD_h (unitless)
AB2495 -----
AB2495 NETWORK 0.77 1.31 0.33 0.30 0.67 -0.03218746
AB2495 -----
AB2495 Click here for local accuracies and other accuracy information.
AB2495
AB2495
AB2495.The horizontal coordinates were established by GPS observations
AB2495.and adjusted by the National Geodetic Survey in June 2012.
AB2495
AB2495.NAD 83(2011) refers to NAD 83 coordinates where the reference
AB2495.frame has been affixed to the stable North American tectonic plate. See
AB2495.NA2011 for more information.
AB2495
AB2495.The horizontal coordinates are valid at the epoch date displayed above
AB2495.which is a decimal equivalence of Year/Month/Day.
AB2495
AB2495.The orthometric height was determined by differential leveling and
AB2495.adjusted by the NATIONAL GEODETIC SURVEY
AB2495.in August 2002.
AB2495
AB2495.Significant digits in the geoid height do not necessarily reflect accuracy.
AB2495.GEOID12B height accuracy estimate available here.
AB2495
AB2495.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AB2495
AB2495.The Laplace correction was computed from DEFLEC12B derived deflections.
AB2495
    
```

AB2495.The ellipsoidal height was determined by GPS observations  
 AB2495.and is referenced to NAD 83.

AB2495

AB2495.The dynamic height is computed by dividing the NAVD 88  
 AB2495.geopotential number by the normal gravity value computed on the  
 AB2495.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
 AB2495.degrees latitude (g = 980.6199 gals.).

AB2495

AB2495.The modeled gravity was interpolated from observed gravity values.

AB2495

AB2495. The following values were computed from the NAD 83(2011) position.

AB2495

AB2495;		North	East	Units	Scale	Factor	Converg.
AB2495;SPC FL E	-	322,800.014	273,855.201	MT	1.00000849	+0 20	29.1
AB2495;SPC FL E	-	1,059,053.05	898,473.27	sFT	1.00000849	+0 20	29.1
AB2495;UTM 17	-	3,013,821.858	573,830.002	MT	0.99966729	+0 20	29.1
AB2495!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
AB2495!SPC FL E	-	1.00000351	x	1.00000849	=	1.00001200	
AB2495!UTM 17	-	1.00000351	x	0.99966729	=	0.99967079	

AB2495

SUPERSEDED SURVEY CONTROL

AB2495

AB2495	NAD 83(2007)-	27 14 42.98080(N)	080 15 15.29158(W)	AD(2002.00)	0
AB2495	ELLIP H (02/10/07)	-22.294 (m)		GP(2002.00)	
AB2495	NAD 83(1999)-	27 14 42.98099(N)	080 15 15.29194(W)	AD( )	1
AB2495	ELLIP H (06/19/01)	-22.274 (m)		GP( )	4 1
AB2495	NAD 83(1990)-	27 14 42.97973(N)	080 15 15.29087(W)	AD( )	1
AB2495	ELLIP H (03/26/96)	-22.262 (m)		GP( )	3 2
AB2495	NAVD 88 (03/26/96)	5.2 (m)	GEOID93 model used	GPS OBS	

AB2495

AB2495.Superseded values are not recommended for survey control.

AB2495

AB2495.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AB2495.[See file dsdata.txt](#) to determine how the superseded data were derived.

AB2495

AB2495\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL7383013821(NAD 83)

AB2495

AB2495\_MARKER: DD = SURVEY DISK

AB2495\_SETTING: 9 = SET IN PREFABRICATED CONCRETE POST IMBEDDED IN GROUND

AB2495\_STAMPING: GS 41 1992

AB2495\_MARK LOGO: FL-085

AB2495\_PROJECTION: FLUSH

AB2495\_MAGNETIC: N = NO MAGNETIC MATERIAL

AB2495\_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

AB2495\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AB2495+SATELLITE: SATELLITE OBSERVATIONS - March 17, 2009

AB2495

AB2495	HISTORY	-	Date	Condition	Report By
AB2495	HISTORY	-	1992	MONUMENTED	KEISCH
AB2495	HISTORY	-	19950209	GOOD	SFLWMD
AB2495	HISTORY	-	20010730	GOOD	GCIYI
AB2495	HISTORY	-	20020408	GOOD	GCIYI
AB2495	HISTORY	-	20080118	GOOD	GCIYI
AB2495	HISTORY	-	20090317	GOOD	JOHNSN
AB2495	HISTORY	-	20110621	MARK NOT FOUND	FLDEP

AB2495

STATION DESCRIPTION

AB2495

AB2495'DESCRIBED BY S FL WATER MGMT DIST 1995 (MEH)

AB2495'RECOVERED AS DESCRIBED.

AB2495

STATION RECOVERY (2001)

AB2495

AB2495'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (PA)

AB2495'RECOVERED IN GOOD CONDITION.

AB2495  
AB2495 STATION RECOVERY (2002)  
AB2495  
AB2495'RECOVERY NOTE BY G.C.Y., INCORPORATED 2002 (PA)  
AB2495'MARK RECOVERED AS DESCRIBED.  
AB2495'  
AB2495  
AB2495 STATION RECOVERY (2008)  
AB2495  
AB2495'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MEL)  
AB2495'RECOVERED IN GOOD CONDITION.  
AB2495  
AB2495 STATION RECOVERY (2009)  
AB2495  
AB2495'RECOVERY NOTE BY JOHNSON ENGINEERING INCORPORATED 2009 (TL)  
AB2495'RECOVERED IN GOOD CONDITION.  
AB2495  
AB2495 STATION RECOVERY (2011)  
AB2495  
AB2495'RECOVERY NOTE BY FL DEPT OF ENV PRO 2011 (DMP)  
AB2495'NOT RECOVERED. A THOROUGH SEARCH REVEALED NO EVIDENCE OF THE MARK.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = DECEMBER 7, 2015
AF3191 *****
AF3191 DESIGNATION - J 236
AF3191 PID - AF3191
AF3191 STATE/COUNTY- FL/ST LUCIE
AF3191 COUNTRY - US
AF3191 USGS QUAD - ANKONA (1983)
AF3191
AF3191 *CURRENT SURVEY CONTROL
AF3191
AF3191* NAD 83(1986) POSITION- 27 17 32. (N) 080 15 13. (W) SCALED
AF3191* NAVD 88 ORTHO HEIGHT - 7.038 (meters) 23.09 (feet) ADJUSTED
AF3191
AF3191 GEOID HEIGHT - -27.569 (meters) GEOID12B
AF3191 DYNAMIC HEIGHT - 7.027 (meters) 23.05 (feet) COMP
AF3191 MODELED GRAVITY - 979,130.9 (mgal) NAVD 88
AF3191
AF3191 VERT ORDER - FIRST CLASS I
AF3191
AF3191.The horizontal coordinates were scaled from a topographic map and have
AF3191.an estimated accuracy of +/- 6 seconds.
AF3191.
AF3191.The orthometric height was determined by differential leveling and
AF3191.adjusted by the NATIONAL GEODETIC SURVEY
AF3191.in June 1991.
AF3191
AF3191.Significant digits in the geoid height do not necessarily reflect accuracy.
AF3191.GEOID12B height accuracy estimate available here.
AF3191
AF3191.The dynamic height is computed by dividing the NAVD 88
AF3191.geopotential number by the normal gravity value computed on the
AF3191.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF3191.degrees latitude (g = 980.6199 gals.).
AF3191
AF3191.The modeled gravity was interpolated from observed gravity values.
AF3191
AF3191; North East Units Estimated Accuracy
AF3191;SPC FL E - 328,000. 273,890. MT (+/- 180 meters Scaled)
AF3191
AF3191 SUPERSEDED SURVEY CONTROL
AF3191
AF3191 NGVD 29 (??/??/92) 7.489 (m) 24.57 (f) ADJ UNCH 1 1
AF3191
AF3191.Superseded values are not recommended for survey control.
AF3191
AF3191.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AF3191.See file dsdata.txt to determine how the superseded data were derived.
AF3191
AF3191_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL738190(NAD 83)
AF3191
AF3191_MARKER: DB = BENCH MARK DISK
AF3191_SETTING: 46 = COPPER-CLAD STEEL ROD W/O SLEEVE (10 FT.+)
AF3191_STAMPING: J 236 1965
AF3191_MARK LOGO: CGS
AF3191_PROJECTION: FLUSH
AF3191_MAGNETIC: I = MARKER IS A STEEL ROD

