Specific Purpose Survey of the Stilling Well Site WRWX

Polk County, Florida

South Florida Water Management Districts

Purchase Order number 4500009354

Keith and Schnars project number 16434.00,

Task 22187

Report Date: July 23, 2007

Prepared for:

South Florida Water Management District

Prepared by:



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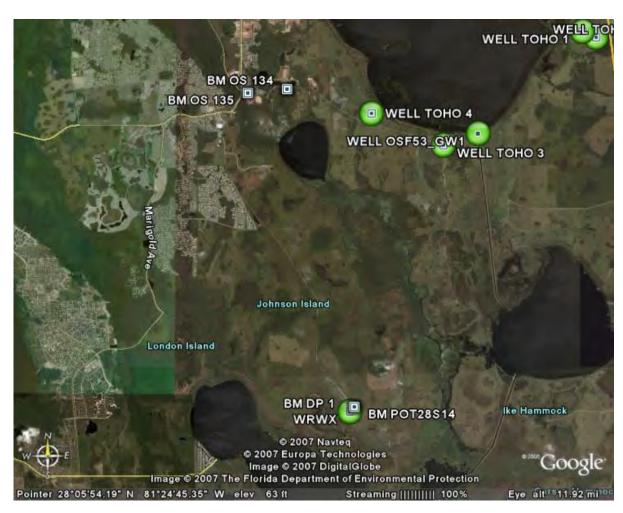
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PURPOSE

This survey was done to obtain elevations with respect to vertical datums NAVD 88 and NGVD 29 on the site wells and a newly established site bench mark.

LOCATION OF PROJECT

The project is located in Polk County, Florida, on the grounds of the Disney Wilderness Preserve (Walker Ranch).



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. Surveyors Report.
- 6. South Florida Water Management District Benchmark Data Sheet.

DATUM FOR THE PROJECT

The vertical datums for the project are the North American Vertical Datum of 1988 (NAVD 88) and the National Geodetic Vertical Datum of 1929 (NGVD 29). National Geodetic Survey (NGS) vertical control monuments having published NAVD 88 elevations were used as control for obtaining NAVD 88 elevations at this site. No NGVD 29 elevations were available for the control monuments employed. Elevations with respect to NGVD 29 were computed by applying the estimated datum offset computed by NGS' program VERTCON version 2.0 (computed for the latitude and longitude at the site of bench mark WRWX) to each of the measured NAVD 88 elevations. The VERTCON-modeled datum shift is -1.112 feet, with the sense of the algebraic sign being NAVD 88 elevation minus NGVD 29 elevation.

LEVELING METHODS

Differences in elevation were measured using a Leica NA 3003 digital level. NGS bench marks OS 134 (NGS PID 6743) and OS 135 (NGS PID DF6750) were used to control elevation determination. Leveling was done between OS 134 and OS 135 to check the two bench marks and their published elevations. The misclosure for the section between the them was 0.003 feet, which did not exceed the maximum allowable misclosure of 0.031 feet (computed as 0.03 feet times the square root of the section length in miles). A level run from bench mark OS 135 to new site bench mark WRWX and back to OS 135 (with several turning points being common to both directions of running) was done to obtain the elevation of WRWX. The misclosure of each section of leveling (between the aforementioned consecutive common turning points of the run) was in each case less than the corresponding maximum allowable error of closure.

Elevations of the wells on site were subsequently obtained by differential leveling from WRWX.

VERTICAL CONTROL

BM OS 134	Elevation:	NAVD 1988	70.649'	NGVD 1929	
PID DF6743	Latitude	28 09 18		Not published	
State/County FL/OSCEOLA	Longitude	081 25 23			
USGS QUAD LAKE TOHOPEKALIGA					
Vert. Order SECOND CLASS I		Described by FL I	Dept of Env	Pro 2001 (JLM) the	e mark



Described by FL Dept of Env Pro 2001 (JLM) the mark is about 12.25 mi southwest of Kissimmee, in Section 8, Township 27 South, Range East.

