Specific Purpose Survey of the Stilling Well(s)
L31NN Site.
Dade County, Florida

South Florida Water Management District's Purchase Order number 4500001526

Keith and Schnars project number 16434.00,

Task 22164

Report Date: October 14, 2006

Submittal: First

Prepared for:

South Florida Water Management District

Prepared by:



6500 N. Andrews Avenue

Ft. Lauderdale, Florida 33309-2132 Ph. (954) 776-1616 Fax (954) 351-7643 Licensed Business (L.B.) 1337

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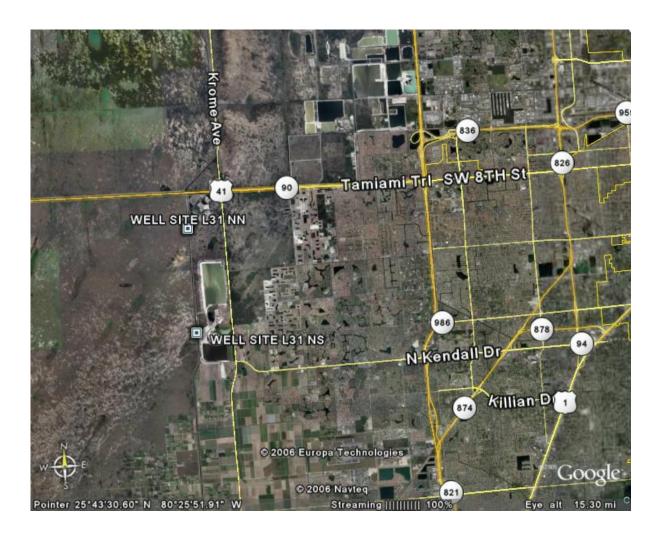
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PURPOSE

To establish vertical data (NAVD 1988 and NGVD 1929)) on the Stilling Wells at the structure. Verify or establish an onsite benchmark.

LOCATION OF PROJECT

The project is located in Dade County, Florida.



ITEMS DELIVERED TO THE DISTRICT

- 1. Electronic copy of field notes.
- 2. Electronic copy of all computation sheets.
- 3. CORPSMET 95 file.
- 4. Site photographs.
- 5. Surveyor's Report.

DATUM FOR THE PROJECT

The elevation data was computed in North American Vertical Datum (NAVD) of 1988. Elevations in National Geodetic Vertical Datum (NGVD) of 1929 in this report 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data provided by the South Florida Water Management District in a file named NGVD29.txt" when applicable, otherwise NGS superseded values were used.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 NGS offset value for this report was derived using Benchmark Q-503, having a NAVD 1988 value of 5.74' and a NGVD 1929.txt file value of 7.305'. The SFWMD offset value for this report was derived using the published elevations for Benchmark JBA 33, NAVD 1988 value of 6.440' and a NGVD 1929.txt file value of 7.996'.

LEVELING METHODS

A level loop was run starting at Benchmark Q-503 running through benchmark JBA 33 and back to Q-503. The level run and elevations were established using a Leica NA2 conventional level and three-wire observation method.

VERTICAL CONTROL

BM Q-503	Elevation:	NAVD 1988	5.74'	NGVD 1929	7.305'
PID AJ8371	Latitude	25°44'25" Scaled			
State/County FL/Dade	Longitude	-80°29'51" Scaled			
USGS QUAD South Miami NW (1988)					
Vert. Order First					



The mark is about 16.0 mi (25.7 km) North of Homestead, 8.5 mi (13.7 km) Northwest of Kendall, in Section 14, Township 54 South, Range 38 East. To reach the mark from the junction of State Road 997 (Krome Avenue SW 177 Avenue) and U.S. Highway 41 (Tamiami Trail SW 8th St) about 10.0 mi (16.1 km) Southwest of Hialeah, go West on U.S. Highway 41(Tamiami Trail SW 8th St) for 1.0 mi (1.6 km) to the West end of bridge number 8705851979 and the junction of a levee road (L-31N) on the West side of the canal, turn left on levee road (L-31N) and go South for 1.45 mi (2.33 km) to the mark on the left, a stainless steel rod driven to refusal at a depth of 28.6 ft (8.7 m) with a NGS logo cap flush with the ground, the datum point is recessed 0.8 ft (24.4 cm) below the level of the NGS logo cap. Located 39.6 ft (12.1 m) East of the approximate centerline of the levee road, 30.0 ft (9.1 m) West of the approximate edge of the canal and 2.0 ft (0.6 m) East of a carsonite witness post. Note bar magnet was placed inside the NGS logo cap. Note access to the datum point is had through a 5-inch NGS logo cap.

