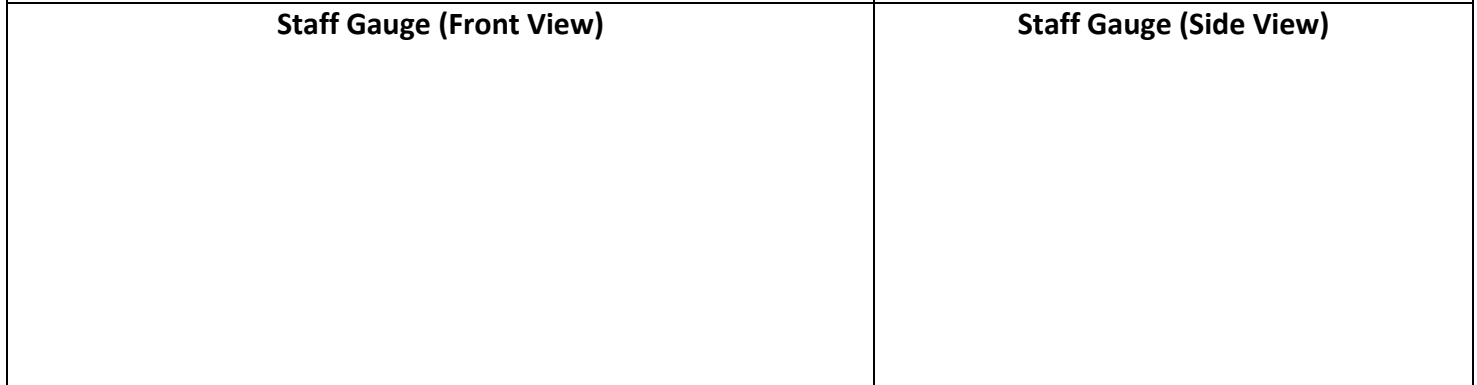
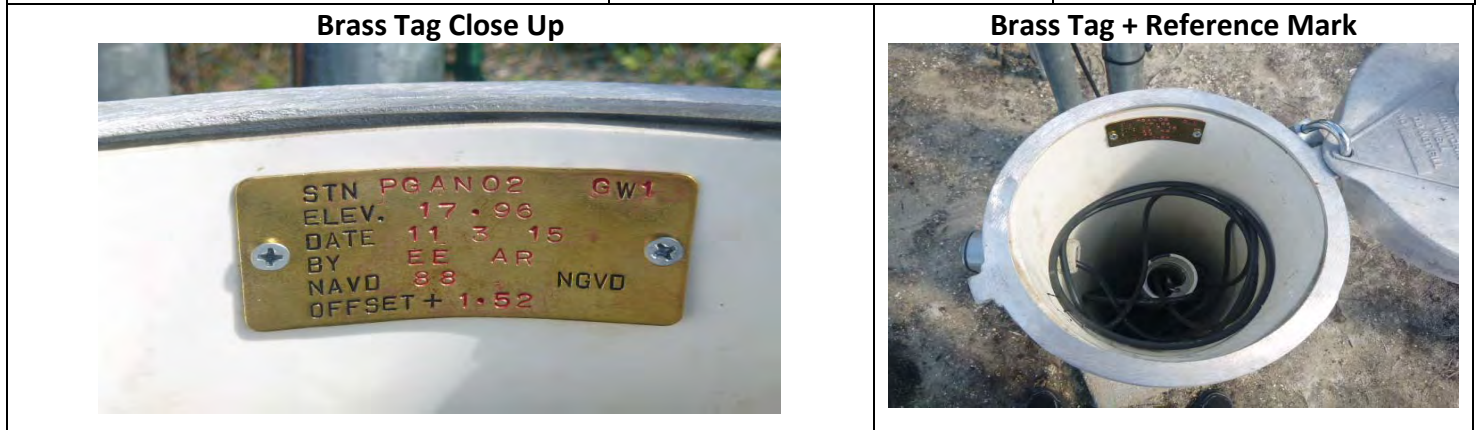
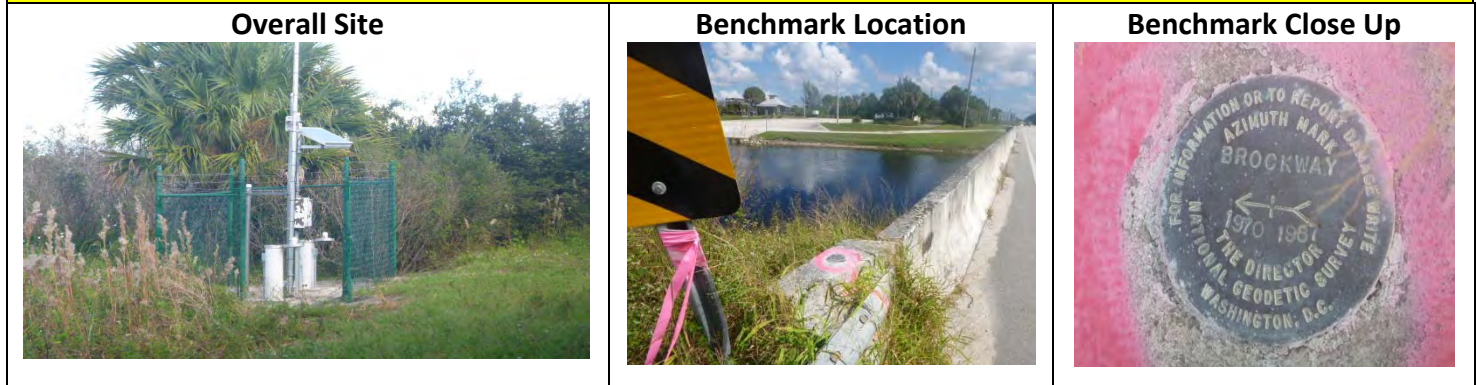


