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#### SURVEYOR'S REPORT

Specific Purpose Survey of the United States Geological Survey Well **PB 1639** in Palm Beach County, Florida

Prepared for:

#### South Florida Water Management District

3301 Gun Club Road West Palm Beach, Florida 33406

Prepared by: **Peter Andersen, PSM, Vice President** Florida Professional Surveyor and Mapper License Number 5199 State of Florida

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## **PURPOSE**



The Purpose of this survey is to set an Elevation Referenced Mark (Benchmark) using the guidelines for a National Geodetic Survey (NGS), Class "C" concrete monument and to establish a North American Vertical Datum of 1988 (NAVD 88) on said Benchmark and on an additional Reference Point with a Brass Plate, both at United States Geological Survey Well **"PB 1639"**.

### LOCATION OF PROJECT

The United States Geological Survey Well **"PB 1639"** is located in the Section 28, Township 44 South, Range 43 East, Palm Beach County, Florida.



General Location (Not to Scale)



### **PROJECT VERTICAL DATUM**

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

To convert the NAVD 88 elevation to the National Geodetic Vertical Datum (NGVD) of 1929 at **Station PB 1639 add 1.535.** These values are based on Corpscon 6.0.1, a U.S. Army Corps of Engineers, Engineering Research and Development Center Windows based program to convert coordinates and elevations between datums using the updated vertcon05.txt and the vertcone.05 files supplied by the U.S Army Corps of Engineers. South Atlantic Division, Jacksonville, Florida.

### PROJECT HORIZONTAL DATUM

The project horizontal datum is the State Plane Coordinate System, Florida East Zone, North American Datum 83, adjustment of 2011.

### **LEVELING METHODS**

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

The allowable error on this project meets or exceeds closures as required by SFWMD (.02 √ miles) per executed SOW for 4600003703 WO07. National Geodetic Survey (NGS) monument "K 402" (NGSPID AD8035) is located approximately 25 feet from USDA Well PB 1639 and will be used for site benchmark.

### **GPS METHODS**

Latitude and longitude for the New Benchmark "K 402" were established by observing a 4.5 hour Static Sessions on March 25, 2020 using a Trimble 5700 dual frequency receiver S/N 0220381397. The data from these sessions was sent to the NGS "OPUS" site for post processing on May 3, 2020 and the reports were received from the "OPUS" site the same day.



### Surveyors' Notes:

1. All measurements herein are in United States Survey feet and decimal thereof, unless otherwise specified.

2. Underground utilities were not located as part of this survey.

3. This survey report or copies thereof are not valid without the original signature and seal of a Florida licensed Surveyor and Mapper.

4. Additions or deletions to this survey report by other than the signing party (or parties) is prohibited without written consent of the signing party (or parties).

5. To convert from NAVD 88 to NGVD 29 add 1.519 feet. This value is based on Corpscon 6.0.1 a U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.

6. Date of last field work: March 25, 2020, GCY job No. 18-1020-07.

7. SFWMD Data records (on file at the District's headquarters):

A. Electronic Data files:

Miscellaneous picture files

Digital level run

File names: XXXXXX.DAT

B. Conventional reporting

Field Book: 1863 pages 24-26

### SURVEYOR'S CERTIFICATION

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

### March 25, 2020

Last date of Survey



Peter Andersen, PSM, Vice President Florida Professional Surveyor and Mapper License Number 5199 State of Florida GCY, Inc. LB No 4108

#### NOTE:

This is an electronically signed and sealed document pursuant to Chapter 5J-17.062, Florida Administrative Code. The printed survey map or report or copies thereof are not valid without the original signature and seal of a Florida licensed surveyor or mapper.