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VERTICAL CONTROL

JBA 33	Elevation:	NAVD 1988	6.440'	NGVD 1929	7.996'
PID AJ8370	Latitude	25°44'42" (Scaled)			
State/County FL/Dade	Longitude	-80°29'52" (Scaled)			
USGS QUAD South Miami NW (1988)					
Vert, Order First					



The mark is about 18.2 mi (29.3 km) North of Homestead, 9.0 mi (14.5 km) Northwest of Kendall, in Section 11, Township 54 South, Range 38 East. To reach the mark from the junction of State Road 997 (Krome Avenue SW 177 Avenue) and U.S. Highway 41 (Tamiami Trail SW 8th St) about 10.0 mi (16.1 km) Southwest of Hialeah, go West on U.S. Highway 41 (Tamiami Trail SW 8th St) for 1.0 mi (1.6 km) to the West end of bridge number 8705851979 and the junction of a levee road (L-31N) on the West side of the canal, turn left on levee road (L-31N) and go South for 1.1 mi (1.8 km) to the mark on the left, a 5/8-inch stainless steel rod set in concrete encased in a 4inch PVC pipe projecting 0.5 ft (15.2 cm) above the level of the ground and above the level of the levee road. Located 65.6 ft (20.0 m) East of the approximate centerline of the levee road, 23.5 ft (7.2 m) East of the approximate centerline of a turnout, 12.0 ft (3.7 m) West of a U.S. Geological survey storm gage in the water, 2.7 ft (0.8 m) East of the Southeast corner of a 4.0 ft (1.2 m) x 7.0 ft (2.1 m) block building and 1.0 ft (0.3 m) West of a carsonite witness post.

PROJECT RESULTS

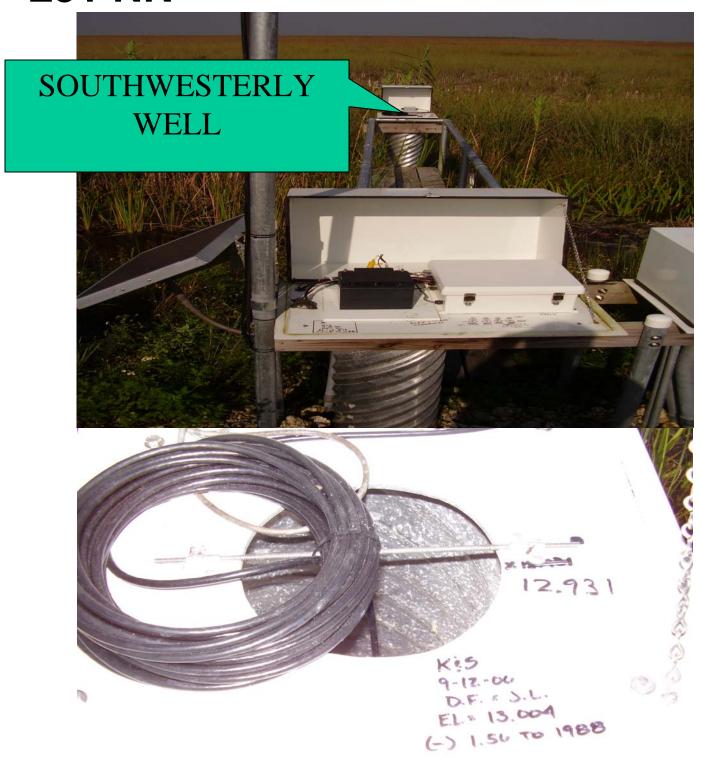
Northerly Well:	Southwesterly Well:	Southeasterly Well:	Easterly Well:
Reference mark: Found X mark on wood platform over well. New Reference Mark El. 8.90' (NGVD '29) (Wrote -1.56' to NAVD 1988). Initials: K&S D.F., J.L. Date:	Reference mark: Found X mark on metal platform over well. New Reference Mark El. 13.004' (NGVD '29) (Wrote -1.56' to NAVD 1988). Initials: K&S D.F., J.L. Date:	Reference mark: Set X mark on metal platform over well. New Reference Mark El. 12.879' (NGVD '29) (Wrote -1.56' to NAVD 1988). Initials: K&S D.F., J.L.	Reference mark: Found mark on wood platform over well. New Reference Mark El. 10.96' (NGVD '29) (Wrote -1.56' to NAVD 1988). Initials: K&S D.F., J.L.
written at the mark: El. 8.883' Date: 05/19/95 By: XO/EF Reference Mark location: Same mark as above.	written at the mark: El. 12.931' Date: None By: None Reference Mark location: Same mark as above.	Date: 9/12/06 written at the mark: El. 12.806' Date: Unable to read By: Crossroads Reference Mark location: Previous mark covered by equipment.	Date: 9/12/06 written at the mark: El. 13.31' Date: 04/30/04 By: M.O./S.B. Reference Mark location: Same mark as above.
	Staff Gage at Southwest Well: Reading: 9.00 (ft) NGVD 1929 Actual: 7.48 (ft) NAVD 1988		