```

## DATASHEETS

AF3191\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL  
 AF3191\_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR  
 AF3191+SATELLITE: SATELLITE OBSERVATIONS - August 31, 2006  
 AF3191\_ROD/PIPE-DEPTH: 12.2 meters

AF3191	HISTORY	- Date	Condition	Report By
AF3191	HISTORY	- 1965	MONUMENTED	CGS
AF3191	HISTORY	- 1972	GOOD	NGS
AF3191	HISTORY	- 1988	GOOD	USPSQD
AF3191	HISTORY	- 1990	GOOD	USPSQD
AF3191	HISTORY	- 1991	GOOD	USPSQD
AF3191	HISTORY	- 19910130	GOOD	NGS
AF3191	HISTORY	- 20050604	GOOD	GCIYI
AF3191	HISTORY	- 20050811	GOOD	GCIYI
AF3191	HISTORY	- 20060831	GOOD	FLDEP
AF3191	HISTORY	- 20080117	GOOD	GCIYI

AF3191  
 AF3191 STATION DESCRIPTION

AF3191'DESCRIBED BY COAST AND GEODETIC SURVEY 1965  
 AF3191'11.3 MI S FROM FT PIERCE.  
 AF3191'ABOUT 11.3 MILES SOUTH ALONG THE FLORIDA EAST COAST RAILWAY FROM  
 AF3191'THE STATION AT FT PIERCE, ABOUT 0.4 MILE SOUTH OF THE CROSSING  
 AF3191'OF WALTON ROAD, IN SECTION 5, R 41 E, T 37 S, AT A SAND ROAD  
 AF3191'CROSSING, 186 FEET SOUTHWEST OF MILEPOST 253, 191 FEET NORTHWEST  
 AF3191'OF THE CENTER OF THE CROSSING OF SAND ROAD AND THE WEST TRACK,  
 AF3191'43.1 FEET WEST OF THE WEST RAIL OF THE WEST TRACK, 21 1/2 FEET  
 AF3191'EAST OF THE CENTER LINE OF A NORTH-SOUTH SAND ROAD, 1 1/2 FEET  
 AF3191'NORTH OF A POWER LINE POLE, 1.9 FEET SOUTH OF A METAL WITNESS  
 AF3191'POST, ABOUT LEVEL WITH THE SAND ROAD, 2 FEET BELOW THE LEVEL  
 AF3191'OF THE TRACK AND IS A DISK ON THE TOP OF A COPPER COATED STEEL  
 AF3191'ROD PROJECTING 2 INCHES ABOVE THE LEVEL OF THE GROUND AND  
 AF3191'PROTECTED BY A 5 INCH METAL PIPE WHICH PROJECTS 6 INCHES ABOVE  
 AF3191'THE LEVEL OF THE GROUND. THE ROD WAS DRIVEN TO A DEPTH OF 40  
 AF3191'FEET. MARK MAY ALSO BE REACHED BY GOING 8.4 MILES NORTH ALONG  
 AF3191'THE FLORIDA EAST COAST RAILWAY FROM THE STATION AT STUART.

AF3191  
 AF3191 STATION RECOVERY (1972)

AF3191  
 AF3191'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1972  
 AF3191'RECOVERED IN GOOD CONDITION.

AF3191  
 AF3191 STATION RECOVERY (1988)

AF3191  
 AF3191'RECOVERY NOTE BY US POWER SQUADRON 1988 (DHF)  
 AF3191'RECOVERED IN GOOD CONDITION.

AF3191  
 AF3191 STATION RECOVERY (1990)

AF3191  
 AF3191'RECOVERY NOTE BY US POWER SQUADRON 1990 (DHF)  
 AF3191'RECOVERED IN GOOD CONDITION.

AF3191  
 AF3191 STATION RECOVERY (1991)

AF3191  
 AF3191'RECOVERY NOTE BY US POWER SQUADRON 1991 (DHF)  
 AF3191'RECOVERED IN GOOD CONDITION.

AF3191  
 AF3191 STATION RECOVERY (1991)

AF3191  
 AF3191'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991  
 AF3191'5.3 KM (3.3 MI) NORTHWESTERLY ALONG COUNTY ROAD 707 (NORTHEAST INDIAN  
 AF3191'RIVER DRIVE) FROM THE JUNCTION OF STATE HIGHWAY 732 (SOUTHEAST  
 AF3191'CAUSEWAY ROAD) IN JENSEN BEACH, THENCE 0.3 KM (0.2 MI) WESTERLY ALONG  
 AF3191'RIVERVIEW DRIVE, 55.5 M (182.1 FT) NORTHWEST OF THE CENTER OF THE  
 AF3191'DRIVE, 17.2 M (56.4 FT) SOUTHWEST OF THE NEAR RAIL, 6.9 M (22.6 FT)  
 AF3191'NORTHEAST OF THE CENTER OF CONANT ROAD, AND 0.6 M (2.0 FT) SOUTHEAST

AF3191'OF A WITNESS POST. NOTE--THE DISK IS ENCASED IN A 4-INCH METAL PIPE  
AF3191'THAT IS FLUSH WITH THE GROUND SURFACE.

AF3191

STATION RECOVERY (2005)

AF3191

AF3191'RECOVERY NOTE BY G.C.Y., INCORPORATED 2005 (PA)

AF3191'RECOVERED IN GOOD CONDITION. NOTE-- CONANT ROAD IS NOW GUMBO LIMBO

AF3191'LANE AND MARK IS NOW RECESSED ABOUT 6 IN BELOW CURRENT GRADE.

AF3191

AF3191 STATION RECOVERY (2005)

AF3191

AF3191'RECOVERY NOTE BY G.C.Y., INCORPORATED 2005 (JES)

AF3191'CONANT ROAD IS NOW GUMBO LIMBO LANE.