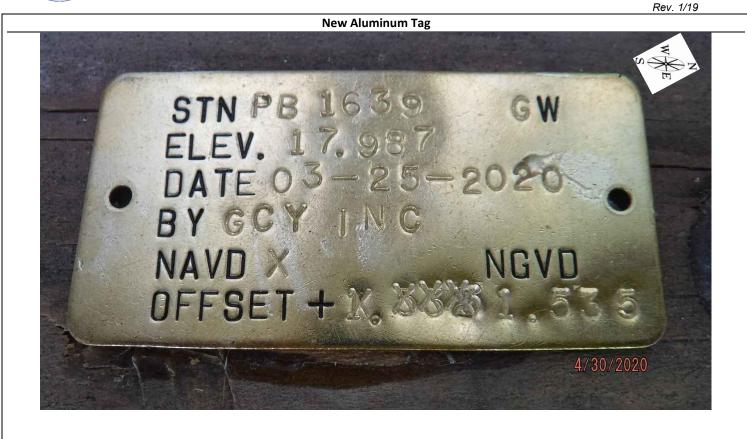
PB 1639       263         Party Chief:       Field         LAPOLLA       GCY         Site Benchmark:       Ben         PB 1639       15.6         Well Reference Elevation (NAVD88): 17.987       DTW         Section 28       Well         Well Latitude:       Wel         26° 36' 57.0243" N       80         State Plane Coordinates:       North         Notes: NAVD88 – North American Verticat       Engineering Research and Development Cerebetween datum's using vertcon05.txt         Well Site       Latitude: 26° 36' 57.	V: <b>10.95</b> 25/ 2020 at 9:48 AM) GEOGRAPH Township <b>44 S</b> Il Longitude: <b>9° 03' 33.7305" W</b> thing (Y) = 830660.893 al Datum of 1988; <b>NGVD29</b> - National Geo nter Topographic Engineering Center Alex	Corpscon 6 + 1.535 Ground Elevation 16.0 HIC DATA Location Source: RTK GPS Easting (X) = 9634 Dedetic Vertical Datum of exandria, Virginia Windo rmy Corps of Engineers URES	(NAVD88): 96.608 1929; <b>Corpscon 6.0</b> . ws-based program to	Report Prepared by: ANDERSEN actor ( <i>NAVD88 to NGVD29</i> ) Pad Elevation ( <i>NAVD88</i> ): <b>N/A</b> Range <b>43</b> E
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98 Latitude: 26° 36' 57.	Aerial of Over	erall Well Site		
WORTHIRN'S				

Not to scale (GoogleEarth product)











Rev. 1/19

USGS RMs - NONE







Rev. 1/19

Source Benchmarks

NO PHOTOS AVAILABLE



Rev. 1/19

"K 402" Benchmark Datasheet (1 OF 3) 5/3/2020 DATASHEETS The NGS Data Sheet See file dsdata.pdf for more information about the datasheet. PROGRAM = datasheet95, VERSION = 8.12.5.7 Starting Datasheet Retrieval... Datasneer net associational Geodetic Survey, Retrieval Date = rmr -1 Retrieval Date = MAY 3, 2020 \*\*\*\*\*\*\*\*\*\*\* AD8035 DESIGNATION - K 402 - AD8035 AD8035 PID STATE/COUNTY- FL/PALM BEACH AD8035 AD8035 COUNTRY - US - LAKE WORTH (2018) AD8035 USGS QUAD AD8035 AD8035 \*CURRENT SURVEY CONTROL AD8035 AD8035\* NAD 83(1986) POSITION- 26 36 56. (N) 080 03 33. SCALED (W) AD8035\* NAVD 88 ORTHO HEIGHT -4.780 (meters) 15.68 (feet) ADJUSTED AD8035 GEOID HEIGHT GEOID18 AD8035 -26.283 (meters) AD8035 DYNAMIC HEIGHT -4.773 (meters) 15.66 (feet) COMP AD8035 MODELED GRAVITY -979,112.3 NAVD 88 (mgal) AD8035 AD8035 VERT ORDER - FIRST CLASS II AD8035 AD8035. The horizontal coordinates were scaled from a map and have AD8035.an estimated accuracy of +/- 6 seconds. AD8035. AD8035. The orthometric height was determined by differential leveling and AD8035.adjusted by the NATIONAL GEODETIC SURVEY AD8035.in June 2002. AD8035 AD8035.Significant digits in the geoid height do not necessarily reflect accuracy. AD8035.GEOID18 height accuracy estimate available here. AD8035 AD8035.Click photographs - Photos may exist for this station. AD8035 AD8035.The dynamic height is computed by dividing the NAVD 88 AD8035.geopotential number by the normal gravity value computed on the AD8035.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45 AD8035.degrees latitude (g = 980.6199 gals.). AD8035 AD8035. The modeled gravity was interpolated from observed gravity values. AD8035 AD8035: North East Units Estimated Accuracy MT (+/- 180 meters Scaled) AD8035;SPC FL E 253,160. 293,700. AD8035 AD8035\_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK936442(NAD 83) AD8035 AD8035 SUPERSEDED SURVEY CONTROL AD8035 AD8035 NAVD 88 (05/20/94) 4.785 15.70 (f) SUPERSEDED 1 2 (m) AD8035 NGVD 29 (09/01/92) 5.248 (m) 17.22 (f) ADJUSTED 1 2 AD8035 AD8035.Superseded values are not recommended for survey control. AD8035 AD8035.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums. AD8035.See file dsdata.pdf to determine how the superseded data were derived. AD8035 AD8035 MARKER: F = FLANGE-ENCASED ROD https://www.ngs.noaa.gov/cgi-bin/ds\_mark.prl?PidBox=AD8035 1/3