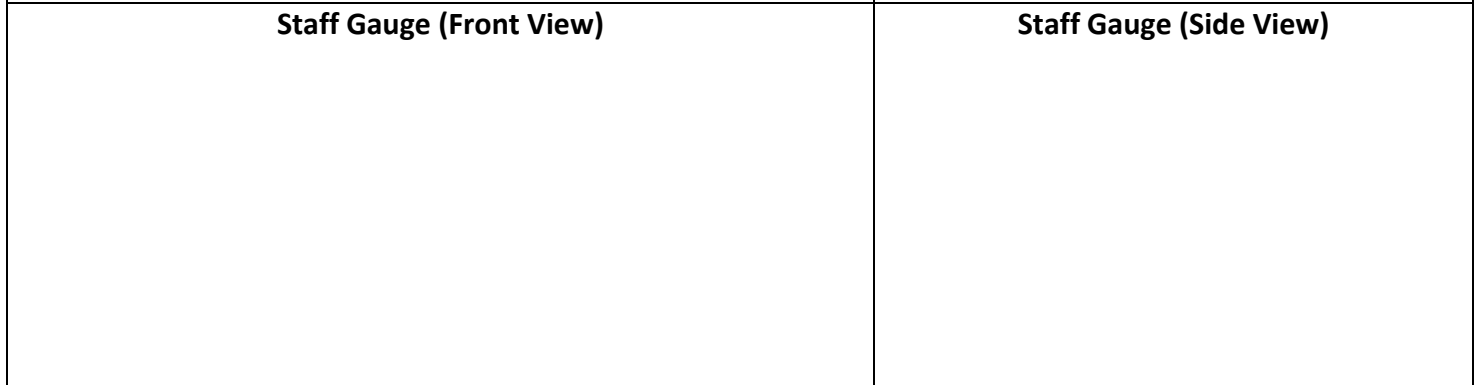
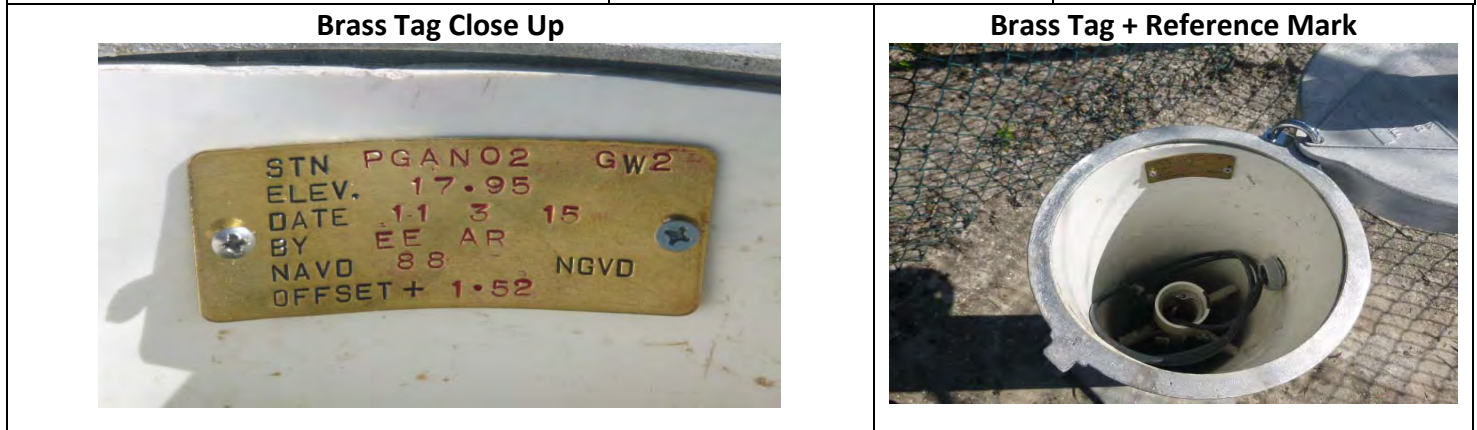
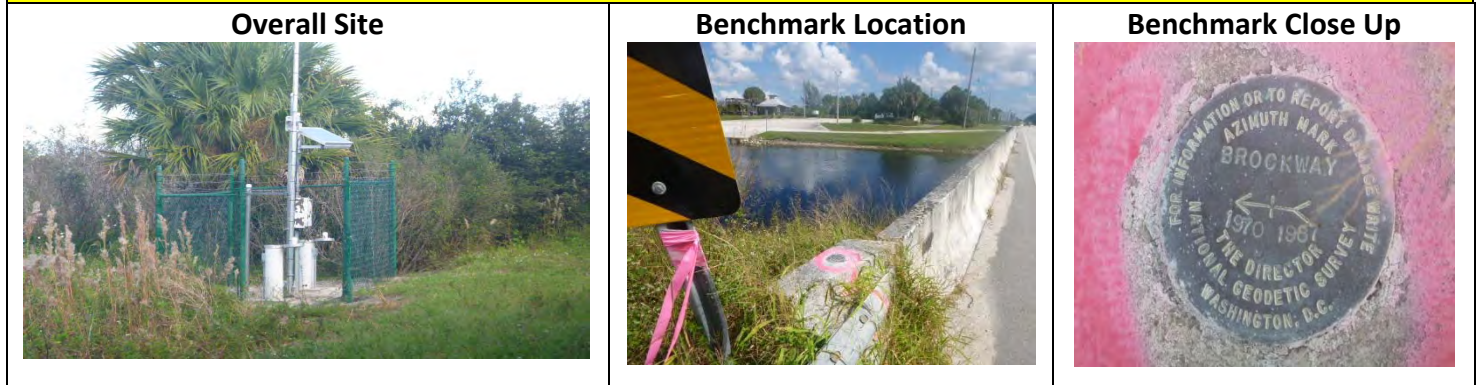
Site Name PGAW02 GW1		Date of Field Work 11/03/2015
Party Chief Ebanks/Rodriguez	Field Book Name/Number SCADA FB #12	Page Number(s) Pg. 6
Site Benchmark Name BROCKWAY AZ MK	Benchmark Elevation (NAVD88) 23.134ft	Datum Offset to NGVD29 +1.52'
Reference Elevation (NAVD 88) 17.96ft		Existing Tag Elevation (Datum) N/A
Latitude 26° 50' 26.8"		Longitude 80° 09' 58.8"
Notes: Datum Upgrade to NAVD 88 from NGVD 29		

Photographs



Site Name PGAW02 GW2		Date of Field Work 11/03/2015
Party Chief Ebanks/Rodriguez	Field Book Name/Number SCADA FB #12	Page Number(s) Pg. 6
Site Benchmark Name BROCKWAY AZ MK	Benchmark Elevation (NAVD88) 23.134ft	Datum Offset to NGVD29 +1.52'
Reference Elevation (NAVD 88) 17.95ft		Existing Tag Elevation (Datum) N/A
Latitude 26° 50' 26.8"		Longitude 80° 09' 58.8"
Notes: Datum Upgrade to NAVD 88 from NGVD 29		

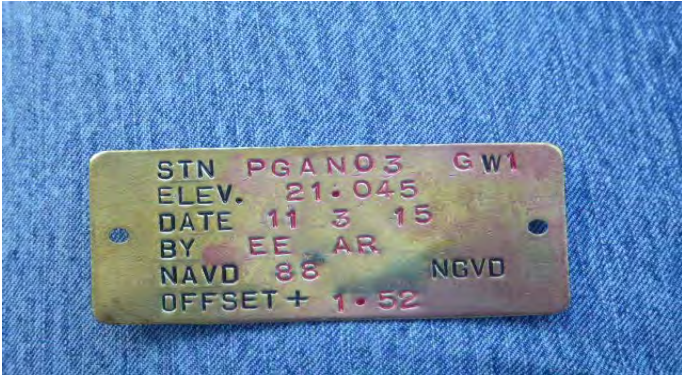

Photographs





Site Name PGAW03 GW1		Date of Field Work 11/03/2015
Party Chief Ebanks/Rodriguez	Field Book Name/Number SCADA FB #12	Page Number(s) Pg. 5
Site Benchmark Name BROCKWAY AZ MK	Benchmark Elevation (NAVD88) 23.134ft	Datum Offset to NGVD29 +1.52'
Reference Elevation (NAVD 88) 21.045ft		Existing Tag Elevation (Datum) N/A
Latitude 26° 50' 28"		Longitude 80° 10' 03"
Notes: Datum Upgrade to NAVD 88 from NGVD 29		