PROJECT RESULTS

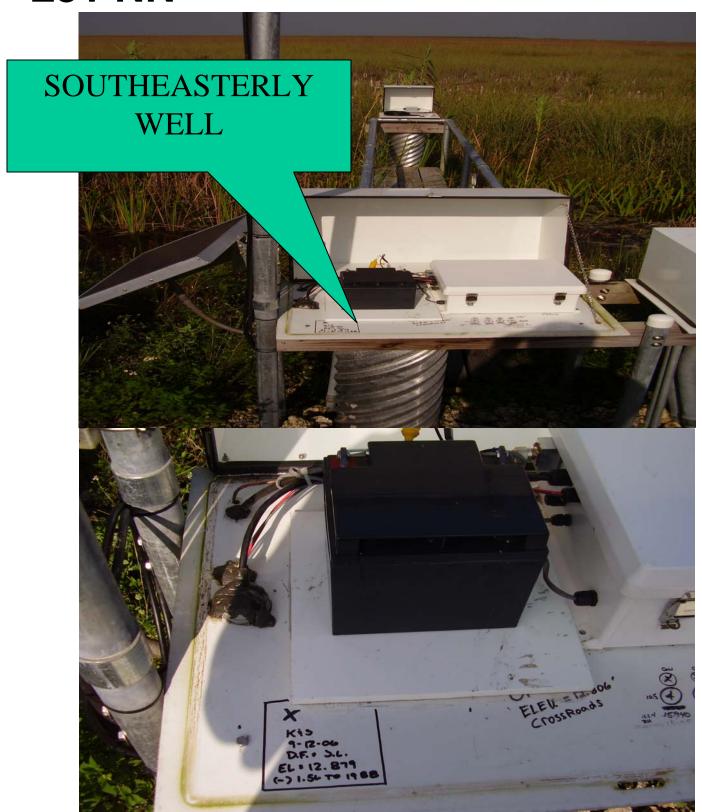
GW1	GW2	GW3	GW4
Northerly Manhole:	2 nd Manhole heading South:	3 rd Manhole heading South:	South Manhole:
Reference mark: <u>Set</u> marker mark on PVC pipe.	Reference mark: Set marker mark on PVC pipe.	Reference mark: <u>Set</u> <u>marker mark on PVC</u> <u>pipe.</u>	Reference mark: <u>Set</u> marker mark on PVC pipe.
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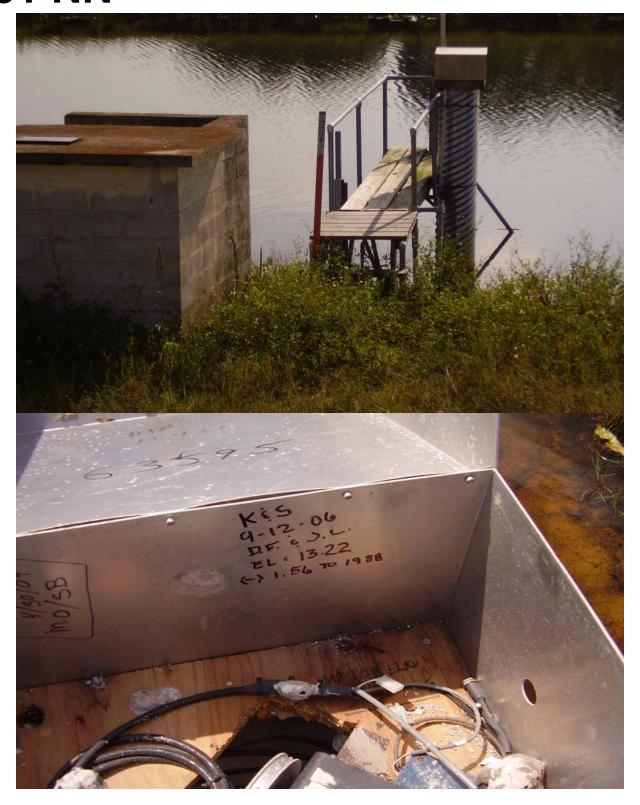
09/12/06 Keith and Schnars, P.A. Northerly Well