#### "K 402" Benchmark Datasheet (2 OF 3) 5/3/2020 DATASHEETS AD8035\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+) AD8035 STAMPING: K 402 1991 AD8035\_MARK LOGO: NGS AD8035\_PROJECTION: FLUSH AD8035 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET AD8035\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL AD8035\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR AD8035+SATELLITE: SATELLITE OBSERVATIONS - April 21, 2006 AD8035\_ROD/PIPE-DEPTH: 13.2 meters AD8035 AD8035 HISTORY Condition - Date Report By AD8035 HISTORY - 1991 MONUMENTED NGS - 20001206 GOOD USPSQD AD8035 HISTORY - 20011221 GOOD USPSOD AD8035 HISTORY AD8035 HISTORY - 20020222 GOOD FLDEP - 20040127 GOOD USPSQD AD8035 HISTORY - 20041117 GOOD AD8035 HISTORY FIDEP AD8035 HISTORY - 20050127 GOOD USPSQD AD8035 HISTORY - 20060421 GOOD USPSQD AD8035 AD8035 STATION DESCRIPTION AD8035 AD8035'DESCRIBED BY NATIONAL GEODETIC SURVEY 1991 AD8035'IN LAKE WORTH, AT THE INTERSECTION OF THE FLORIDA EAST COAST RAILROAD AD8035'AND LAKE AVENUE, 20.5 M (67.3 FT) SOUTH OF AND LEVEL WITH THE AVENUE AD8035'CENTER, 9.1 M (29.9 FT) EAST OF THE NEAR RAIL, 6.9 M (22.6 FT) WEST AD8035'OF THE CENTER OF RAILROAD AVENUE, AND 0.3 M (1.0 FT) SOUTH OF A AD8035'WITNESS POST. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH AD8035'LOGO CAP. AD8035 AD8035 STATION RECOVERY (2000) AD8035 AD8035'RECOVERY NOTE BY US POWER SQUADRON 2000 (AAS) AD8035'RECOVERED IN GOOD CONDITION. AD8035 AD8035 STATION RECOVERY (2001) AD8035 AD8035'RECOVERY NOTE BY US POWER SQUADRON 2001 (AAS) AD8035'RECOVERED IN GOOD CONDITION. AD8035 AD8035 STATION RECOVERY (2002) AD8035 AD8035'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM) AD8035'RECOVERED AS DESCRIBED. AD8035 AD8035 STATION RECOVERY (2004) AD8035 AD8035'RECOVERY NOTE BY US POWER SQUADRON 2004 (AAS) AD8035'RECOVERED IN GOOD CONDITION. AD8035 AD8035 STATION RECOVERY (2004) AD8035 AD8035'RECOVERY NOTE BY FL DEPT OF ENV PRO 2004 (JLM) AD8035'RECOVERED IN GOOD CONDITION. AD8035 AD8035'NOTE A MAGNET WAS PLACED INSIDE OF THE NATIONAL GEODETIC SURVEY LOGO AD8035'CAP. AD8035 AD8035 STATION RECOVERY (2005) AD8035 AD8035'RECOVERY NOTE BY US POWER SQUADRON 2005 (AAS) AD8035'RECOVERED IN GOOD CONDITION. AD8035 AD8035 STATION RECOVERY (2006) AD8035 https://www.ngs.noaa.gov/cgi-bin/ds\_mark.prl?PidBox=AD8035 23





Rev. 1/19 // K402" Benchmark Datasheet (3 OF 3) SXXXXX DATASHEETS AD80935'RECOVERY IN GOOD CONDITION. \*\*\* retrieval complete. Elapsed Time = 00:00:01