Photographs

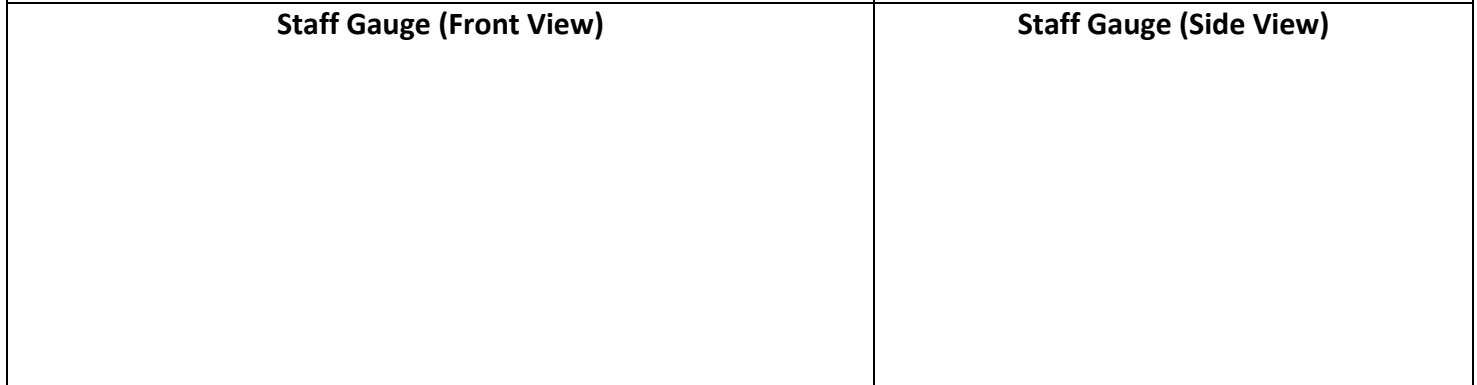
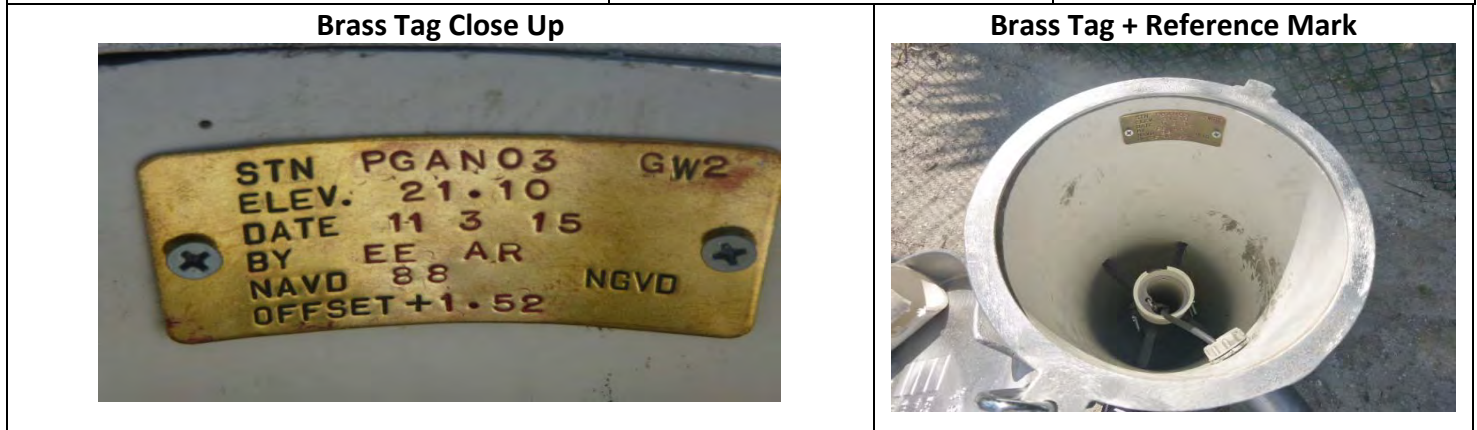
Overall Site	Benchmark Location	Benchmark Close Up
		

Brass Tag Close Up	Brass Tag + Reference Mark
	

Staff Gauge (Front View)	Staff Gauge (Side View)
	

Site Name PGAW03 GW2		Date of Field Work 11/03/2015
Party Chief Ebanks/Rodriguez	Field Book Name/Number SCADA FB #12	Page Number(s) Pg. 5
Site Benchmark Name BROCKWAY AZ MK	Benchmark Elevation (NAVD88) 23.134ft	Datum Offset to NGVD29 +1.52'
Reference Elevation (NAVD 88) 21.10ft		Existing Tag Elevation (Datum) N/A
Latitude 26° 50' 28"		Longitude 80° 10' 03"
Notes: Datum Upgrade to NAVD 88 from NGVD 29		

Photographs



5 NCADA FB#12 11-3-15

hec. 17 TWP 43 Rge 40

Ebanks
Rodriguez

ENTRANSH ELEV. FOR LSMZBN @ L8

HTA	+	H.I.	-	ELEV.	Remarks
BM PBF15	6.39	29.14		22.75 (88)	
TP			5.90	23.24	
	4.65	27.89			
LSMZBN WENHEAD			5.36	22.53	next mark
		<u>8+</u>			
LSMZBN WENHEAD	5.21	27.74			
TP			4.50	23.24	
	5.67	28.91			
BM PBF15			6.16	22.75	

NCADA FB#12 11-3-15 5

hec.

TWP.

Rge

Ebanks
Rodriguez

ENTRANSH Ref. Elev. FOR wells @ PGAN03

HTA	+	H.I.	-	Elev	Remarks
BM Brackway AZ MK.	0.88	24.014		23.134	
PGAN03 Gw1			2.97	21.045	
PGAN03 Gw2			2.915	21.10	
LET SHOT			5.1	18.9	
BM Brackway AZ MK.			0.88	23.134	

hrec. 5 TWP 42 Rge 42

Establish REF. Elev (NAVD 88) @ PGAN02/C-18

hTA	+	H.I.	-	Elev	Remarks
BM Brockway AZ MK.	0.44	23.574		23.134	
PGAN02 GW 1			5.615	17.96	
PGAN02 GW 2			5.625	17.95	
GD Spot			7.9	15.7'	
BM Brockway AZ MK	0.44			23.134	✓
DOT BM NE Corner of Bridge	0.42			23.154	
Brockway AZ MK	0.44			23.134	

hrec. 16 TWP 59 Rge 37

Ebanks
Rodriguez

Verify REF Elev @ 5-197 C-111

hTA	+	H.I.	-	Elev	Remarks
BM 5-197 2014	4.60	8.535		3.935 (88)	
5-197 H/W Well			3.035	5.50	(7.03 NAVD 88)
5-197 H/W W/S.			7.78	0.755	(0.75 Gage Rod)
5-197 T/W Well.			4.56	3.975	(5.50 NAVD 88)
5-197 T/W W/S			8.50	0.035	(0.10 STAFF)