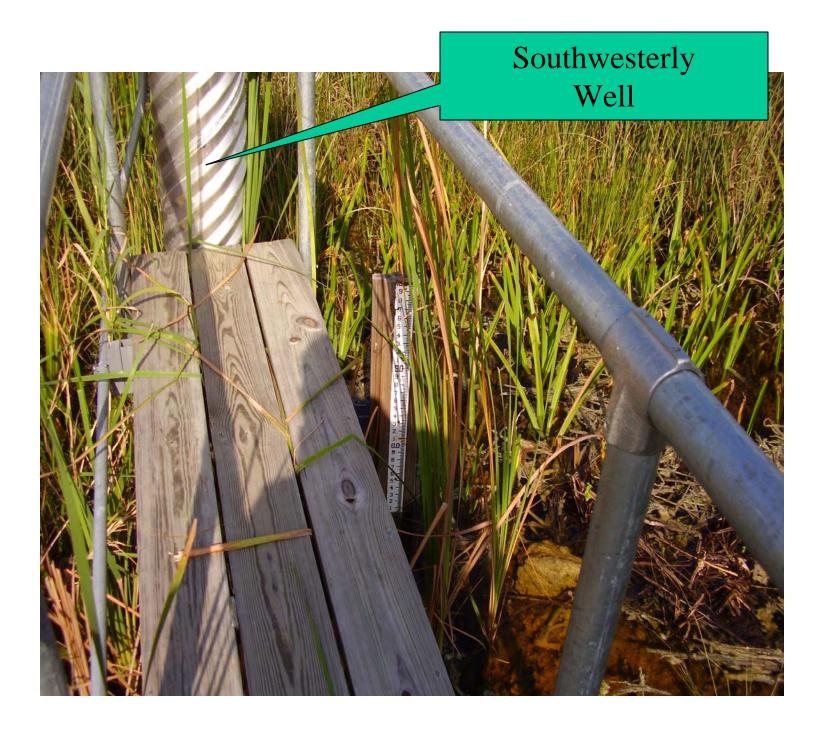
09/12/06 Keith and Schnars, P.A. Southwesterly Well



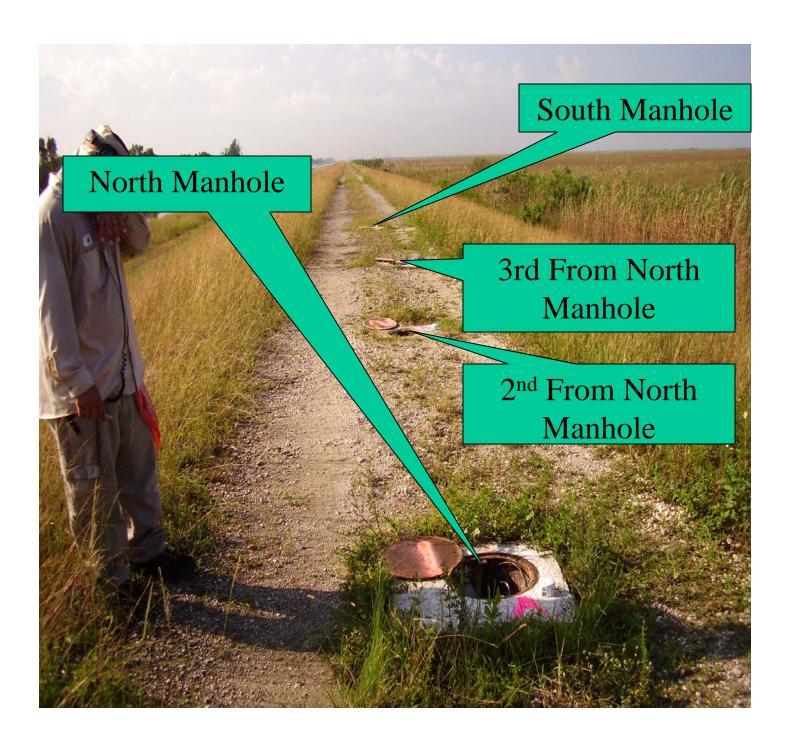
09/12/06 Keith and Schnars, P.A. Southeasterly Well