AF3191

AF3191 STATION RECOVERY (2006)

AF3191

AF3191'RECOVERY NOTE BY FL DEPT OF ENV PRO 2006 (BPJ)

AF3191'RECOVERED IN GOOD CONDITION WITH A NEW TO REACH AS FOLLOWS, TO REACH

AF3191'THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 1 AND SOUTHEAST PORT

AF3191'ST. LUCIE BOULEVARD (STATE ROAD 710) IN PORT ST. LUCIE, GO NORTHWEST

AF3191'ON U.S. HIGHWAY 1 FOR 2.1 MI TO THE INTERSECTION OF MIDPORT ROAD ON

AF3191'THE LEFT AND WALTON ROAD ON THE RIGHT, TURN RIGHT ON WALTON ROAD AND

AF3191'GO EAST FOR 3.1 MI TO THE JUNCTION OF COUNTY ROAD 707 (SOUTH INDIAN

AF3191'RIVER ROAD) ON THE RIGHT, TURN RIGHT ON COUNTY ROAD 707 AND GO

AF3191'SOUTHEAST FOR 0.45 MI TO THE JUNCTION OF RIVERVIEW DRIVE ON THE

AF3191'RIGHT, TURN RIGHT ON RIVERVIEW DRIVE AND GO WEST FOR 0.15 MI TO THE

AF3191'JUNCTION OF GUMBO LIMBO LANE ON THE RIGHT, TURN RIGHT ON GUMBO LIMBO

AF3191'LANE AND GO NORTHWEST FOR ABOUT 50 YARDS TO THE MARK ON THE RIGHT.

AF3191

AF3191 STATION RECOVERY (2008)

AF3191

AF3191'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MEL)