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 = NOVEMBER 20, 2015
DI9208 *****
DI9208 DESIGNATION -   BROCKWAY AZ MK           L26586 Preliminary Difference
DI9208 PID           -   DI9208                 7.51241m (NGVD29) - 7.05141m (NAVD88) = 0.461m
DI9208 STATE/COUNTY-  FL/PALM BEACH            (1.5124641666')
DI9208 COUNTRY       -   US
DI9208 USGS QUAD     -   DELTA (1983)
DI9208
DI9208                      *CURRENT SURVEY CONTROL
DI9208
DI9208* NAD 83(1986) POSITION- 26 50 24.        (N) 080 10 01.        (W) SCALED
DI9208* NAVD 88 ORTHO HEIGHT - 7.058 (meters) 23.16 (feet) ADJUSTED
DI9208
DI9208 GEOID HEIGHT   -          -26.630 (meters)                                GEOID12B
DI9208 DYNAMIC HEIGHT -           7.047 (meters)          23.12 (feet) COMP
DI9208 MODELED GRAVITY -      979,108.8 (mgal)                                NAVD 88
DI9208
DI9208 VERT ORDER     -   FIRST          CLASS II
DI9208
DI9208.The horizontal coordinates were scaled from a topographic map and have
DI9208.an estimated accuracy of +/- 6 seconds.
DI9208.
DI9208.The orthometric height was determined by differential leveling and
DI9208.adjusted by the NATIONAL GEODETIC SURVEY
DI9208.in August 2007.
DI9208
DI9208.Significant digits in the geoid height do not necessarily reflect accuracy.
DI9208.GEOID12B height accuracy estimate available here.
DI9208
DI9208.Photographs are available for this station.
DI9208
DI9208.The dynamic height is computed by dividing the NAVD 88
DI9208.geopotential number by the normal gravity value computed on the
DI9208.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DI9208.degrees latitude (g = 980.6199 gals.).
DI9208
DI9208.The modeled gravity was interpolated from observed gravity values.
DI9208
DI9208;
DI9208;SPC FL E      -      North          East          Units  Estimated Accuracy
DI9208;          -      277,950.        282,800.        MT    (+/- 180 meters Scaled)
DI9208
DI9208                      SUPERSEDED SURVEY CONTROL
DI9208
DI9208.No superseded survey control is available for this station.
DI9208
DI9208_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK827689(NAD 83)
DI9208
DI9208_MARKER: DZ = AZIMUTH MARK DISK
DI9208_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
DI9208_SP_SET: BRIDGE GUARDRAIL
DI9208_STAMPING: BROCKWAY 1970 1987
DI9208_MARK LOGO: NGS
DI9208_MAGNETIC: N = NO MAGNETIC MATERIAL
DI9208_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DI9208_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DI9208+SATELLITE: SATELLITE OBSERVATIONS - November 09, 2005

```

DI9208				
DI9208	HISTORY	- Date	Condition	Report By
DI9208	HISTORY	- 1987	MONUMENTED	NGS
DI9208	HISTORY	- 20040525	GOOD	FLDEP
DI9208	HISTORY	- 20051109	GOOD	NICKMI

DI9208

DI9208

DI9208

STATION DESCRIPTION

DI9208'DESCRIBED BY FL DEPT OF ENV PRO 2004 (JLM)

DI9208'THE MARK IS ABOUT 10.0 MI SOUTHWEST OF JUPITER, 2.2 MI WEST OF PALM

DI9208'BEACH GARDENS, IN SECTION 5, TOWNSHIP 42 SOUTH, RANGE 42 EAST.

DI9208'

DI9208'TO REACH THE MARK FROM THE INTERCHANGE OF THE FLORIDA TURNPIKE

DI9208'UNDERPASS (EXIT 109) AND STATE HIGHWAY 786 (P.G.A. BOULEVARD) ON THE

DI9208'NORTHWEST SIDE OF PALM BEACH GARDENS, GO WEST ON STATE HIGHWAY 786

DI9208'(P.G.A. BOULEVARD) FOR 2.25 MI TO THE WEST END OF BRIDGE NUMBER

DI9208'930356 SPANNING CANAL C-18 AND THE JUNCTION OF CANAL C-18 LEVEE ROAD

DI9208'AND THE MARK ON THE RIGHT, SET FLUSH IN THE TOP OF THE NORTHWEST

DI9208'CORNER OF THE BRIDGE GUARD RAIL ABOUT 2.0 FT ABOVE THE LEVEL OF STATE

DI9208'HIGHWAY 786.

DI9208'

DI9208'LOCATED 16.0 FT NORTH OF THE APPROXIMATE CENTERLINE OF STATE HIGHWAY

DI9208'786 AND 1.2 FT EAST OF THE WEST END OF THE BRIDGE RAIL.

DI9208

DI9208

STATION RECOVERY (2005)

DI9208

DI9208'RECOVERY NOTE BY NICK MILLER INCORPORATED 2005 (ECD)

DI9208'RECOVERED AS DESCRIBED.

*** retrieval complete.

Elapsed Time = 00:00:02

CONTROL STATIONS REPORT

NAME: BROCKWAY AZ MK (RELOCATED 1987)

DATE LAST RECOVERED: 06/18/2007

STAMPED: BROCKWAY 1970/1987

STATUS: EXISTING

TOWNSHIP: 42

RANGE: 42

SECTION: 05

STABILITY: D

FIELD BOOK: 1211BB

FIELD BOOK PAGE: 55

NAVD88 VERTICAL CONSTRAIN:

NGVD 29 FEET: 24.728

NGVD 29 AGENCY: PBCO

NGVD 29 DATE: 12/04/1990

VERTICAL 29 By: Gary L. Beaty

NAVD 88 FEET: 23.191

NAVD 88 AGENCY: PBCO

NAVD 88 DATE: 12/04/1990

VERTICAL 88 By: Gary L. Beaty

VERTICAL CONTROL SURVEY DRAWING NO. S-3-02-1673

VERTICAL DISK: Y

HORIZONTAL ACCURACY: 40

HORIZONTAL AGENCY: PBCO

HORIZONTAL CONSTRAIN:

Y72:

X72:

N90: 911938.0536

E90: 927828.8453

FIELD BOOK HORIZONTAL: 1261KK