09/12/06 Keith and Schnars, P.A. Easterly Well



09/12/06 Keith and Schnars, P.A. Staff Gage

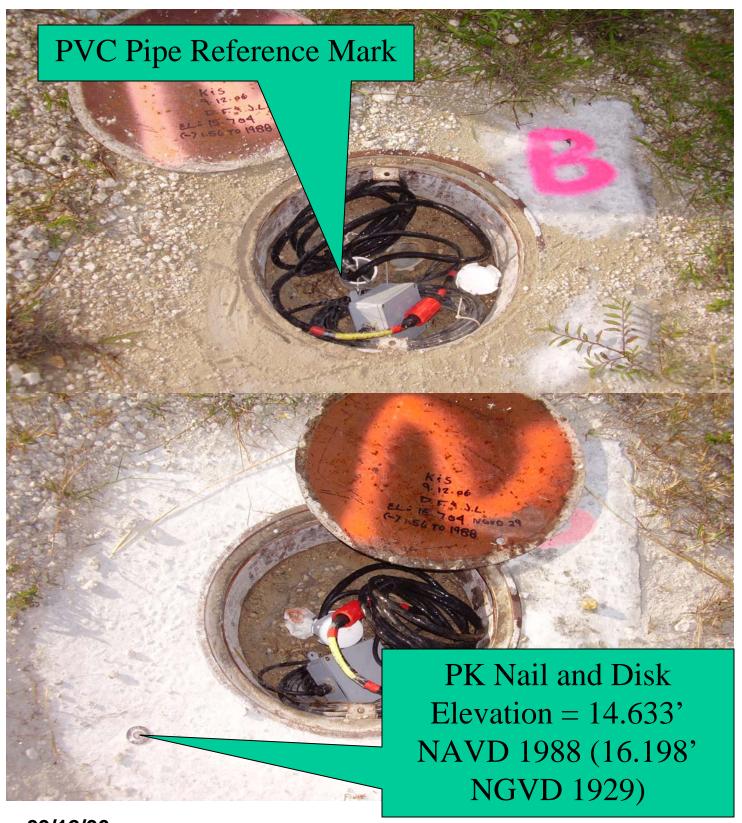


09/12/06
Keith and Schnars, P.A.
Manhole Locations

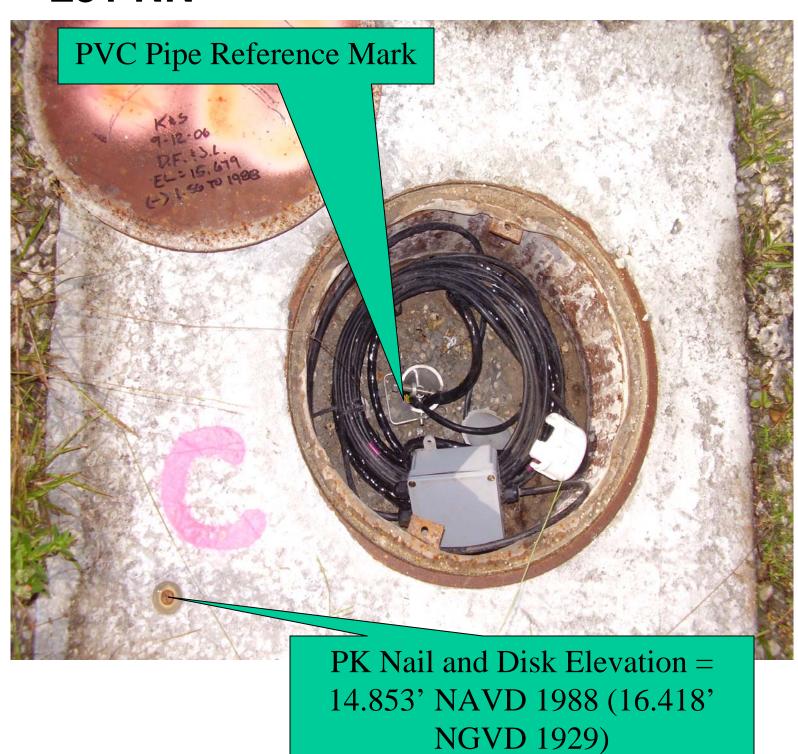
PVC Pipe Reference Mark



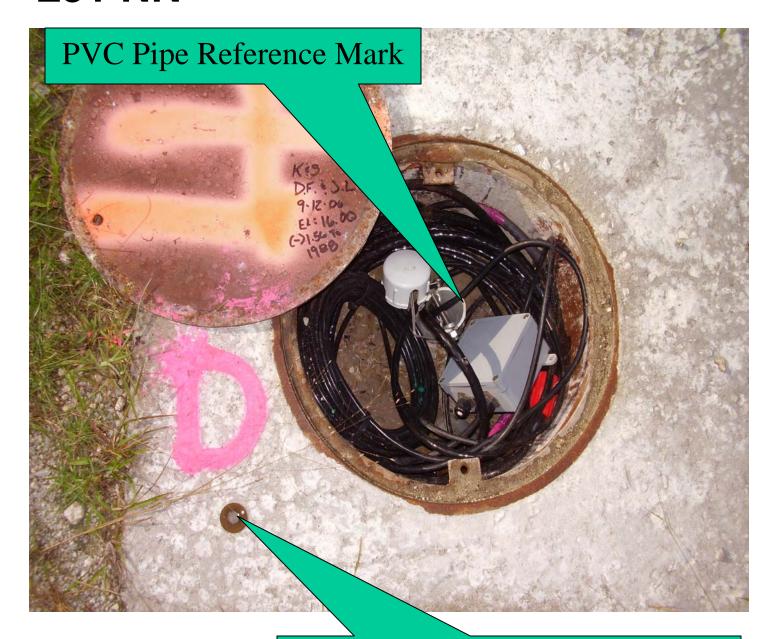
09/12/06
Keith and Schnars, P.A.
North Manhole



09/12/06
Keith and Schnars, P.A.
2nd From North Manhole



09/12/06
Keith and Schnars, P.A.
3rd From North Manhole



PK Nail and Disk Elevation = 14.973' NAVD 1988 (16.538' NGVD 1929)

09/12/06
Keith and Schnars, P.A.
South Manhole

Comments:

Party Chief: D. Ferels Field Book: 1224 Page 26-29

Bench Mark: "JBA 33" El. 6.433', Vertical Datum: NAVD1988

El. 7.998', Vertical Datum: NGVD1929

Offset: 1.556' SFWMD VALUE (From previous elevations on SFWMD data sheet for

Benchmark JBA 33), subtract this value to convert to NAVD 1988

Offset: 1.565' NGS VALUE (using NGVD 1929 TXT file and NAVD 1988 value from

data sheet at Benchmark O-503), subtract this value to convert to NAVD 1988

NAVD 88 - North American Vertical Datum of 1988 NGVD29 -National Geodetic Vertical Datum of 1929 NAD 83-99 (Horizontal Datum) North American Datum NGS- National Geodetic Survey SFWMD- South Florida Water Management District

PVC- Polyvinyl Chloride

SURVEYOR'S CERTIFICATION

I hereby certify that this Specific Purpose 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.