AF3191'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02



# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = DECEMBER 7, 2015
AA5078 *****
AA5078 DESIGNATION - SAV 9
AA5078 PID - AA5078
AA5078 STATE/COUNTY- FL/ST LUCIE
AA5078 COUNTRY - US
AA5078 USGS QUAD - ANKONA (1983)
AA5078
AA5078 *CURRENT SURVEY CONTROL
AA5078
AA5078* NAD 83(2011) POSITION- 27 17 49.17957(N) 080 15 59.85658(W) ADJUSTED
AA5078* NAD 83(2011) ELLIP HT- -22.233 (meters) (06/27/12) ADJUSTED
AA5078* NAD 83(2011) EPOCH - 2010.00
AA5078* NAVD 88 ORTHO HEIGHT - 5.280 (meters) 17.32 (feet) ADJUSTED
AA5078
AA5078 NAD 83(2011) X - 958,902.850 (meters) COMP
AA5078 NAD 83(2011) Y - -5,590,205.007 (meters) COMP
AA5078 NAD 83(2011) Z - 2,907,488.405 (meters) COMP
AA5078 LAPLACE CORR - -2.50 (seconds) DEFLEC12B
AA5078 GEOID HEIGHT - -27.540 (meters) GEOID12B
AA5078 DYNAMIC HEIGHT - 5.272 (meters) 17.30 (feet) COMP
AA5078 MODELED GRAVITY - 979,131.0 (mgal) NAVD 88
AA5078
AA5078 VERT ORDER - FIRST CLASS II
AA5078
AA5078 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AA5078 Standards:
AA5078 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AA5078 Horiz Ellip SD_N SD_E SD_h (unitless)
AA5078 -----
AA5078 NETWORK 1.04 1.18 0.46 0.38 0.60 0.12651665
AA5078 -----
AA5078 Click here for local accuracies and other accuracy information.
AA5078
AA5078
AA5078.The horizontal coordinates were established by GPS observations
AA5078.and adjusted by the National Geodetic Survey in June 2012.
AA5078
AA5078.NAD 83(2011) refers to NAD 83 coordinates where the reference
AA5078.frame has been affixed to the stable North American tectonic plate. See
AA5078.NA2011 for more information.
AA5078
AA5078.The horizontal coordinates are valid at the epoch date displayed above
AA5078.which is a decimal equivalence of Year/Month/Day.
AA5078
AA5078.The orthometric height was determined by differential leveling and
AA5078.adjusted by the NATIONAL GEODETIC SURVEY
AA5078.in November 2008.
AA5078
AA5078.No vertical observational check was made to the station.
AA5078
AA5078.Significant digits in the geoid height do not necessarily reflect accuracy.
AA5078.GEOID12B height accuracy estimate available here.
AA5078
AA5078.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AA5078

```

AA5078.The Laplace correction was computed from DEFLEC12B derived deflections.

AA5078

AA5078.The ellipsoidal height was determined by GPS observations

AA5078.and is referenced to NAD 83.

AA5078

AA5078.The dynamic height is computed by dividing the NAVD 88

AA5078.geopotential number by the normal gravity value computed on the

AA5078.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AA5078.degrees latitude (g = 980.6199 gals.).

AA5078

AA5078.The modeled gravity was interpolated from observed gravity values.

AA5078

AA5078. The following values were computed from the NAD 83(2011) position.

AA5078

AA5078;		North	East	Units	Scale Factor	Converg.
AA5078;SPC FL E	-	328,523.904	272,595.556	MT	1.00000621	+0 20 10.8
AA5078;SPC FL E	-	1,077,832.18	894,340.59	sFT	1.00000621	+0 20 10.8
AA5078;UTM 17	-	3,019,543.795	572,570.787	MT	0.99966501	+0 20 10.8

AA5078

AA5078! - Elev Factor x Scale Factor = Combined Factor

AA5078!SPC FL E - 1.00000349 x 1.00000621 = 1.00000970

AA5078!UTM 17 - 1.00000349 x 0.99966501 = 0.99966850

AA5078

AA5078

#### SUPERSEDED SURVEY CONTROL

AA5078

AA5078 NAD 83(2007)- 27 17 49.17962(N) 080 15 59.85722(W) AD(2002.00) 0

AA5078 ELLIP H (02/10/07) -22.210 (m) GP(2002.00)

AA5078 NAD 83(1999)- 27 17 49.17983(N) 080 15 59.85748(W) AD( ) 2

AA5078 ELLIP H (07/06/01) -22.198 (m) GP( ) 4 2

AA5078 NAD 83(1990)- 27 17 49.17859(N) 080 15 59.85638(W) AD( ) 2

AA5078 ELLIP H (03/31/95) -22.158 (m) GP( ) 4 1

AA5078 NAVD 88 (03/31/95) 5.3 (m) GEOID93 model used GPS OBS

AA5078

AA5078.Superseded values are not recommended for survey control.

AA5078

AA5078.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AA5078.[See file dsdata.txt](#) to determine how the superseded data were derived.

AA5078

AA5078\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL7257019543(NAD 83)

AA5078

AA5078\_MARKER: DD = SURVEY DISK

AA5078\_SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL

AA5078+WITH SETTING: INFORMATION.

AA5078\_STAMPING: GCY INC. GPS SAV 9

AA5078\_MARK LOGO: GCYI

AA5078\_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT

AA5078\_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

AA5078\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AA5078+SATELLITE: SATELLITE OBSERVATIONS - August 29, 2006

AA5078

AA5078	HISTORY	- Date	Condition	Report By
AA5078	HISTORY	- 1992	MONUMENTED	GCYI
AA5078	HISTORY	- 20050811	GOOD	GCYI
AA5078	HISTORY	- 20060829	GOOD	FLDEP

AA5078 HISTORY - 1992 MONUMENTED GCYI

AA5078 HISTORY - 20050811 GOOD GCYI

AA5078 HISTORY - 20060829 GOOD FLDEP

AA5078

AA5078

#### STATION DESCRIPTION

AA5078

AA5078'DESCRIBED BY G.C.Y., INCORPORATED 1992 (GCY)

AA5078'IN ST. LUCIE COUNTY, SOUTH ON MIDPORT RD. FROM THE U.S. POST OFFICE

AA5078'0.15 MI (0.24 KM) TO PORT ST. LUCIE BLVD. EAST ON PORT ST. LUCIE

AA5078'BLVD. 1.65 MI (2.66 KM) TO U.S. HIGHWAY NO. 1, NORTH ON U.S. HIGHWAY

AA5078'NO. 1, 2.0 MI (3.2 KM) TO WALTON RD. EAST ON WALTON RD. 2.3 MI (3.7

AA5078'KM) TO GREEN RIVER PARKWAY. SOUTH ON GREEN RIVER PARKWAY 0.20 MI

AA5078'(0.32 KM) TO GPS MARK SAV 9. THE MARK IS LOCATED 74.0 FT (22.6 M)

AA5078'EAST OF THE EAST EDGE OF PAVEMENT OF SAID PARKWAY ON THE WEST TOP OF

AA5078'BANK OF AN EXISTING CANAL, 500.26 FT (152.48 M) SOUTHEASTERLY OF A

## DATASHEETS

AA5078'REFERENCE MARK SET 1.0 FT (0.3 M) WEST OF THE EAST EDGE OF PAVEMENT  
AA5078'ACROSS FROM A HOUSE AT 2766 GREEN RIVER PARKWAY, 290.48 FT (88.54 M)  
AA5078'SOUTHEASTERLY OF A REFERENCE MARK SET IN A WOOD POWER POLE (NO  
AA5078'NUMBER), BEING THE FOURTH POLE SOUTH OF WALTON RD., 154.29 FT (47.03  
AA5078'M) EASTERLY OF A REFERENCE MARK SET IN A SECOND WOOD POWER POLE (POLE  
AA5078'NO. 6-6765-6252-0-9), BEING THE FIFTH POLE SOUTH OF WALTON RD., 138.90  
AA5078'FT (42.34 M) NORTHEASTERLY OF A REFERENCE MARK SET IN A THIRD WOOD  
AA5078'POWER POLE (NO NUMBER), BEING THE SIXTH POLE SOUTH OF WALTON RD. ALL  
AA5078'POLES ARE ON THE WEST SIDE OF GREEN RIVER PARKWAY AND ALL REFERENCE  
AA5078'MARKS ARE P.K. NAIL AND DISKS STAMPED W.E.S. TRAVERSE PT. AND NEAR A 2  
AA5078'1/2" DIAMETER GALVANIZED METAL WITNESS POST. THERE IS A SECONDARY  
AA5078'MARK LOCATED APPROXIMATELY 3.0 FT (0.9 M) BELOW SAID MARK, SAID MARK  
AA5078'BEING A 1/2" IRON ROD WITH CAP MARKED GCY, INC. TRAVERSE PT.

AA5078

AA5078 STATION RECOVERY (2005)

AA5078

AA5078'RECOVERY NOTE BY G.C.Y., INCORPORATED 2005 (JES)

AA5078'RECOVERED AS DESCRIBED.

AA5078

AA5078 STATION RECOVERY (2006)

AA5078

AA5078'RECOVERY NOTE BY FL DEPT OF ENV PRO 2006 (BPJ)

AA5078'RECOVERED AS DESCRIBED.

\*\*\* retrieval complete.

Elapsed Time = 00:00:03

# The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,   Retrieval Date = DECEMBER 7, 2015
DH9605 *****
DH9605 DESIGNATION - U 626
DH9605 PID - DH9605
DH9605 STATE/COUNTY- FL/MIAMI-DADE
DH9605 COUNTRY - US
DH9605 USGS QUAD - HIALEAH SW (1988)
DH9605
DH9605 *CURRENT SURVEY CONTROL
DH9605
DH9605* NAD 83(1986) POSITION- 25 45 39. (N) 080 28 53. (W) SCALED
DH9605* NAVD 88 ORTHO HEIGHT - 3.776 (meters) 12.39 (feet) ADJUSTED
DH9605
DH9605 GEOID HEIGHT - -24.715 (meters) GEOID12B
DH9605 DYNAMIC HEIGHT - 3.770 (meters) 12.37 (feet) COMP
DH9605 MODELED GRAVITY - 979,030.7 (mgal) NAVD 88
DH9605
DH9605 VERT ORDER - FIRST CLASS II
DH9605
DH9605.The horizontal coordinates were scaled from a topographic map and have
DH9605.an estimated accuracy of +/- 6 seconds.
DH9605.
DH9605.The orthometric height was determined by differential leveling and
DH9605.adjusted by the NATIONAL GEODETIC SURVEY
DH9605.in July 2006.
DH9605
DH9605.Significant digits in the geoid height do not necessarily reflect accuracy.
DH9605.GEOID12B height accuracy estimate available here.
DH9605
DH9605.Photographs are available for this station.
DH9605
DH9605.The dynamic height is computed by dividing the NAVD 88
DH9605.geopotential number by the normal gravity value computed on the
DH9605.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DH9605.degrees latitude (g = 980.6199 gals.).
DH9605
DH9605.The modeled gravity was interpolated from observed gravity values.
DH9605
DH9605;
DH9605;SPC FL E - North East Units Estimated Accuracy
DH9605; 158,220. 252,020. MT (+/- 180 meters Scaled)
DH9605
DH9605 SUPERSEDED SURVEY CONTROL
DH9605
DH9605.No superseded survey control is available for this station.
DH9605
DH9605_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ520493(NAD 83)
DH9605
DH9605_MARKER: DD = SURVEY DISK
DH9605_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE
DH9605_SP_SET: BRIDGE ABUTMENT
DH9605_STAMPING: U 626 2005
DH9605_MARK LOGO: FLDEP
DH9605_MAGNETIC: N = NO MAGNETIC MATERIAL
DH9605_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DH9605_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DH9605+SATELLITE: SATELLITE OBSERVATIONS - March 17, 2005

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DH9605				
DH9605	HISTORY	- Date	Condition	Report By
DH9605	HISTORY	- 20050317	MONUMENTED	FLDEP
DH9605	HISTORY	- 20080201	GOOD	GCYI
DH9605	HISTORY	- 20091201	GOOD	DCPW

DH9605

DH9605

DH9605

## STATION DESCRIPTION

DH9605'DESCRIBED BY FL DEPT OF ENV PRO 2005 (JLM)

DH9605'THE MARK IS ABOUT 18.2 MI NORTH OF HOMESTEAD, 11.0 MI SOUTHWEST OF  
DH9605'HIALEAH, 10.0 MI NORTHWEST OF KENDALL, IN SECTION 1, TOWNSHIP 54  
DH9605'SOUTH, RANGE 38 EAST.

DH9605'

DH9605'THE MARK IS AT THE JUNCTION OF STATE HIGHWAY 997 (KROME AVENUE, SW 177  
DH9605'AVENUE) AND U.S. HIGHWAY 41 (TAMIAMI TRAIL, SW 8TH ST), SET IN THE  
DH9605'TOP OF THE SOUTHWEST BRIDGE ABUTMENT OF THE BRIDGE SPANNING A CANAL  
DH9605'ABOUT 0.5 FT BELOW THE LEVEL OF HIGHWAY 997.

DH9605'

DH9605'LOCATED ABOUT 63.0 FT NORTH OF THE NORTH EDGE OF U.S. HIGHWAY 41  
DH9605'WESTBOUND LANES, 45.0 FT SOUTH OF THE APPROXIMATE CENTERLINE OF THE  
DH9605'CANAL, 36.0 FT NORTH-NORTHEAST OF THE SOUTHWEST END OF THE BRIDGE  
DH9605'RAIL, 12.0 FT WEST OF THE WEST EDGE OF STATE HIGHWAY 997, 1.8 FT  
DH9605'SOUTH OF THE NORTHWEST CORNER OF THE ABUTMENT, 1.0 FT SOUTH OF AN  
DH9605'ALUMINUM POST WITH A HIGHWAY ROAD SIGN ATTACHED AND 0.5 FT WEST OF  
DH9605'THE WEST FACE OF THE BRIDGE WALKWAY.

DH9605

DH9605

DH9605

## STATION RECOVERY (2008)

DH9605'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MDL)  
DH9605'RECOVERED IN GOOD CONDITION.

DH9605

DH9605

DH9605

## STATION RECOVERY (2009)

DH9605'RECOVERY NOTE BY DOUGLAS COUNTY PUBLIC WORKS 2009  
DH9605'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

# The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = DECEMBER 7, 2015
AA5069 *****
AA5069 DESIGNATION - WEATHERINGTON
AA5069 PID - AA5069
AA5069 STATE/COUNTY- FL/ST LUCIE
AA5069 COUNTRY - US
AA5069 USGS QUAD - ANKONA (1983)
AA5069
AA5069 *CURRENT SURVEY CONTROL
AA5069
AA5069* NAD 83(2011) POSITION- 27 17 55.62811(N) 080 15 24.14800(W) ADJUSTED
AA5069* NAD 83(2011) ELLIP HT- -18.773 (meters) (06/27/12) ADJUSTED
AA5069* NAD 83(2011) EPOCH - 2010.00
AA5069* NAVD 88 ORTHO HEIGHT - 8.773 (meters) 28.78 (feet) ADJUSTED
AA5069
AA5069 NAD 83(2011) X - 959,855.727 (meters) COMP
AA5069 NAD 83(2011) Y - -5,589,952.232 (meters) COMP
AA5069 NAD 83(2011) Z - 2,907,666.373 (meters) COMP
AA5069 LAPLACE CORR - -2.58 (seconds) DEFLEC12B
AA5069 GEOID HEIGHT - -27.564 (meters) GEOID12B
AA5069 DYNAMIC HEIGHT - 8.759 (meters) 28.74 (feet) COMP
AA5069 MODELED GRAVITY - 979,131.5 (mgal) NAVD 88
AA5069
AA5069 VERT ORDER - FIRST CLASS II
AA5069
AA5069 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AA5069 Standards:
AA5069 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AA5069 Horiz Ellip SD_N SD_E SD_h (unitless)
AA5069 -----
AA5069 NETWORK 0.80 0.84 0.34 0.31 0.43 0.06971765
AA5069 -----
AA5069 Click here for local accuracies and other accuracy information.
AA5069
AA5069
AA5069.The horizontal coordinates were established by GPS observations
AA5069.and adjusted by the National Geodetic Survey in June 2012.
AA5069
AA5069.NAD 83(2011) refers to NAD 83 coordinates where the reference
AA5069.frame has been affixed to the stable North American tectonic plate. See
AA5069.NA2011 for more information.
AA5069
AA5069.The horizontal coordinates are valid at the epoch date displayed above
AA5069.which is a decimal equivalence of Year/Month/Day.
AA5069
AA5069.The orthometric height was determined by differential leveling and
AA5069.adjusted by the NATIONAL GEODETIC SURVEY
AA5069.in November 2008.
AA5069
AA5069.No vertical observational check was made to the station.
AA5069
AA5069.Significant digits in the geoid height do not necessarily reflect accuracy.
AA5069.GEOID12B height accuracy estimate available here.
AA5069
AA5069.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AA5069