FIELD BOOK PAGE HORIZONTAL: 65,66

CONVERGENCE 90:

SCALE FACTOR 90:

POINT NO:

HORIZONTAL CONTROL SURVEY DRAWING NO:

HORIZONTAL 90 BY:

APPROXIMATE LATITUDE: 26 50 24.3

APPROXIMATE LONGITUDE: 80 10 00.9

MONUMENT TYPE: USCG AZ. MK. BRASS DISK

HORIZONTAL DISK: N

GPS ACCURACY:

GPS NO:

GPS HORIZONTAL AGENCY:

DATE CREATED 98:

N98:

SCALE FACTOR 98:

CONVERGENCE 98:

E98:

DATUM:

ADJUSTMENT:

GPS HORIZONTAL 98 BY:

N=No Y=Yes 10=First Order 21=Second Order Class I 22=Second Order Class II 30=Third Order 2=0.02m Local Accuracy
3=0.03m Local Accuracy

It is the responsibility of the user to verify the data by referring to the Certified Survey on file in the Office of the County Engineer.

MEMO

THE STATION IS A USCGS BRASS DISK AZIMUTH MARK, STAMPED "BROCKWAY 1970/1987". THE STATION IS LOCATED IN THE WEST END OF THE NORTH ABUTMENT OF THE CONCRETE BRIDGE OVER THE C-18 CANAL ON PGA BOULEVARD, 2.25 MILES WEST OF THE SUNSHINE STATE PARKWAY OVERPASS.

(NOTE: THIS DISK IS NOT LOCATED IN ITS ORIGINAL POSITION THAT WAS SET BY THE USCGS SURVEY IN 1970. THE DISK WAS RELOCATED BY OTHERS PRESUMABLY IN 1987 INTO THIS NEW BRIDGE ABUTMENT THAT WAS RECONSTRUCTED IN 1987! ON MARCH 25, 1999, A N.A.D. 1983, 1990 STATE PLANE COORDINATE VALUE WAS ESTABLISHED ON THE RELOCATED DISK BY TIEING IT TO THE PALM BEACH COUNTY BRASS DISKS IN CONCRETE FOUND AT THE NORTHEAST AND NORTHWEST CORNERS OF SECTION 8, TOWNSHIP 42 SOUTH, RANGE 42 EAST.)

-*- FIELD ABSTRACT -*-

040602-040710 HGZ L26586 4.0 MM ORDER 1 CLASS 2 PAGE 1
LEVELING ALONG CANAL C-18 FROM THE JUNCTION OF STATE ROAD 710 NORTH
STARTING ELEVATION BASED ON NAVD 88 HEIGHTS.
NOTE COLLIMATION STORED IN ELECTRONIC INSTRUMENT.
NOTE LATITUDE AND LONGITUDE WAS SCALED FROM TOPOGRAPHIC MAP.

FROM	TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	I C
0001 Z 232							1.83200	
0001 Z 232		6021022	F	1.44	-0.16225 *	0.00	-0.16225	1
0002 Y 402				1.44		0.00	1.66975	
0002 Y 402		6021216	F	0.66	1.66007 *	0.30	1.66022	1
0003 B 232		6030736	B	0.66	-1.66037 *			2
		SL 1		2.10		0.30	3.32997	
0003 B 232		6030840	F	0.36	2.47876 *	0.00	2.47876	2
0004 872 2492 C TIDAL		SL 1		2.46		0.30	5.80873	
0002 Y 402		6021300	F	1.65	-0.29044 *	-4.56	-0.29272	1
0006 G 600		6031340	B	1.66	0.29500 *			2
				3.09		-4.56	1.37703	
0006 G 600		6021424	F	1.02	0.63709 *	0.05	0.63712	1
0007 H 600		6031252	B	1.02	-0.63715 *			2
				4.10		-4.51	2.01415	
0007 H 600		6031210	B	1.00	-0.17410 *	-1.19	0.17470	2
0008 J 600		6031530	F	1.00	0.17529 *			2
				5.11		-5.69	2.18885	
0008 J 600		6031000	B	1.38	-2.38259 *	-1.23	2.38320	2
0036 FCE 1674		6040731	F	1.37	2.38382 *			3
				6.48		-6.93	4.57205	
0036 FCE 1674		6040833	F	0.23	1.47756 *	0.12	1.47761	3
0009 JENKINS		6041144	B	0.22	-1.47767 *			3
				6.70		-6.81	6.04966	
0009 JENKINS		6040912	F	0.03	0.12559 *	-0.12	0.12553	3
0010 JENKINS RM 2		6041138	B	0.03	-0.12547 *			3
				6.73		-6.94	6.17519	
0010 JENKINS RM 2		6040918	F	1.39	0.76405 *	-1.96	0.76307	3
0011 24.37		6041020	B	1.38	-0.76209 *			3
				8.11		-8.90	6.93826	
0011 24.37		6050725	F	1.33	0.06706 *	0.93	0.06752	1
0012 K 600		6061510	B	1.35	-0.06799 *			2
				9.44		-7.97	7.00578 ^g	

-*- FIELD ABSTRACT -*-

040602-040710 HGZ L26586 4.0 MM ORDER 1 CLASS 2 PAGE 2
LEVELING ALONG CANAL C-18 FROM THE JUNCTION OF STATE ROAD 710 NORTH

FROM	TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	I C
0012 K 600		6050815	F	1.40	-1.99573 *	-3.04	-1.99725	1
0013 L 600		6061412	B	1.40	1.99877 *			2

L26586. ABS

				10. 84			-11. 01	5. 00853	
0013 L 600		6061303 F		0. 60	0. 13361 *		-2. 40	0. 13241	2
0037 G 92		6061345 B		0. 61	-0. 13122 *				2
		SL 1		11. 44			-13. 41	5. 14094	
0013 L 600		6050918 F		1. 24	0. 06800 *		-2. 72	0. 06665	1
0014 M 600		6061045 B		1. 23	-0. 06529 *				2
				12. 07			-13. 73	5. 07518	
0014 M 600		6051020 F		1. 54	0. 55529 *		-2. 38	0. 55410	1
0015 N 600		6060937 B		1. 54	-0. 55292 *				2
				13. 61			-16. 11	5. 62928	
0015 N 600		6051222 F		1. 13	0. 24561 *		1. 23	0. 24623	1
0016 G 160		6060840 B		1. 12	-0. 24685 *				2
				14. 72			-14. 87	5. 87551	
0016 G 160		6060820 B		0. 34	-0. 75020 *		-1. 42	0. 75090	2
0017 VOLKS		6271007 F		0. 36	0. 75161 *				3
		SL 1		15. 06			-16. 29	6. 62641	
0017 VOLKS		6060745 B		0. 85	0. 47682 *		-1. 28	-0. 47618	2
0018 C 18 N		6271021 F		0. 85	-0. 47554 *				3
		SL 1		15. 90			-17. 57	6. 15023	
0018 C 18 N		6271205 F		0. 91	-0. 44941 *		2. 56	-0. 44813	3
0038 BMW 1600		7071357 B		0. 90	0. 44685 *				2
		SL 1		16. 81			-15. 01	5. 70210	
0038 BMW 1600		6271243 F		0. 14	-0. 32413 *		-0. 45	-0. 32443	3
0019 P 600		7071338 B		0. 14	0. 32489 *				2