Rev. 1/19

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Stand - Uses       1863 27         DENCE RAN THE NEW BAN PD (DD) (Allense)       3:10 - 01 - 01       3:10, 10 - 10 - 10         PEGE TEST !       Image: 10 - 10       MilleRite PE         Com, Eak, 90, 1.14"       Com, Eak, 90, 21 - 10       MilleRite PE         DECT =       0.4"       Rescue - 4.5%       Miller         DECT =       0.4"       Rescue - 4.5%       Distribution       Distribution         Stand Toron Dest       EUN       Autor       Distribution       Distribution         Stand Toron Dest       MilleRite       Distribution       Distribution       Distribution         Stand Stand Or Ditation       US       Distribution       Distribution       Distribution         Image: Stand Or Ditation       US       Distribution       Distribution       Distribution         Image: Stand Or Ditation       US       Distribution       Distribution       Distribution         Image: Stand Or Ditation       US       Distribution       Distribut	(			STE AVE S. Loke Mg	* 5. W 57.	r.	
PEGE TEST :       Level Data-10       Miller Rile       PEGE         COUL, EAK, 910 - 1.1.4"       Coul, PESS, 910 - 1.1.4" <td< th=""><th>54</th><th>WARD - C</th><th>1565 P</th><th>13 WELL</th><th>5</th><th></th><th>18-1020-07-02 1863 27</th></td<>	54	WARD - C	1565 P	13 WELL	5		18-1020-07-02 1863 27
Low, Ear, also:       1.4"       Low, Ear, Now:       22"       Jas:       Mell PD (715)       D. Golward T         DECT =       0.4'       Retrailer 4.54'       Lanes RN (715)       D. Golward T         STA       Toran Datest       ELEN       Dut       DESC       DESC         P 233       0       14.977'       DESC       DESC         R 233       0       14.977'       DESC       DESC         Ib       16.80.67'       14.871'       DESC       DESC         Ib       16.871'       14.871'       DESC       DESC         Ib       16.871'       14.871'       DESC       DESC         Ib       16.871'       14.871'       DESC       DESC         Ib       16.871' <t< th=""><th></th><th></th><th>or MEW</th><th>BM PB 1</th><th>123</th><th>(1880.061)</th><th></th></t<>			or MEW	BM PB 1	123	(1880.061)	
0.04"       Retricter 4.94"       Line: Points       0.00000000000000000000000000000000000			1.9"	tau a		22"	에 잘 못했지 않지 않는 것 중 같이 물 때 아들 것 물 것 같아요. 그는 것 같
Вта         Точки Эхет         EUR         Алт         Дебе           ?233         Ф         (4.977')         Nos Der ?233         PID: NO2758           Ib         1080.07'         14.977'         Nos Der ?233         PID: NO2758           Ib         1080.07'         14.872'         Pide Node. Not I + Stass Masker" TRANGADE           Ib         1080.07'         14.872'         Pide Node. Not I + Stass Masker" TRANGADE           Ib         1080.07'         14.872'         Pide Node. Not I + Stass Masker" TRANGADE           Ib         1080.07'         14.872'         Pide Node. Not I + Stass Masker" TRANGADE           Ib         1080.07'         14.872'         Pide Node. Not I + Stass Masker" TRANGADE           Ib         Ib         Ib         Ib         Ib           Ib <t< td=""><td></td><td>0.4°</td><td></td><td></td><td></td><td></td><td>De Schward S</td></t<>		0.4°					De Schward S
P233       Ø       14.977'       Nos Du P233       P25: A02058         Ib       1680.07'       14.870'       Nos Du P233       P25: A02058         Ib       1680.07'       14.870'       F20 Mass unsure "TRAIERSE         Ib       Ib       10.5' * E art Labor"       Ib         Ib       Ib       10.5' * E art Labor"       Ib         Ib       Ib       Ib       10.5' * E art Labor"       Ib         Ib       Ib       Ib       Ib       Ib       Ib         Ib       Ib       Ib       Ib       Ib       Ib         Ib       Ib       Ib       Ib       Ib       Ib       Ib         Ib       Ib       Ib       Ib       Ib       Ib       Ib       Ib         Ib       Ib       Ib       Ib       Ib       Ib       Ib       Ib       Ib         Ib       Ib			DEST				
WEST STALL OF DILL, U.5' + EAST LADA'         ON THE & OF EAST WAST ST., SAUTH STOR OF         ON THE & OF EAST WAST ST., SAUTH STOR OF         ON THE & OF EAST WAST ST., SAUTH STOR OF         ON THE & OF EAST WAST ST., SAUTH STOR OF         ONEW BAN PRIME         DET NUE         DET NUE <t< td=""><td></td><td>4</td><td>,</td><td>14.9</td><td>י'רך.</td><td></td><td>NOS DM 7233 PID: NO2758 Novo 88= 14977'</td></t<>		4	,	14.9	י'רך.		NOS DM 7233 PID: NO2758 Novo 88= 14977'
New 3 m 20 12     (3 m 1803-270)       New 3 m 20 1723     (3 m 1803-270)       Set 112" (2 m) 2 model 2 model     (3 m 1803-270)       Set 112" (2 m) 2 model 2 model     (3 m 1803-270)       22     (0 92.56"     (6 m 1803-270)       21     (0 92.56"     (6 m 1803-270)       22     (6 m 1803-270)     (7 m 12" (2 m 180)       23     (7 m 1.5. Intel U2)     (8 m 1803-270)       24     (8 m 1803-270)     (7 m 12" (2 m 180)       25     (8 m 1803-270)     (7 m 12" (2 m 180)       20     (8 m 1803-270)     (7 m 12" (2 m 180)       21     (8 m 1803-270)     (9 m 1803-270)       22     (8 m 1803-270)     (9 m 1803-270)       24     (8 m 1803-270)     (9 m 1803-270)       25     (9 m 1803-270)     (9 m 1803-270)       26     (9 m 1803-270)     (9 m 180)       27     (9 m 1803-270)     (9 m 180)       28     (9 m 1803-270)     (9 m 180)       29     (9 m 1803-270)     (9 m 180)       20     (9 m 180)     (9 m 180)       21     (9 m 180)     (9 m 180)       22     (9 m 180)     (9 m 180)       23     (9 m 180)     (9 m 180)       24     (9 m 180)     (9 m 180)       25     (9 m 180)	له	16 80	.67'	<i>\\</i> 4.	871.'		WIES SIDE OF DIM, US'T EAST LATA
Remonstration     Note of the start of the s	1000 A 2400				a construction		(Art. delli mE)
22     UOQ2.56"     16 756"     (Br. 1813-27C) Fris 112" T.R. MELLING COP       21     UOQ2.56"     16 756"     (Br. 1813-27C) Fris 112" T.R. MELLING COP       2     "M.L.S. INK U.J. U838" TS' S. OF THE & OF       3     AVE S ON E. STRE OF PARE HUNG       VLO2     8167.33"     15.76"		4057	10	4	821		SET (12" (IB) IRON FIRE WI ALWAR CAP
· T M. L.S. INUL UN USUB TS'TS. OF THE & OF           3 AVES ON E. STDE OF PIXTE NUM           VLOZ           8167.33'           15.76'           NGS DM KLOZ           ERRE + O.078							
3 AVE 5 ON E. STDE OF PTATE Wing           VLLO2         8167.33'           15.76'         NGS DAV KLO2           ERAT + 0.078	11.	600	12.56'	16	756		(BA 1813-27C) Frig 112" T.R. + YELLES CAP
ERX=+0.078							BANES ON E. STDEOF PTATE HWY
	KLOZ	816	1,33'	15	.76'		