```

AA5069.The Laplace correction was computed from DEFLEC12B derived deflections.

AA5069

AA5069.The ellipsoidal height was determined by GPS observations

AA5069.and is referenced to NAD 83.

AA5069

AA5069.The dynamic height is computed by dividing the NAVD 88

AA5069.geopotential number by the normal gravity value computed on the

AA5069.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AA5069.degrees latitude (g = 980.6199 gals.).

AA5069

AA5069.The modeled gravity was interpolated from observed gravity values.

AA5069

AA5069. The following values were computed from the NAD 83(2011) position.

AA5069

AA5069;		North	East	Units	Scale Factor	Converg.
AA5069;SPC FL E	-	328,728.192	273,576.280	MT	1.00000798	+0 20 27.3
AA5069;SPC FL E	-	1,078,502.41	897,558.18	sFT	1.00000798	+0 20 27.3
AA5069;UTM 17	-	3,019,748.013	573,551.176	MT	0.99966678	+0 20 27.3

AA5069

AA5069! - Elev Factor x Scale Factor = Combined Factor

AA5069!SPC FL E - 1.00000295 x 1.00000798 = 1.00001093

AA5069!UTM 17 - 1.00000295 x 0.99966678 = 0.99966973

AA5069

SUPERSEDED SURVEY CONTROL

AA5069

AA5069	NAD 83(2007)-	27 17 55.62816(N)	080 15 24.14863(W)	AD(2002.00)	0
AA5069	ELLIP H (02/10/07)	-18.751 (m)		GP(2002.00)	
AA5069	NAD 83(1999)-	27 17 55.62840(N)	080 15 24.14886(W)	AD( )	1
AA5069	ELLIP H (06/19/01)	-18.740 (m)		GP( )	4 1
AA5069	NAD 83(1990)-	27 17 55.62712(N)	080 15 24.14784(W)	AD( )	1
AA5069	ELLIP H (03/31/95)	-18.689 (m)		GP( )	4 1
AA5069	NAVD 88 (03/31/95)	8.8 (m)	GEOID93 model used	GPS OBS	

AA5069

AA5069.Superseded values are not recommended for survey control.

AA5069

AA5069.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AA5069.[See file dsdata.txt](#) to determine how the superseded data were derived.

AA5069

AA5069\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL7355119748(NAD 83)

AA5069

AA5069\_MARKER: DD = SURVEY DISK

AA5069\_SETTING: 9 = SET IN PREFABRICATED CONCRETE POST IMBEDDED IN GROUND

AA5069\_STAMPING: GCY INC GPS WEATHERINGTON

AA5069\_MARK LOGO: GCYI

AA5069\_PROJECTION: RECESSED 8 CENTIMETERS

AA5069\_MAGNETIC: R = STEEL ROD IMBEDDED IN MONUMENT

AA5069\_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

AA5069\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AA5069+SATELLITE: SATELLITE OBSERVATIONS - January 17, 2008

AA5069

AA5069	HISTORY	- Date	Condition	Report By
AA5069	HISTORY	- 1991	MONUMENTED	GCYI
AA5069	HISTORY	- 19930913	GOOD	GENGRP
AA5069	HISTORY	- 20050604	GOOD	GCYI
AA5069	HISTORY	- 20060829	GOOD	FLDEP
AA5069	HISTORY	- 20080117	GOOD	GCYI

AA5069

STATION DESCRIPTION

AA5069

AA5069'DESCRIBED BY G.C.Y., INCORPORATED 1991 (GCY)