		7100745 B		0. 14	0. 32427 *				2
		SL 1		16. 95			-15. 46	5. 37767	
0019 P 600		6271253 F		0. 66	0. 58879 *		0. 38	0. 58898	3
0020 BROCKWAY		7071250 B		0. 66	-0. 58917 *				2
		SL 1		17. 61			-15. 08	5. 96665	
0020 BROCKWAY		6271326 F		0. 89	0. 39650 *		0. 66	0. 39683	3
0021 PORSCHE 924		7071117 B		0. 89	-0. 39716 *				2
		SL 1		18. 50			-14. 42	6. 36348	
0021 PORSCHE 924		6271432 F		0. 77	0. 68867 *		-1. 48	0. 68793	3
0039 BROCKWAY AZ MK		7071035 B		0. 77	-0. 68719 *				2
		SL 1		19. 27			-15. 90	7. 05141 ⁺	

-*- FIELD ABSTRACT -*-

040602-040710 HGZ L26586 4.0 MM ORDER 1 CLASS 2 PAGE 3
 LEVELING ALONG CANAL C-18 FROM THE JUNCTION OF STATE ROAD 710 NORTH

FROM	TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0039 BROCKWAY AZ MK		7071006 B		0. 07	2. 22351 *	-0. 33	-2. 22334	2
0022 Q 600		7080740 F		0. 07	-2. 22318 *			2
		SL 1		19. 34		-16. 23	4. 82807	
0022 Q 600		7070856 B		1. 65	-0. 97133 *	0. 13	0. 97126	2
0023 R 600		7080742 F		1. 66	0. 97120 *			2
		SL 1		20. 99		-16. 10	5. 79933	
0023 R 600		7070750 B		1. 68	0. 24257 *	-1. 97	-0. 24158	2
0024 Y 547		7080915 F		1. 77	-0. 67617 R*			2
		7090743 F		1. 69	-0. 24059 *			2
		SL 1		22. 67		-18. 08	5. 55775	
0024 Y 547		7081046 F		1. 57	0. 32382 *	0. 00	0. 32382	2
0025 X 547								

L26586. ABS

		SL 1	24. 25		-18. 08	5. 88157
0025 X 547	7081235 F	1. 63	-0. 12300 *	0. 00	-0. 12300	2
0026 W 547						
		SL 1	25. 88		-18. 08	5. 75857
0016 G 160	6051315 F	1. 72	0. 85824 *	-0. 68	0. 85790	1
0032 S 600	6270845 B	1. 72	-0. 85756 *			3
			16. 44		-15. 56	6. 73341
0032 S 600	6270750 B	1. 65	0. 39035 *	-0. 30	-0. 39020	3
0033 T 600	7071445 F	1. 65	-0. 39005 *			2
			18. 09		-15. 86	6. 34321
0033 T 600	7091317 B	1. 25	-0. 87380 *	0. 94	0. 87333	2
0034 C 18 K	7091425 F	1. 25	0. 87287 *			2
			19. 33		-14. 92	7. 21654
0034 C 18 K	7091231 B	1. 23	0. 38003 *	-0. 63	-0. 37971	2
0035 U 600	7100800 F	1. 23	-0. 37940 *			2
			20. 56		-15. 55	6. 83683
0035 U 600	7100908 F	0. 19	-0. 93051 *	0. 26	-0. 93038	2
0040 FOT0Y	7101116 B	0. 16	0. 93025 *			2
		SL 1	20. 73		-15. 29	5. 90645
0040 FOT0Y	7101000 F	0. 77	0. 53184 *	-0. 06	0. 53181	2
0041 JAMBALYA	7101032 B	0. 77	-0. 53178 *			2
		SL 1	21. 49		-15. 36	6. 43826
0035 U 600	7091000 B	1. 59	0. 46861 *	-2. 31	-0. 46746	2
0031 FLGPS 67	7101158 F	1. 58	-0. 46630 *			2
			22. 14		-17. 86	6. 36937♀

-*- FIELD ABSTRACT -*-

040602-040710 HGZ L26586 4.0 MM ORDER 1 CLASS 2 PAGE 4
 LEVELING ALONG CANAL C-18 FROM THE JUNCTION OF STATE ROAD 710 NORTH

FROM TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0031 FLGPS 67	7090858	B	1. 26	0. 27819 *	0. 00	-0. 27819	2
0030 S 547			23. 41		-17. 86	6. 09118	
0030 S 547	7081405	B	1. 59	0. 21882 *	0. 00	-0. 21882	2
0029 T 547			25. 00		-17. 86	5. 87236♀	

ELEVATION REJECTION AND ERROR CODES

- C - section elevation difference was rejected for cause ie. *43* record rejection code set to "F"
- R - section elevation difference was rejected by Halperin rejection algorithm
- @ - section elevation difference does not include refraction correction
- * - section elevation difference does not include rod correction

♀

INSTRUMENT CODE	INSTRUMENT	RODS
1	243 - 332170	396 - 22960 396 - 22964
2	243 - 332163	396 - 22960 396 - 22964
3	243 - 332167	396 - 22960 396 - 22964

♀

LEVEL LINE SECTION RUNNING TREE

0001
 0002 (0003
 0004)
 0006

0007
 0008
 0036
 0009
 0010
 0011
 0012
 0013 (0037)
 0014
 0015
 0016 (0017
 0018
 0038
 0019
 0020
 0021
 0039
 0022
 0023
 0024
 0025
 0026)
 0032
 0033
 0034
 0035 (0040
 0041)
 0031
 0030
 0029[♀]

FROM	TO	N. LATITUDE	W. LONGITUDE	FIELD DISTANCE	VS. COMPUTED
	0001	265540	0800539	0.00	0.00
0001	0002	265627	0800538	1.44	1.45
0002	0003	265646	0800529	0.66	0.64
0003	0004	265653	0800520	0.36	0.33
0002	0006	265629	0800636	1.65	1.60
0006	0007	265628	0800712	1.02	0.99
0007	0008	265603	0800741	1.00	1.11
0008	0036	265604	0800828	1.37	1.30
0036	0009	265602	0800833	0.22	0.15
0009	0010	265602	0800833	0.03	0.00
0010	0011	265541	0800904	1.38	1.07
0011	0012	265511	0800942	1.33	1.40
0012	0013	265443	0801020	1.40	1.36
0013	0037	265435	0801033	0.60	0.44
0013	0014	265409	0801032	1.23	1.10
0014	0015	265321	0801034	1.54	1.48
0015	0016	265247	0801038	1.12	1.05
0016	0017	265235	0801039	0.34	0.37
0017	0018	265207	0801040	0.85	0.86
0018	0038	265139	0801029	0.90	0.91
0038	0019	265137	0801029	0.14	0.06
0019	0020	265113	0801020	0.66	0.78
0020	0021	265048	0801011	0.89	0.81
0021	0039	265023	0801002	0.77	0.81
0039	0022	265022	0801001	0.07	0.04
0022	0023	264930	0800942	1.65	1.68
0023	0024	264845	0800925	1.68	1.46
0024	0025	264917	0801013	1.57	1.65