KEITH and SCHNARS, PA. L.B. number 1337

Date of Survey

Michael M. Mossey, PSM

September 12, 2006

Professional Surveyor and Mapper
State of Florida
Certificate No. 5660

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L31NN	16434.00	PARTY CHIEF	D. FERELS	DATE:	September	11, 2006		Datum:	NAVD88	FIELD BOOK 1224	PAGES 26-28		
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	7.000												
ВМ	7.300	6.033	11.773			E 740	E 740						NCC DM O 502
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TP1	5.110	5.107	11.692	5.190	5.188	6.585		503.50	0.000000000	0.000000000	6.585	2.007	
	3.880			3.935				2.50					
	15.320			3.935				2.50					
STADIA		245.000			250.500								
	6.410			6.120									
TP2	5.190	5.190	11.997		4.885	6.807		492.00	0.000000000	0.000000000	6.807	2.075	
	3.970			3.650				-2.00					
CTADIA	15.570			14.655	247.000			0.50					
STADIA		244.000			247.000								
	6.730			6.645									
TP3	5.480	5.480	12.058		5.418	6.578		489.50	0.000000000	0.000000000	6.578	2.005	
	4.230	0.100	12.000	4.190	0.110	0.070		-1.50	0.00000000	0.00000000	0.070	2.000	
	16.440			16.255				-1.00					
STADIA		250.000		10.200	245.500								
	5.740			6.580									
TP4	5.155	5.155	11.873		5.340	6.718		498.00	0.000000000	0.000000000	6.718	2.048	
	4.570			4.100				2.00					
	15.465			16.020				1.00					
STADIA		117.000			248.000								