AA5069'IN ST. LUCIE COUNTY, SOUTH ON MIDPORT RD. FROM THE U.S. POST OFFICE

AA5069'0.15 MI (0.24 KM) TO PORT ST. LUCIE BLVD. EAST ON PORT ST. LUCIE

AA5069'BLVD. 1.65 MI (2.66 KM) TO U.S. HIGHWAY NO. 1, NORTH ON U.S. HIGHWAY

AA5069'NO. 1, 2.0 MI (3.2 KM) TO WALTON RD., EAST ON WALTON RD. 2.9 MI (4.7

AA5069'KM) TO THE F.E.C. RAILROAD AND GPS MARK WEATHERINGTON. THE MARK IS

AA5069'LOCATED 28.0 FT (8.5 M) NORTH OF THE NORTH EDGE OF PAVEMENT OF WALTON

AA5069'RD., 25.0 FT (7.6 M) EAST OF THE EAST RAIL OF THE TRACKS, 2.0 FT (0.6  
AA5069'M) EAST OF A METAL GUARDRAIL, 186.90 FT (56.97 M) NORTHWESTERLY OF A  
AA5069'REFERENCE MARK SET IN A WOOD POWER POLE (NO NUMBER) LOCATED EAST OF  
AA5069'THE TRACKS ON THE NORTH SIDE OF WALTON RD., 108.45 FT (33.06 M)  
AA5069'NORTHERLY OF A REFERENCE MARK SET IN A SECOND WOOD POWER POLE (NO  
AA5069'NUMBER) LOCATED EAST OF THE TRACKS ON THE SOUTH SIDE OF WALTON RD.,  
AA5069'115.01 FT (35.06 M) NORTHEASTERLY OF A REFERENCE MARK SET IN A THIRD  
AA5069'WOOD POWER POLE (NO NUMBER) LOCATED WEST OF THE TRACKS ON THE SOUTH  
AA5069'SIDE OF WALTON RD. AND NEAR A 2 1/2" DIAMETER GALVANIZED METAL WITNESS  
AA5069'POST. ALL REFERENCE MARKS ARE P.K. NAIL AND DISKS STAMPED W.E.S.  
AA5069'TRAVERSE PT. THERE IS A SECONDARY MARK LOCATED APPROXIMATELY 3.0 FT  
AA5069'(0.9 M) BELOW SAID MARK, SAID MARK BEING A 1/2" IRON ROD WITH CAP  
AA5069'MARKED GCY, INC. TRAVERSE PT.

AA5069

AA5069 STATION RECOVERY (1993)

AA5069

AA5069'RECOVERY NOTE BY GENESIS GROUP INCORPORATED SE 1993 (JEK)

AA5069'RECOVERED AS DESCRIBED.

AA5069

AA5069 STATION RECOVERY (2005)

AA5069

AA5069'RECOVERY NOTE BY G.C.Y., INCORPORATED 2005 (PA)

AA5069'RECOVERED AS DESCRIBED.

AA5069

AA5069 STATION RECOVERY (2006)

AA5069

AA5069'RECOVERY NOTE BY FL DEPT OF ENV PRO 2006 (BPJ)

AA5069'RECOVERED AS DESCRIBED.

AA5069

AA5069 STATION RECOVERY (2008)

AA5069

AA5069'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MEL)

AA5069'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02



From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.

Line/Part: L26245 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation
1806	3159	AJ8574	X 543	8.1186	8.2843
1807	3160	AJ8575	Y 543	8.0291	8.1930
1808	3161	AJ8576	Z 543	8.1620	8.3286
1809	3162	AJ8577	A 544	8.0789	8.2438

# The NGS Data Sheet

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

PROGRAM = datasheet95, VERSION = 8.8

1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015

AJ8574 \*\*\*\*\*

AJ8574 DESIGNATION - X 543

AJ8574 PID - AJ8574

AJ8574 STATE/COUNTY- FL/ST LUCIE

AJ8574 COUNTRY - US

AJ8574 USGS QUAD - BLUEFIELD (1970)

AJ8574

AJ8574 \*CURRENT SURVEY CONTROL

AJ8574

AJ8574\* NAD 83(1986) POSITION- 27 12 23. (N) 080 33 02. (W) SCALED

AJ8574\* [NAVD 88](#) ORTHO HEIGHT - 7.845 (meters) 25.74 (feet) ADJUSTED

AJ8574

AJ8574 GEOID HEIGHT - -26.999 (meters) GEOID12B

AJ8574 DYNAMIC HEIGHT - 7.833 (meters) 25.70 (feet) COMP

AJ8574 MODELED GRAVITY - 979,101.9 (mgal) NAVD 88

AJ8574

AJ8574 VERT ORDER - FIRST CLASS II

AJ8574

AJ8574.The horizontal coordinates were scaled from a topographic map and have

AJ8574.an estimated accuracy of +/- 6 seconds.

AJ8574.

AJ8574.The orthometric height was determined by differential leveling and

AJ8574.adjusted by the NATIONAL GEODETIC SURVEY

AJ8574.in May 2002.

AJ8574

AJ8574.Significant digits in the geoid height do not necessarily reflect accuracy.

AJ8574.GEOID12B height accuracy estimate available [here](#).

AJ8574

AJ8574.The dynamic height is computed by dividing the NAVD 88

AJ8574.geopotential number by the normal gravity value computed on the

AJ8574.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AJ8574.degrees latitude (g = 980.6199 gals.).

AJ8574

AJ8574.The modeled gravity was interpolated from observed gravity values.

AJ8574

AJ8574; North East Units Estimated Accuracy

AJ8574;SPC FL E - 318,350. 244,530. MT (+/- 180 meters Scaled)

AJ8574

AJ8574 SUPERSEDED SURVEY CONTROL

AJ8574

AJ8574.No superseded survey control is available for this station.

AJ8574

AJ8574\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL445093(NAD 83)

AJ8574

AJ8574\_MARKER: DD = SURVEY DISK

AJ8574\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

AJ8574\_STAMPING: X 543 2001 CERP

AJ8574\_MARK LOGO: USE

AJ8574\_PROJECTION: RECESSED 8 CENTIMETERS

AJ8574\_MAGNETIC: O = OTHER; SEE DESCRIPTION

AJ8574\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AJ8574+STABILITY: SURFACE MOTION

AJ8574\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AJ8574+SATELLITE: SATELLITE OBSERVATIONS - January 29, 2008

AJ8574

AJ8574	HISTORY	- Date	Condition	Report By
AJ8574	HISTORY	- 20010918	MONUMENTED	FOST
AJ8574	HISTORY	- 20080129	GOOD	GCYI

AJ8574

AJ8574

## STATION DESCRIPTION

AJ8574

AJ8574'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ8574'THE MONUMENT IS LOCATED 13.9 MILES (22.37 KM) NORTH OF INDIANTOWN, FL.

AJ8574'AND 17.8 MILES (28.65 KM) WEST

AJ8574'OF PALM CITY, FL., SECTION 32, TOWNSHIP 37 SOUTH, RANGE 38 EAST.

AJ8574'

AJ8574'OWNERSHIP IS SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

AJ8574'

AJ8574'TO REACH THE MONUMENT FROM THE INTERSECTION OF COUNTY ROAD 714 AND

AJ8574'COUNTY ROAD 609, 11.1 MILES

AJ8574'(17.86 KM) WEST OF THE JUNCTION OF THE FLORIDA TURNPIKE, STATE ROAD

AJ8574'714 AND COUNTY ROAD 714 IN

AJ8574'PALM CITY FL., GO NORTH ON COUNTY ROAD 609 FOR 3.0 MILES (4.83 KM) TO

AJ8574'THE NORTH END OF BRIDGE NO.