0025	0026	264948	0801100	1.63	1.61
0016	0032	265254	0801133	1.72	1.53
0032	0033	265255	0801232	1.65	1.63
0033	0034	265255	0801316	1.25	1.21
0034	0035	265252	0801402	1.23	1.27
0035	0040	265257	0801400	0.16	0.16
0040	0041	265240	0801419	0.77	0.74
0035	0031	265218	0801443	1.58	1.54
0031	0030	265154	0801408	1.26	1.22
0030	0029	265123	0801322	1.59	1.59 [♀]

SECTION
FROM TO

E R R O R M E S S A G E S

0005 *** Bench mark description exists but mark not leveled to.
0027 *** Bench mark description exists but mark not leveled to.
0028 *** Bench mark description exists but mark not leveled to.

-*- FIELD ABSTRACT -*-

040602-040710 HGZ L26586 4.0 MM ORDER 1 CLASS 2 PAGE 1
 LEVELING ALONG CANAL C-18 FROM THE JUNCTION OF STATE ROAD 710 NORTH
 AND EAST TO STATE ROAD 706 THENCE EAST ALONG STATE ROAD 706 TO
 JUPITER, FLORIDA AREA.
 STARTING ELEVATION BASED ON NGVD 29 HEIGHTS.
 NOTE COLLIMATION STORED IN ELECTRONIC INSTRUMENT.
 NOTE LATITUDE AND LONGITUDE WAS SCALED FROM TOPOGRAPHIC MAP.

FROM	TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	I C	
0001 Z 232							2.29300		
0001 Z 232		6021022	F	1.44	-0.16225	*	0.00	-0.16225	1
0002 Y 402				1.44			0.00	2.13075	
0002 Y 402		6021216	F	0.66	1.66007	*	0.30	1.66022	1
0003 B 232		6030736	B	0.66	-1.66037	*	0.30	3.79097	2
		SL 1		2.10			0.30	3.79097	
0003 B 232		6030840	F	0.36	2.47876	*	0.00	2.47876	2
0004 872 2492 C TIDAL		SL 1		2.46			0.30	6.26973	
0002 Y 402		6021300	F	1.65	-0.29044	*	-4.56	-0.29272	1
0006 G 600		6031340	B	1.66	0.29500	*	-4.56	1.83803	2
				3.09					
0006 G 600		6021424	F	1.02	0.63709	*	0.05	0.63712	1
0007 H 600		6031252	B	1.02	-0.63715	*	-4.51	2.47515	2
				4.10					
0007 H 600		6031210	B	1.00	-0.17410	*	-1.19	0.17470	2
0008 J 600		6031530	F	1.00	0.17529	*	-5.69	2.64985	2
				5.11					
0008 J 600		6031000	B	1.38	-2.38259	*	-1.23	2.38320	2
0036 FCE 1674		6040731	F	1.37	2.38382	*	-6.93	5.03305	3
				6.48					
0036 FCE 1674		6040833	F	0.23	1.47756	*	0.12	1.47761	3
0009 JENKINS		6041144	B	0.22	-1.47767	*	-6.81	6.51066	3
				6.70					
0009 JENKINS		6040912	F	0.03	0.12559	*	-0.12	0.12553	3
0010 JENKINS RM 2		6041138	B	0.03	-0.12547	*	-6.94	6.63619	3
				6.73					
0010 JENKINS RM 2		6040918	F	1.39	0.76405	*	-1.96	0.76307	3
0011 24.37		6041020	B	1.38	-0.76209	*	-8.90	7.39926	3
				8.11					
0011 24.37		6050725	F	1.33	0.06706	*	0.93	0.06752	1
0012 K 600		6061510	B	1.35	-0.06799	*	-7.97	7.46678	2
				9.44					

-*- FIELD ABSTRACT -*-

040602-040710 HGZ L26586 4.0 MM ORDER 1 CLASS 2 PAGE 2
 LEVELING ALONG CANAL C-18 FROM THE JUNCTION OF STATE ROAD 710 NORTH
 AND EAST TO STATE ROAD 706 THENCE EAST ALONG STATE ROAD 706 TO
 JUPITER, FLORIDA AREA.

FROM	TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	I C
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NGVD29. ABS

0012 K 600	6050815 F	1.40	-1.99573 *	-3.04	-1.99725	1
0013 L 600	6061412 B	1.40	1.99877 *			2
		10.84		-11.01	5.46953	
0013 L 600	6061303 F	0.60	0.13361 *	-2.40	0.13241	2
0037 G 92	6061345 B	0.61	-0.13122 *			2
	SL 1	11.44		-13.41	5.60194	
0013 L 600	6050918 F	1.24	0.06800 *	-2.72	0.06665	1
0014 M 600	6061045 B	1.23	-0.06529 *			2
		12.07		-13.73	5.53618	
0014 M 600	6051020 F	1.54	0.55529 *	-2.38	0.55410	1
0015 N 600	6060937 B	1.54	-0.55292 *			2
		13.61		-16.11	6.09028	
0015 N 600	6051222 F	1.13	0.24561 *	1.23	0.24623	1
0016 G 160	6060840 B	1.12	-0.24685 *			2
		14.72		-14.87	6.33651	
0016 G 160	6060820 B	0.34	-0.75020 *	-1.42	0.75090	2
0017 VOLKS	6271007 F	0.36	0.75161 *			3
	SL 1	15.06		-16.29	7.08741	
0017 VOLKS	6060745 B	0.85	0.47682 *	-1.28	-0.47618	2
0018 C 18 N	6271021 F	0.85	-0.47554 *			3
	SL 1	15.90		-17.57	6.61123	
0018 C 18 N	6271205 F	0.91	-0.44941 *	2.56	-0.44813	3
0038 BMW 1600	7071357 B	0.90	0.44685 *			2
	SL 1	16.81		-15.01	6.16310	
0038 BMW 1600	6271243 F	0.14	-0.32413 *	-0.45	-0.32443	3
0019 P 600	7071338 B	0.14	0.32489 *			2
	7100745 B	0.14	0.32427 *			2
	SL 1	16.95		-15.46	5.83867	
0019 P 600	6271253 F	0.66	0.58879 *	0.38	0.58898	3
0020 BROCKWAY	7071250 B	0.66	-0.58917 *			2
	SL 1	17.61		-15.08	6.42765	
0020 BROCKWAY	6271326 F	0.89	0.39650 *	0.66	0.39683	3
0021 PORSCHE 924	7071117 B	0.89	-0.39716 *			2
	SL 1	18.50		-14.42	6.82448	
0021 PORSCHE 924	6271432 F	0.77	0.68867 *	-1.48	0.68793	3
0039 BROCKWAY AZ MK	7071035 B	0.77	-0.68719 *			2
	SL 1	19.27		-15.90	7.51241	

*- FIELD ABSTRACT *-

040602-040710 HGZ L26586 4.0 MM ORDER 1 CLASS 2 PAGE 3
 LEVELING ALONG CANAL C-18 FROM THE JUNCTION OF STATE ROAD 710 NORTH
 AND EAST TO STATE ROAD 706 THENCE EAST ALONG STATE ROAD 706 TO
 JUPITER, FLORIDA AREA.