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CHI	OF HUDIDER DE	MCA [NBIEC	20	U U U U U U U U U U U U U U U U U U U
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				- LINE: DAWSON
450	TURBL DEST	ELEU	405	- DEsk
2233	ø	14.977'		NOS DM PL33 LESTED - 14,977
				-
Dawson	1990.56	14.817'		- P.B.C. BAN "DAUSSON"
DEMISSION				Navo 88 EL= 14,85
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				- NOTEV
			-	USTALL ELEVATEONS FROM RUN ON POI
				VINDIM MUST BE THE BOD BM.
			_	
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				DAWSON 14,33



37WMD-USCS (PUB WELLS     18-1020-07-02     1863       4.5hr ORUS GEESTON C NEW     824 R.SUMNY     3.30.7       DM PRITUS     M.LARU       DM PRITUS     824 R.SUMNY       BATE:     TREMOLE 5700       HE I     5.700       END'     15:20       Antonia:     ZERWYR	N P 7
Bate:     TREMOLE 5700       Hr 1     5.20'	> P 7
Βαιε:         Τικεμαίε 5700           μει         5.20'           δτωτι         10:50           Ευσ'         15:20	7
Bate: Tresmole 5700 Us 1 5.26' STERT: 10:50 END: 15:20	
<u>μτ</u> : 5.25' <u>5πωπ</u> : 10:50 Euro' 15:20	-
ЦГ : 5.20° ВТЕКТ : 10:50 Емь: 15:20	
Бтелт: 10:50 Емо: 15:20	
END' 15:20	
A. ATCHINA : ZEPWAR	_
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South Florids Vieter Mongement District Banchmark Detabled!         Programmer       PL328       PL328       PL328       State Plane Zone: PL328       State Plane Zone: PL328         Plane State Plane Zone: PL328       PL328       PL328       PL328       PL328       State Plane Zone: PL328         Plane State Plane Zone: PL328       PL328       PL328       PL328       PL328       PL328         Plane State Plane Zone: PL328       PL328       PL328       PL328       PL328       PL328         Plane Zone: PL328       PL328       PL328       PL328       PL328       PL328       PL328         Notice Cone: PL328       PL328 <td< th=""><th></th><th></th><th>Courth Florida</th><th></th><th>ist Baushmark Datas</th><th>h +</th><th></th><th></th></td<>			Courth Florida		ist Baushmark Datas	h +		
Stempini, 19:190, 180, 1900     Field Box Mare, 19:190, 1900     Field Box Mare, 19:190, 1900     Field Box Mare, 19:190, 1900       Stempini, 19:190, 19:10, 10								
Establishe big GG_NKC       Biscowed big U32/20       Biscowed big U32/20         Section 22       Construction 20       Construction 20         Section 22       Construction 20       Construction 20         Note Construction 20       Construction 20       Note Source Big U32/20       Source Source Big U32/20         Note Construction 20       Note Source Big U32/20       Source Source Big U32/20       Note Source Big U32/20         Note Source Big U32/20       Note Source Big U32/20       Source Source Big U32/20       Source Source Big U32/20         Note Source Big U32/20/20       Note Source Big U32/20/20       Source Source Big U32/20/20       Source Big U32/20/20         Note Source Big U32/20/20       Note Source Big U32/20/20       Source Big U32/20/20       Source Big U32/20/20         Note Source Big U32/20/20       Source Big U32/20/20       Source Big U32/20/20       Source Big U3/20/20         Note Source Big U32/20/20       Source Big U3/20/20       Source Big U3/20/20       Source Big U3/20/20         Note Source Big U3/20/20/20       Source Big U3/20/20       Source Big U3/20/20       Source Big U3/20/20         Note Source Big U3/20/20/20       Source Big U3/20/20       Source Dig U3/20/20       Source Dig U3/20/20         Note Source Big U3/20/20/20       Source Big U3/20/20       Source Dig U3/20/20       Source Dig U3/20/20 <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td>State Plane Zone:</td> <td>FL East</td>							State Plane Zone:	FL East