L31NN	16434.00	PARTY CHIEF	D. FERELS	DATE:	September	11, 2006		Datum:	NAVD88	FIELD BOOK 1224	PAGES 26-28		
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	13.360			6.020									
TP5	13.020	13.020	19.453	5.440	5.440	6.433		233.00	0.000000000	0.000000000	6.433	1.961	SITE BM JBA 33 AT L31 NN
	12.680			4.860				1.00					
	39.060			16.320				2.00					
STADIA		68.000			116.000								
	F 000			4.070									
TP6	5.030 4.805	4.805	19.778	4.870 4.480	4.480	14.973		146.00	0.000000000	0.000000000	14.973	4.564	
110	4.580	4.005	19.776	4.480	4.400	14.973		-10.00	0.00000000	0.000000000	14.973	4.504	
	14.415			13.440				-8.00					
STADIA	14.415	45.000		13.440	78.000			-6.00					
STADIA		43.000			70.000								
	6.680			13.400									
TP7	5.460	5.460	12.038		13.200	6.578		85.00	0.000000000	0.000000000	6.578	2.005	
	4.240			13.000		0.000		5.00					
	16.380			39.600				-3.00					
STADIA		244.000		-	40.000								
	6.550			6.660									
TP8	5.330	5.330	11.928	5.440	5.440	6.598		488.00	0.000000000	0.000000000	6.598	2.011	
	4.110			4.220				0.00					
	15.990			16.320				-3.00					
STADIA		244.000			244.000								
	6.410			6.490									
TP9	5.180	5.180	11.858	5.250	5.250	6.678		492.00	0.000000000	0.000000000	6.678	2.036	
	3.950			4.010				-4.00					
	15.540			15.750				-7.00					
STADIA		246.000			248.000								

L31NN	16434.00	PARTY CHIEF	D. FERELS	DATE:	September	11, 2006		Datum:	NAVD88	FIELD BOOK 1224	PAGES 26-28		
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
		,											
	6.740			6.560									
TP10	5.480	5.477	11.995	5.340	5.340	6.518		490.00	0.000000000	0.000000000	6.518	1.987	
	4.210			4.120				2.00					
	16.430			16.020				-5.00					
STADIA		253.000			244.000								
	5.220			6.320									
TP11	4.870	4.870	11.785	5.080	5.080	6.915		248.00	0.000000000	0.000000000	6.915	2.108	
	4.520			3.840				-248.00					
	14.610			15.240				0.00					
STADIA		70.000			248.000								
				6.435									
BM				6.045	6.045	5.740	5.740	148.00	0.000000000	0.000000000	5.740	1.750	BM CHECK @ Q-503
				5.655				-8.00					
				18.135				-8.00					
					78.000								
-								4500.00		0 1/50/51/ 0 4 4 5			
							LOR=		CHECK VALUES T				
-		0070 000			0007.000				OR TO SEE THEY				
	TOTAL + =	2279.000		TOTAL - =	2287.000			4566.00	THIRD ORDER SP	ECS(MAX DIFF.	33 F1.)		
					-8.00	001105	0.000						
						OSURE=							
		MTS ALLOWABLE ERROR FOR THIRD ORDER=					0.000						
		MISA	LLOWABLE	EKKOR		L.	0.028	DED "					
					ACTUAL	ERROR=	0.000	KED II	BADGREEN IF	GOOD			