FROM TO	START	F/B	DI ST TOTAL (KM)	ELEV DI FF (MT)	-(F+B) TOTAL (MM)	MEAN DI FF FLD ELEV (MT)	I C
0039 BROCKWAY AZ MK	7071006 B	0.07	2.22351 *	-0.33	-2.22334	2	
0022 Q 600	7080740 F	0.07	-2.22318 *			2	
	SL 1	19.34		-16.23	5.28907		
0022 Q 600	7070856 B	1.65	-0.97133 *	0.13	0.97126	2	
0023 R 600	7080742 F	1.66	0.97120 *			2	
	SL 1	20.99		-16.10	6.26033		
0023 R 600	7070750 B	1.68	0.24257 *	-1.97	-0.24158	2	

NGVD29. ABS

0024 Y 547	7080915 F	1.77	-0.67617 R*				2
	7090743 F	1.69	-0.24059 *				2
	SL 1	22.67		-18.08	6.01875		
0024 Y 547	7081046 F	1.57	0.32382 *	0.00	0.32382		2
0025 X 547							
	SL 1	24.25		-18.08	6.34257		
0025 X 547	7081235 F	1.63	-0.12300 *	0.00	-0.12300		2
0026 W 547							
	SL 1	25.88		-18.08	6.21957		
0016 G 160	6051315 F	1.72	0.85824 *	-0.68	0.85790		1
0032 S 600	6270845 B	1.72	-0.85756 *				3
		16.44		-15.56	7.19441		
0032 S 600	6270750 B	1.65	0.39035 *	-0.30	-0.39020		3
0033 T 600	7071445 F	1.65	-0.39005 *				2
		18.09		-15.86	6.80421		
0033 T 600	7091317 B	1.25	-0.87380 *	0.94	0.87333		2
0034 C 18 K	7091425 F	1.25	0.87287 *				2
		19.33		-14.92	7.67754		
0034 C 18 K	7091231 B	1.23	0.38003 *	-0.63	-0.37971		2
0035 U 600	7100800 F	1.23	-0.37940 *				2
		20.56		-15.55	7.29783		
0035 U 600	7100908 F	0.19	-0.93051 *	0.26	-0.93038		2
0040 FOT0Y	7101116 B	0.16	0.93025 *				2
	SL 1	20.73		-15.29	6.36745		
0040 FOT0Y	7101000 F	0.77	0.53184 *	-0.06	0.53181		2
0041 JAMBALYA	7101032 B	0.77	-0.53178 *				2
	SL 1	21.49		-15.36	6.89926		
0035 U 600	7091000 B	1.59	0.46861 *	-2.31	-0.46746		2
0031 FLGPS 67	7101158 F	1.58	-0.46630 *				2
		22.14		-17.86	6.83037♀		

-*- FIELD ABSTRACT -*-

040602-040710 HGZ L26586 4.0 MM ORDER 1 CLASS 2 PAGE 4
 LEVELING ALONG CANAL C-18 FROM THE JUNCTION OF STATE ROAD 710 NORTH
 AND EAST TO STATE ROAD 706 THENCE EAST ALONG STATE ROAD 706 TO
 JUPITER, FLORIDA AREA.

FROM TO	START	F/B	DIST TOTAL (KM)	ELEV DIFF (MT)	-(F+B) TOTAL (MM)	MEAN DIFF FLD ELEV (MT)	I C
0031 FLGPS 67	7090858 B		1.26	0.27819 *	0.00	-0.27819	2
0030 S 547			23.41		-17.86	6.55218	
0030 S 547	7081405 B		1.59	0.21882 *	0.00	-0.21882	2
0029 T 547			25.00		-17.86	6.33336♀	

ELEVATION REJECTION AND ERROR CODES

- C - section elevation difference was rejected for cause i.e. *43* record rejection code set to "F"
- R - section elevation difference was rejected by Halperin rejection algorithm
- @ - section elevation difference does not include refraction correction
- * - section elevation difference does not include rod correction

INSTRUMENT CODE	INSTRUMENT	RODS
1	243 - 332170	396 - 22960 396 - 22964
2	243 - 332163	396 - 22960 396 - 22964

♀

LEVEL LINE SECTION RUNNING TREE

0001
 0002 (0003
 0004)
 0006
 0007
 0008
 0036
 0009
 0010
 0011
 0012
 0013 (0037)
 0014
 0015
 0016 (0017
 0018
 0038
 0019
 0020
 0021
 0039
 0022
 0023
 0024
 0025
 0026)
 0032
 0033
 0034
 0035 (0040
 0041)
 0031
 0030
 0029♀

FROM	TO	N. LATITUDE	W. LONGITUDE	FIELD DISTANCE	VS. COMPUTED
	0001	265540	0800539	0.00	0.00
0001	0002	265627	0800538	1.44	1.45
0002	0003	265646	0800529	0.66	0.64
0003	0004	265653	0800520	0.36	0.33
0002	0006	265629	0800636	1.65	1.60
0006	0007	265628	0800712	1.02	0.99
0007	0008	265603	0800741	1.00	1.11
0008	0036	265604	0800828	1.37	1.30
0036	0009	265602	0800833	0.22	0.15
0009	0010	265602	0800833	0.03	0.00
0010	0011	265541	0800904	1.38	1.07
0011	0012	265511	0800942	1.33	1.40
0012	0013	265443	0801020	1.40	1.36
0013	0037	265435	0801033	0.60	0.44
0013	0014	265409	0801032	1.23	1.10
0014	0015	265321	0801034	1.54	1.48
0015	0016	265247	0801038	1.12	1.05
0016	0017	265235	0801039	0.34	0.37
0017	0018	265207	0801040	0.85	0.86
0018	0038	265139	0801029	0.90	0.91
0038	0019	265137	0801029	0.14	0.06
0019	0020	265113	0801020	0.66	0.78
0020	0021	265048	0801011	0.89	0.81
0021	0039	265023	0801002	0.77	0.81
0039	0022	265022	0801001	0.07	0.04
0022	0023	264930	0800942	1.65	1.68
0023	0024	264845	0800925	1.68	1.46
0024	0025	264917	0801013	1.57	1.65
0025	0026	264948	0801100	1.63	1.61
0016	0032	265254	0801133	1.72	1.53

NGVD29. ABS

0032	0033	265255	0801232	1.65	1.63
0033	0034	265255	0801316	1.25	1.21
0034	0035	265252	0801402	1.23	1.27
0035	0040	265257	0801400	0.16	0.16
0040	0041	265240	0801419	0.77	0.74
0035	0031	265218	0801443	1.58	1.54
0031	0030	265154	0801408	1.26	1.22
0030	0029	265123	0801322	1.59	1.59 ⁺

Windows Abstra Versi on 1.2 -- Oct. 2001 -- Thu Jul 15 11:09:51 2004

SECTION

FROM TO

E R R O R M E S S A G E S

- 0005 *** Bench mark description exists but mark not leveled to.
- 0027 *** Bench mark description exists but mark not leveled to.
- 0028 *** Bench mark description exists but mark not leveled to.