Surveyori, MORERAN     Exabilihier bite: 0/15/20     Status: New       Section: 28     Township     44,90UTH     Ouesdrawle Surveyori MORMANOW     Name:     44,64X       Not83: Adj. Year:     2011     Vorreiral Datum MAC 1980     Not5 Status: Mol 1990; A 400255     Not5 Status: Mol 1990; A 400255       Not83: Adj. Year:     2011     Not5 Status: Mol 1990; A 400255     Not5 Status: Mol 1990; A 400255       Not83: Adj. Year:     2011     Not5 Status: Mol 1990; A 400255     Not5 Status: Mol 1990; A 400255       Not83: Adj. Year:     2011     Not5 Status: Mol 1990; A 400255     Not5 Status: Mol 1990; A 400255       Not83: Adj. Year:     2011     Not5 Status: Mol 1990; A 400255     Not5 Status: Mol 1990; A 400255       Not703: Dottal: Mol 1990; BATCH Status: Add Not 1990; A 400255     Not5 Status: Mol 1990; A 400255     Not5 Status: Mol 1990; A 400255       Not703: Dottal: Mol 1990; BATCH Status: Add Notatus: Add Nota							-	
GEOGRAPHIC COSTION MODELTON           GEOGRAPHIC COSTION MODELTON           Convity PMM MEACH           Convity PMM MEACH           NAVER 2011           NOVER 2012							-	
Section: 28         Township         44 SUUTh         Range         44 EAT           NOR85 Adj. Ver;         2011         Outstrage:         44 SUUTh         Guadange:         44 SUUTh         Guadange:         44 SUUTh         Guadange:         45 Suura         No Source BMD, Super, Supe							-	
Control     MAIN BEACH     Quadrange:     Lift WORTH     Quadrange:     Motion State     Motion State </td <th>Section</th> <td>• 28</td> <td>Townshin:</td> <td></td> <td></td> <td>Range</td> <td>. 43</td> <td>FAST</td>	Section	• 28	Townshin:			Range	. 43	FAST
NADB3 day, Yeam     201, NAVOB8 Crass, II.     Vertical Paterin, MAD1988     Mol 20182, NAVOB8 Crass, II.     Not SNAVD8 Elev (htt); 15.552       NAVOB8 Crass, II.     Not Not SNAVD8 Elev (htt); 15.552     Not Not SNAVD8 Elev (htt); 15.552       CORPECTOR 6.1 CONVESION FACTOR (NAVO88 TO NOV28) (htt: a two can different parent facata distance in the "statistic distatistic distance in the "s								
NAVUB8 (cars: III     NAVUB8 (cars: III)     Other Floration [Precision]     MsVUB8 (cars: III)     Other Floration [Precision]     MsVUB8 (cars: III)     MsVUB8 (cars: III)     MsVUB8 (cars: III)     MsVUB8 (cars: IIII)     MsVUB8 (cars: IIIII)     MsVUB8 (cars: IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								
NAVUSB Onder ST MAUVERSON 64.7.CONVERSION 64.								
Description (Note::::::::::::::::::::::::::::::::::::								
accuse based in the U.S. Michael hydroxe submitted water, accuse the USE of t								
Vertical Jatum Officit: https://wites.justical.points.com/second/secon	CORPSCON 6.0.1 CONVERSIO	ON FACTOR (NAVD88 TO NGV	D29): (A U.S. Army Corps of Engineers	Engineering Research and Development Center Top	ographic Engineering Center Alexandria, Vir	ginia Windows-based program to o	convert coordinates and elevations betwee	en datum's using vertcon05.txt and
Northing (1) feet:       26       36       35.7475       Jone of Lattude (2005)       200       33.75795         Littlude:       20       MM       55°       Longitude (2003)       200       MM       35°         Littlude:       26.61577632       Longitude (2004)       200       MM       55°         Littlude:       26.61577632       Longitude (2004)       200       MM       55°         Littlude:       26.61577632       Longitude (2004)       200       MM       55°         How to flead::       In LAKE WORTH, AT THE INTERSECTION OF THE FLORIDA CAST COST RAIROAD       AND LAKE WORTH, AT THE INTERSECTION OF THE FLORIDA CAST COST RAIROAD         Move to flead::       IN LAKE WORTH, AT THE INTERSECTION OF THE FLORIDA CAST COST RAIROAD       AND LAKE WORTH, AT THE INTERSECTION OF THE FLORIDA CAST COST RAIROAD         Move to flead::       IN LAKE WORTH, AT THE INTERSECTION OF THE FLORIDA CAST COST RAIROAD       Interview of Lattude (2004)         Interview of Longitude (2004)       AND LAKE WORTH, AT THE INTERSECTION OF THE FLORIDA CAST COST RAIROAD       Interview of Lattude (2004)         Dories for the starts       OTHE CONTRACT CAST AND CAST ACCESS TO THE DATUM FOWIT'S THROUGH A S-INCH       Interview of Lattude (2004)         Differs fource Benchmarks:       Differs fource Benchmarks:       Differs fource Control Start         Differs fource Benchmark				NGS Elevation or ngvd29.txt file:		OPUS Ortho Height:	16.512	