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L31NN	16434.00	PARTY CHIEF	D. FERELS	DATE:	September	11, 2006		Datum:	NGVD29	FIELD BOOK 1224	PAGES 26-28		
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	7.000												
BM	7.300 6.030	6.033	13.338			7.305	7.305						NGS BM Q-503
DIVI	4.770	6.033	13.338			7.305	7.305						INGS BIVI Q-503
-	4.770												
STADIA		253.000											
O I / (Bi) (200.000											
	6.330			6.440									
TP1	5.110	5.107	13.257	5.190	5.188	8.150		503.50	0.000000000	0.000000000	8.150	2.484	
	3.880			3.935				2.50					
	15.320			3.935				2.50					
STADIA		245.000			250.500								
	6.410			6.120									
TP2	5.190	5.190	13.562	4.885	4.885	8.372		492.00	0.000000000	0.000000000	8.372	2.552	
	3.970			3.650				-2.00					
OTA DIA	15.570			14.655	0.47.000			0.50					
STADIA		244.000			247.000								
	6.730			6.645									
TP3	5.480	5.480	13.623	5.420	5.418	8.143		489.50	0.000000000	0.000000000	8.143	2.482	
	4.230	0.400	10.020	4.190	0.410	0.140		-1.50	0.00000000	0.00000000	0.140	2.402	
	16.440			16.255				-1.00					
STADIA	10.110	250.000		10.200	245.500			1.00					
	5.740			6.580									
TP4	5.155	5.155	13.438	5.340	5.340	8.283		498.00	0.000000000	0.000000000	8.283	2.525	
	4.570			4.100				2.00					
	15.465			16.020				1.00					
STADIA		117.000			248.000								

L31NN	16434.00	PARTY CHIEF	D. FERELS	DATE:	September	11, 2006		Datum:	NGVD29	FIELD BOOK 1224	PAGES 26-28		
STATION	3 WIRE	AVG.(ENG)	НІ	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	13.360			6.020									
TP5	13.020	13.020	21.018	5.440	5.440	7.998		233.00	0.000000000	0.000000000	7.998	2.438	SITE BM JBA 33 AT L31 NN
	12.680			4.860				1.00					
	39.060			16.320				2.00					
STADIA		68.000			116.000								
	5.000			4.070									
TDC	5.030	4.005	04.040	4.870	4.400	40.500		1.10.00	0.00000000	0.00000000	40 500	5.044	
TP6	4.805 4.580	4.805	21.343	4.480 4.090	4.480	16.538		146.00 -10.00	0.000000000	0.000000000	16.538	5.041	
	14.415			13.440				-8.00					
STADIA	14.413	45.000		13.440	78.000			-0.00		+			
STADIA		43.000			70.000								
	6.680			13.400									
TP7	5.460	5.460	13.603		13.200	8.143		85.00	0.000000000	0.000000000	8.143	2.482	
1111	4.240	3.133	101000	13.000	10.200	011.10		5.00	0.00000000	0.00000000	011.10		
	16.380			39.600				-3.00					
STADIA		244.000			40.000			0.00					
	6.550			6.660									
TP8	5.330	5.330	13.493	5.440	5.440	8.163		488.00	0.000000000	0.000000000	8.163	2.488	
	4.110			4.220				0.00					
	15.990			16.320				-3.00					
STADIA		244.000			244.000								
	6.410			6.490									
TP9	5.180	5.180	13.423	5.250	5.250	8.243		492.00	0.000000000	0.000000000	8.243	2.513	
	3.950			4.010				-4.00					
	15.540			15.750				-7.00					
STADIA		246.000			248.000								

L31NN	16434.00	PARTY CHIEF	D. FERELS	DATE:	September	11, 2006		Datum:	NGVD29	FIELD BOOK 1224	PAGES 26-28		
STATION	3 WIRE	AVG.(ENG)	н	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	6.740			6.560									
TP10	5.480	5.477	13.560		5.340	8.083		490.00	0.000000000	0.000000000	8.083	2.464	
	4.210			4.120				2.00					
	16.430			16.020				-5.00					
STADIA		253.000			244.000								
	5.220			6.320									
TP11	4.870	4.870	13.350		5.080	8.480		248.00	0.000000000	0.000000000	8.480	2.585	
	4.520			3.840				-248.00					
	14.610			15.240				0.00					
STADIA		70.000			248.000								
				6.435									
ВМ				6.045	6.045	7.305	7.305	148.00	0.000000000	0.000000000	7.305	2.227	BM CHECK @ Q-503
				5.655				-8.00					
				18.135				-8.00					
					78.000								
							LOR=		CHECK VALUES T				
									OR TO SEE THEY ARE WITHIN				
	TOTAL + =	2279.000		TOTAL -=	2287.000			4566.00	THIRD ORDER SP	ECS(MAX DIFF. :	33 FT.)		
					-8.00								
						OSURE=							
		MTS ALLOWABLE ERROR FOR THIRD ORDER=					0.000						
							0.028						
					ACTUAL	ERROR=	0.000	RED II	BADGREEN IF	GOOD			

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