AJ8574'940026 AND TURN LEFT ONTO CANAL/ORANGE GROVE ACCESS ROAD AND GO WEST

AJ8574'0.05 MILES (0.08 KM) TO A

AJ8574'LOCKED GATE SOUTH OF CANAL LEVEE AND NORTH OF CANAL. CONTINUE WEST

AJ8574'ALONG ROADWAY AREA ON

AJ8574'THE NORTH SIDE OF CANAL 4.25 MILES (6.84 KM) TO MONUMENT LOCATION. THE

AJ8574'MONUMENT IS 0.30 MILES (0.48

AJ8574'KM) WEST OF A PUMPING STATION AND 0.25 MILES (0.40 KM) WEST OF A

AJ8574'LOCKED GATE.

AJ8574'

AJ8574'THE MONUMENT IS 15.0 FEET (4.57 M) NORTH OF THE NORTH TOP BANK OF

AJ8574'COUNTY LINE CANAL, 27.0 FEET (8.23

AJ8574'M) SOUTH OF BARBED WIRE FENCELINE, 27.0 FEET (8.23 M) SOUTH OF TOE OF

AJ8574'CANAL LEVEE AND 26.5 FEET (8.08

AJ8574'M) SOUTH OF CARSONITE WITNESS POST. NOTE A MAGNET WAS BURIED NEARBY AT

AJ8574'AN UNSPECIFIED

AJ8574'POSITION. FOR KEY, CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT,

AJ8574'WEST PALM BEACH, FL. AT

AJ8574'PHONE NUMBER (407) 686-8800.

AJ8574'

AJ8574

## STATION RECOVERY (2008)

AJ8574

AJ8574'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MEL)

AJ8574'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:01

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.

Line/Part: L26245 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

Mark ID	SSN	PID	Designation	Geopotential	Elevation
1806	3159	AJ8574	X 543	8.1186	8.2843
1807	3160	AJ8575	Y 543	8.0291	8.1930
1808	3161	AJ8576	Z 543	8.1620	8.3286
1809	3162	AJ8577	A 544	8.0789	8.2438

# The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8575 *****
AJ8575 DESIGNATION - Y 543
AJ8575 PID - AJ8575
AJ8575 STATE/COUNTY- FL/ST LUCIE
AJ8575 COUNTRY - US
AJ8575 USGS QUAD - BLUEFIELD (1970)
AJ8575
AJ8575 *CURRENT SURVEY CONTROL
AJ8575
AJ8575* NAD 83(1986) POSITION- 27 12 23. (N) 080 34 03. (W) SCALED
AJ8575* NAVD 88 ORTHO HEIGHT - 7.753 (meters) 25.44 (feet) ADJUSTED
AJ8575
AJ8575 GEOID HEIGHT - -26.977 (meters) GEOID12B
AJ8575 DYNAMIC HEIGHT - 7.741 (meters) 25.40 (feet) COMP
AJ8575 MODELED GRAVITY - 979,101.0 (mgal) NAVD 88
AJ8575
AJ8575 VERT ORDER - FIRST CLASS II
AJ8575
AJ8575.The horizontal coordinates were scaled from a topographic map and have
AJ8575.an estimated accuracy of +/- 6 seconds.
AJ8575.
AJ8575.The orthometric height was determined by differential leveling and
AJ8575.adjusted by the NATIONAL GEODETIC SURVEY
AJ8575.in May 2002.
AJ8575
AJ8575.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8575.GEOID12B height accuracy estimate available here.
AJ8575
AJ8575.The dynamic height is computed by dividing the NAVD 88
AJ8575.geopotential number by the normal gravity value computed on the
AJ8575.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8575.degrees latitude (g = 980.6199 gals.).
AJ8575
AJ8575.The modeled gravity was interpolated from observed gravity values.
AJ8575
AJ8575; North East Units Estimated Accuracy
AJ8575;SPC FL E - 318,350. 242,850. MT (+/- 180 meters Scaled)
AJ8575
AJ8575 SUPERSEDED SURVEY CONTROL
AJ8575
AJ8575.No superseded survey control is available for this station.
AJ8575
AJ8575_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL428093(NAD 83)
AJ8575
AJ8575_MARKER: DD = SURVEY DISK
AJ8575_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ8575_STAMPING: Y 543 2001 CERP
AJ8575_MARK LOGO: USE
AJ8575_PROJECTION: RECESSED 8 CENTIMETERS
AJ8575_MAGNETIC: O = OTHER; SEE DESCRIPTION
AJ8575_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ8575+STABILITY: SURFACE MOTION
AJ8575_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8575+SATELLITE: SATELLITE OBSERVATIONS - January 29, 2008
AJ8575
    