Latitude (bound bayes):         00°         MM°         S3°         0.09°         MM°         S3°           Latitude (bound bayes):         26.61577632         Inngitude (bound bayes):         0.0593799         MM°         S3°           How to Reach:         M LAKE WORTH, AT THE INTERSECTION OF THE FLORIDALEXE TOATS RAILROAD AND Lake XOFTILD of THE CHAR NAIL, 6.5 M (22.6 TT) WEST OF THE CHAR NAIL, 6.5 M (23.6 TT) SOUTH OF AN KEYNEL CONTER 0.5 M (20.6 TT) WEST OF THE HAR NAIL, 6.5 M (22.6 TT) WEST OF THE CHART OF RAILCOAD WALL, AND S. M (21.6 TT) WEST OF THE CHART OF RAILCOAD WALL, AND S. M (21.7 SOUTH OF A WITNESS ROST. NOT-ACCESS TO THE DATUM FOWTH 5 THROUGH A 5-INCH LOOD CAP.           Description/Notes:	Northing (Y) (feet)	830637.692	Easting (X) (feet):	963493.375	Source of	Latitude & Longitude	OPUS SOLUTION	-
Latitude (bound squeet:	Latitude:				Longitude			
RECOVERY DATA         How to Reach:       AND LAKE AVENUE, 20.5 M (6/3 FT) SOUTH OF AND EVEL WITH HE ARTNUE CENTER, 9.1 M (29.9 T) EAST OF THE NARA RAIL, 6.9 M (22.6 FT) WEST OF THE CENTRE OF RAILROAD ALTON, 6.9 M (22.6 FT) WEST OF THE CENTRE OF RAILROAD ALTON, 6.9 M (22.6 FT) WEST OF THE CENTRE OF RAILROAD ALTON, 6.9 M (22.6 FT) WEST OF THE CENTRE OF RAILROAD ALTON, 6.9 M (22.6 FT) WEST OF THE CENTRE OF RAILROAD ALTON, 6.9 M (22.6 FT) WEST OF THE CENTRE OF RAILROAD ALTON, 6.9 M (20.6 FT) SOUTH OF A WITNESS POST. NOTE-ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.         Description/Notes:       Description/Notes:         Description/Notes:       DESCRIPTION ALTON OF AND EVEL WITH THE AND USED A 5-INCH LOGO CAP.         Notable Landmark:       DESCRIPTION ALTON OF A CENTRE OF ALTON OF A WITNESS POST. NOTE-ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.         Notable Landmark:       DESCRIPTION/Notes:       DESCRIPTION ALTON OF A WITNESS POST. DESCRIPTION ALTON OF A WITNE	Latitudo (a		MM'	SS"	Longitudo (n		MM'	SS"
How to Reach: How to Reach: Not Lake Workh, AT THE INTERSECTION OF THE FLORIDA EAST COAST RALIBOAD AND LAKE AVENUE, 25: SM (57: 3FT) SOUTH OF AND LEVEL WITH HE AVENUE CENTERS 9, 51: MOST - ACCESS TO THE NARE NALL, 6: 94 (22: FT) WEST OF THE CENTER OF RALIBOAD AVENUE, AND OS 10: DF1 SOUTH OF A WITNESS POST. NOTACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LIGGO CAP. Notable Landmarks: Description/Notes: Description/Notes: Description/Notes: Description/Notes: Description/Notes: Description/Notes: DESCRIPTION: Notable Landmarks: DESCRIPTION: DESCRIPTIO	Latitude (Decimal Degrees):	26.61577632			Longitude (Decimal Degrees):	-80.05937999	-	
How to Reach: How to Reach: Not Lake Workh, AT THE INTERSECTION OF THE FLORIDA EAST COAST RALIBOAD AND LAKE AVENUE, 25: SM (57: 3FT) SOUTH OF AND LEVEL WITH HE AVENUE CENTERS 9, 51: MOST - ACCESS TO THE NARE NALL, 6: 94 (22: FT) WEST OF THE CENTER OF RALIBOAD AVENUE, AND OS 10: DF1 SOUTH OF A WITNESS POST. NOTACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LIGGO CAP. Notable Landmarks: Description/Notes: Description/Notes: Description/Notes: Description/Notes: Description/Notes: Description/Notes: DESCRIPTION: Notable Landmarks: DESCRIPTION: DESCRIPTIO				RECOVERY DATA				
AND LARE AVENUE, 20.5 M (67,3 FT) SOUTH OF AND LEVEL WITH THE AVENUE CENTRE, 20.5 M (67,3 FT) SOUTH OF AND LEVEL WITH THE AVENUE OF THE CENTER OF PAULEOAD AVENUE, AND 0.3 M (1.0 FT) SOUTH OF A WITHESPOST. NOTE-ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP. Description/Notes: Notable Landmarks: Other Source Benchmarks: PICTURES Arial View of Overall Site IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	How to Reach:	IN LAKE WORTH, AT THE IN	TERSECTION OF THE FLOR					
Description/Notes: Descri								
Description/Notes:       Description/Notes:         Notable Landmarks:         Other Source Renchmarks:         Image: Description of the source rench		CENTER, 9.1 M (29.9 FT) EA	ST OF THE NEAR RAIL, 6.9	M (22.6 FT) WEST				
LOGO CAP. Description/Notes: Des								
Description/Notes: Notable Landmarks: Other Source Benchmarks:			ESS TO THE DATUM POINT	T IS THROUGH A 5-INCH				
Notable Landmarks: Other Source Benchmarks: PCTURES Aerial View of Overall Site International Control of C		LOGO CAP.						
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Aerial View of Overall Site	Other Source Benchmarks:							
					<b>C</b> 1.			
Site Sketch				PICTURES				

Page 1 of 1

FILE: 13970850.t01 OP1588525880467

#### NGS OPUS SOLUTION REPORT

All computed coordinate accuracies are listed as peak-to-peak values. For additional information: <u>https://www.ngs.noaa.gov/OPUS/about.jsp#accuracy</u>

USER: petea@gcyinc.com	DATE: May 03, 2020
RINEX FILE: 13970850.200	TIME: 17:15:15 UTC

 SOFTWARE: page5 1801.18 master96.pl 160321
 START: 2020/03/25 14:08:00

 EPHEMERIS: igs20983.eph [precise]
 STOP: 2020/03/25 18:42:00

 NAV FILE: brdc0850.20n
 OBS USED: 10845 / 11713 : 93%

 ANT NAME: TRM39105.00
 NONE
 # FIXED AMB: 60 / 65 : 92%

 ARP HEIGHT: 1.585
 OVERALL RMS: 0.017(m)

#### REF FRAME: NAD\_83(2011)(EPOCH:2010.0000)

ITRF2014 (EPOCH:2020.2314)

X:	985023.827(m) 0.004(m)	985022.999(m) 0.004(m)
Y:	-5620402.970(m) 0.003(m)	-5620401.381(m) 0.003(m)
Z:	2840209.314(m) 0.010(m)	2840209.151(m) 0.010(m)

LAT: 263	6 56.79475	0.011(m)	26 36 56.81488	0.011(m)
E LON: 279	56 26.23204	0.004(m)	279 56 26.21249	0.004(m)
W LON: 80	3 33.76796	0.004(m)	80 3 33.78751	0.004(m)
EL HGT:	-21.548(m)	0.002(m)	-23.148(m)	0.002(m)
ORTHO HGT:	4.735(r	n) 0.050(m)	[NAVD88 (Compu	ted using GEOID18)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 17) SPC (0901 FL E) Northing (Y) [meters] 2944224.473 253178.875 Easting (X) [meters] 593641.407 293673.368 Convergence [degrees] 0.42143333 0.42143333 Point Scale 0.99970826 1.00004947 **Combined Factor** 0.99971164 1.00005286

US NATIONAL GRID DESIGNATOR: 17RNK9364144224(NAD 83)

#### BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDI	E DISTANCE(1	n)
DF922	5 ZMA1 MIAMI WAAS 1 0	CORS ARP	N254928.585 W	/0801909.066	91417.7
DP685	9 FLF1 FL FOUNDATION	1 CORS ARP	N253655.240 V	W0802309.913	115552.0
DE913	8 OKCB OKEECHOBEE C	CORS ARP	N271557.715 V	V0805119.181	106951.1

NEAREST NGS PUBLISHED CONTROL POINT AD8035 K 402 N263656.000 W0800333.000 32.4

## **Palm City**

#### 28 April 2020

#### INPUT

Geographic, flhpgn - Florida HPGN Vertical - NAVD88, U.S. Feet

#### OUTPUT

State Plane, filhpgn - Florida HPGN 0901 - Florida East, U.S. Feet Vertical - NGVD29 (Custom), U.S. Feet

#### PB 1639

Latitude: 26 36 56.8 Longitude: 080 03 33.8 Elevation/Z: 0 1/1 Northing/Y: 830638.200 Easting/X: 963490.462 Elevation/Z: 1.535 Convergence: 0 25 17.14625 Scale Factor: 1.000049467 Combined Factor: 1.000053515