```

AJ8575	HISTORY	- Date	Condition	Report By
AJ8575	HISTORY	- 20010918	MONUMENTED	FOST
AJ8575	HISTORY	- 20080129	GOOD	GCYI

AJ8575

AJ8575

## STATION DESCRIPTION

AJ8575

AJ8575'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ8575'THE MONUMENT IS LOCATED 14.2 MILES (22.85 KM) NORTH OF INDIANTOWN, FL.

AJ8575'AND 18.8 MILES (30.26 KM) WEST

AJ8575'OF PALM CITY, FL., SECTION 31, TOWNSHIP 37 SOUTH, RANGE 38 EAST.

AJ8575'

AJ8575'OWNERSHIP IS SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

AJ8575'

AJ8575'TO REACH THE MONUMENT FROM THE INTERSECTION OF COUNTY ROAD 714 AND

AJ8575'COUNTY ROAD 609, 11.1 MILES

AJ8575'(17.86 KM) WEST OF THE JUNCTION OF THE FLORIDA TURNPIKE, STATE ROAD

AJ8575'714 AND COUNTY ROAD 714 IN

AJ8575'PALM CITY FL., GO NORTH ON COUNTY ROAD 609 FOR 3.0 MILES (4.83 KM) TO

AJ8575'THE NORTH END OF BRIDGE NO.

AJ8575'940026 AND TURN LEFT ONTO CANAL/ORANGE GROVE ACCESS ROAD AND GO WEST

AJ8575'0.05 MILES (0.08 KM) TO A

AJ8575'LOCKED GATE SOUTH OF CANAL LEVEE AND NORTH OF CANAL. CONTINUE WEST

AJ8575'ALONG ROADWAY AREA ON

AJ8575'THE NORTH SIDE OF CANAL 5.25 MILES (8.45 KM) TO MONUMENT LOCATION. THE

AJ8575'MONUMENT IS 1.30 MILES (2.09

AJ8575'KM) WEST OF A PUMPING STATION AND 1.25 MILES (2.01 KM) WEST OF A

AJ8575'LOCKED GATE.

AJ8575'

AJ8575'THE MONUMENT IS 14.0 FEET (4.27 M) NORTH OF THE NORTH TOP BANK OF

AJ8575'COUNTY LINE CANAL, 34.7 FEET (10.58

AJ8575'M) SOUTH OF BARBED WIRE FENCELINE, 36.0 FEET (10.97 M) SOUTH OF TOE OF

AJ8575'CANAL LEVEE AND 33.7 FEET (10.27

AJ8575'M) SOUTH OF CARSONITE WITNESS POST. NOTE A MAGNET WAS BURIED NEARBY AT

AJ8575'AN UNSPECIFIED

AJ8575'POSITION. FOR KEY, CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT,

AJ8575'WEST PALM BEACH, FL. AT

AJ8575'PHONE NUMBER (407) 686-8800.

AJ8575'

AJ8575

## STATION RECOVERY (2008)

AJ8575

AJ8575'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MEL)

AJ8575'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02

From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.  
 Line/Part: L26245 SSN+: mark floated, SSN\*: mark constrained, SSN#: mark floated & constrained

# The NGS Data Sheet

Mark ID	SSN	PID	Designation	Geopotential	Elevation	Codes
1806	3159	AJ8574	X 543	8.1186	8.2843	
1807	3160	AJ8575	Y 543	8.0291	8.1930	
1808	3161	AJ8576	Z 543	8.1620	8.3286	
1809	3162	AJ8577	A 544	8.0789	8.2438	

See file [dsdata.txt](#) for more information about

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PROGRAM = datasheet95, VERSION = 8.8
1 National Geodetic Survey, Retrieval Date = DECEMBER 7, 2015
AJ8576 *****
AJ8576 DESIGNATION - Z 543
AJ8576 PID - AJ8576
AJ8576 STATE/COUNTY- FL/ST LUCIE
AJ8576 COUNTRY - US
AJ8576 USGS QUAD - BLUEFIELD (1970)
AJ8576
AJ8576 *CURRENT SURVEY CONTROL
AJ8576
AJ8576* NAD 83(1986) POSITION- 27 12 35. (N) 080 34 47. (W) SCALED
AJ8576* NAVD 88 ORTHO HEIGHT - 7.888 (meters) 25.88 (feet) ADJUSTED
AJ8576
AJ8576 GEOID HEIGHT - -26.967 (meters) GEOID12B
AJ8576 DYNAMIC HEIGHT - 7.876 (meters) 25.84 (feet) COMP
AJ8576 MODELED GRAVITY - 979,100.7 (mgal) NAVD 88
AJ8576
AJ8576 VERT ORDER - FIRST CLASS II
AJ8576
AJ8576.The horizontal coordinates were scaled from a topographic map and have
AJ8576.an estimated accuracy of +/- 6 seconds.
AJ8576.
AJ8576.The orthometric height was determined by differential leveling and
AJ8576.adjusted by the NATIONAL GEODETIC SURVEY
AJ8576.in May 2002.
AJ8576
AJ8576.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8576.GEOID12B height accuracy estimate available here.
AJ8576
AJ8576.The dynamic height is computed by dividing the NAVD 88
AJ8576.geopotential number by the normal gravity value computed on the
AJ8576.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8576.degrees latitude (g = 980.6199 gals.).
AJ8576
AJ8576.The modeled gravity was interpolated from observed gravity values.
AJ8576
AJ8576; North East Units Estimated Accuracy
AJ8576;SPC FL E - 318,710. 241,640. MT (+/- 180 meters Scaled)
AJ8576
AJ8576 SUPERSEDED SURVEY CONTROL
AJ8576
AJ8576.No superseded survey control is available for this station.
AJ8576
AJ8576_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL416097(NAD 83)
AJ8576
AJ8576_MARKER: F = FLANGE-ENCASED ROD
AJ8576_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AJ8576_STAMPING: Z 543 2001 CERP
AJ8576_MARK LOGO: NONE
AJ8576_PROJECTION: RECESSED 8 CENTIMETERS
AJ8576_MAGNETIC: O = OTHER; SEE DESCRIPTION
AJ8576_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ8576_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8576+SATELLITE: SATELLITE OBSERVATIONS - January 29, 2008
AJ8576_ROD/PIPE-DEPTH: 24.4 meters
AJ8576
    
```

AJ8576	HISTORY	- Date	Condition	Report By
AJ8576	HISTORY	- 20010919	MONUMENTED	FOST
AJ8576	HISTORY	- 20080129	GOOD	GCYI

AJ8576

AJ8576

## STATION DESCRIPTION

AJ8576

AJ8576'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ8576'THE MONUMENT IS LOCATED 14.8 MILES (23.82 KM) NORTH OF INDIANTOWN, FL.

AJ8576'AND 19.6 MILES (31.54 KM)

AJ8576'NORTHWEST OF PALM CITY, FL., SECTION 31, TOWNSHIP 37 SOUTH, RANGE 38

AJ8576'EAST.

AJ8576'

AJ8576'OWNERSHIP IS SOUTH FLORIDA WATER MANAGEMENT DISTRICT.

AJ8576'

AJ8576'TO REACH THE MONUMENT FROM THE INTERSECTION OF COUNTY ROAD 714 AND

AJ8576'COUNTY ROAD 609, 11.1 MILES

AJ8576'(17.86 KM) WEST OF THE JUNCTION OF THE FLORIDA TURNPIKE, STATE ROAD

AJ8576'714 AND COUNTY ROAD 714 IN

AJ8576'PALM CITY FL., GO NORTH ON COUNTY ROAD 609 FOR 3.0 MILES (4.83 KM) TO

AJ8576'THE NORTH END OF BRIDGE NO.

AJ8576'940026 AND TURN LEFT ONTO CANAL/ORANGE GROVE ACCESS ROAD AND GO WEST

AJ8576'0.05 MILES (0.08 KM) TO A

AJ8576'LOCKED GATE SOUTH OF CANAL LEVEE AND NORTH OF CANAL. CONTINUE WEST

AJ8576'ALONG ROADWAY AREA ON

AJ8576'THE NORTH SIDE OF CANAL 6.0 MILES (9.66 KM) TO A NORTHEAST/SOUTHWEST

AJ8576'RUNNING RAILROAD CROSSING

AJ8576'WITH LOCKED GATES ON BOTH SIDES. THENCE CONTINUE NORTH 0.20 MILES

AJ8576'(0.32 KM) ALONG ROADWAY AREA

AJ8576'ON EAST SIDE OF CANAL TO MONUMENT LOCATION.

AJ8576'

AJ8576'THE MONUMENT IS 16.0 FEET (4.88 M) EAST OF THE EAST TOP BANK OF COUNTY

AJ8576'LINE CANAL, 24.0 FEET (7.32 M)

AJ8576'WEST OF BARBED WIRE FENCELINE, 30.0 FEET (9.14 M) WEST OF TOE OF CANAL

AJ8576'LEVEE AND 23.0 FEET (7.01 M)

AJ8576'WEST OF CARSONITE WITNESS POST. NOTE ACCESS TO THE DATUM POINT (TOP OF

AJ8576'A STAINLESS STEEL ROD)

AJ8576'IS HAD THROUGH A 5 INCH LOGO CAP. NOTE A MAGNET WAS PLACED INSIDE THE

AJ8576'PVC PIPE. FOR KEY, CONTACT

AJ8576'SOUTH FLORIDA WATER MANAGEMENT DISTRICT, WEST PALM BEACH, FL. AT PHONE

AJ8576'NUMBER (407) 686-8800.

AJ8576'

AJ8576

AJ8576

## STATION RECOVERY (2008)

AJ8576

AJ8576'RECOVERY NOTE BY G.C.Y., INCORPORATED 2008 (MEL)

AJ8576'RECOVERED IN GOOD CONDITION.

\*\*\* retrieval complete.

Elapsed Time = 00:00:02



KROME

ASSUMED  
ELEV.  
15.00

REL ELEV. 11.15  
2/15/11 LEAN

11.93

REL ELEV.  
11.15



74

Benchmark

75

18



74

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873821

MEMO KROME