To reach the mark from the junction of U.S. Highway 192 (Vine Street) and U.S. Highway 17, 92 (John Young Parkway) in Kissimmee, go south on U.S. Highway 17, 92 for 3.5 mi to the junction of Pleasant Hill Road (County Road 531) on the left, turn left on Pleasant Hill Road (County Road 531) and go south for 7.55 mi to the junction of Southport Road on the left, turn left on Southport Road and go east for 1.2 mi to the mark on the right, set in the top of a round concrete monument recessed 0.6 ft below the level of the ground and the level of Southport Road.

Located 265.0 ft west of the approximate centerline of Hurt road, 22.5 ft south of the centerline of Southport road, 1.2 ft north of a SFWMD metal witness post, 1.0 ft west of a barbwire fence leading south and 0.9 ft north of a barbwire fence.

VERTICAL CONTROL (Cont.)

BM OS 135	Elevation:	NAVD 1988	64.744'	NGVD 1929	
PID DF6750	Latitude	28 09 14		Not published	
State/County FL/OSCEOLA	Longitude	81 26 15			
USGS QUAD LAKE TOHOPEKALIGA					
Vant Onder CECOND					

Vert. Order SECOND CLASS I



Described by FL Dept of Env Pro 2001 (JLM) the mark is about 10.0 mi southwest of Kissimmee, in Section 8, Township 27 South, Range 29 East.

To reach the mark from the junction of U.S. Highway 192 (Vine Street) and U.S. Highway 17, 92 (John Young Parkway) in Kissimmee, go south on U.S. Highway 17, 92 for 3.5 mi to the junction of Pleasant Hill Road (County Road 531) on the left, turn left on Pleasant Hill Road (County Road 531) and go south for 7.55 mi to the junction of Southport Road on the left, turn left on Southport Road and go east for 0.1 mi to the mark on the left, a disk set on top of a rod driven into the ground encased in a 6-inch PVC pipe flush with the ground and level with Southport Road, the disk is recessed 1.0 ft below the top of the PVC pipe.

Located 33.0 ft north of the centerline of Southport Road, 14.5 ft east of power pole number 6-38430, 6.0 ft south-southwest of power pole number K 6086733 with 4 guy wires attached and 1.1 ft south of a SFWMD metal witness post.

Note access to the disk is had through a 5-inch screw cap.

PROJECT RESULTS

Wells appear in the table below in order of their placement on site, going north from the southerlymost well.

e southerlymost well.					
Well HMW1	Distance to water				
Reference mark: Set new mark on top rim of PVC tee pipe fitting; reference mark is between two notches filed into the rim Set and stamped brass tag with the	Reference mark: Same as reference mark noted left El. 70.06' (NGVD 29) Measurement to water: 12.75' Date: 5/9/07				
following information: Mark El. 70.06' (NGVD 29) Initials: K AND S Date: 5/9/07 Offset: -1.112' (to NAVD 88) (written with marker and not stamped)	Water Elevation: 57.3'				
Reference mark elevations written at the site: 70.22' Reference mark location: Uncertain (markings are faded; appears to be the inside shoulder of the fitting's bell)					
Well SMW2	Distance to water				
Reference mark: Set new mark on top rim of PVC "tee" pipe fitting; reference mark is between two notches filed into the rim	Reference mark: Same as reference mark noted left El. 69.70' (NGVD 29) Measurement to water: 8.92'				
Set and stamped brass tag with the following information: Mark El. 69.70' (NGVD 29) Initials: K AND S Date: 5/9/07 Offset: -1.112' (to NAVD 88) (written with marker and not stamped)	Date: <u>5/9/07</u> Water Elevation: <u>60.8'</u>				
Reference mark elevations written at the site: 69.53' Reference mark location: Inside shoulder of the fitting's bell					

PROJECT RESULTS

Well SMW1	Distance to water
Reference mark: Set new mark on top rim of PVC "tee" pipe fitting; reference mark is between two notches filed into the rim Set and stamped brass tag with the following information: Mark El. 69.65' (NGVD 29) Initials: K AND S Date: 5/9/07 Offset: -1.112' (to NAVD 88) (written with marker and not stamped) Reference mark elevations written at the site: 69.44' Reference mark location: Inside shoulder of the fitting's bell	Reference mark: Same as reference mark noted left El. 69.65' (NGVD 29) Measurement to water: 12.58' Date: 5/9/07 Water Elevation: 57.1'
Well FMW1 Reference mark: Set new mark on top rim of PVC "tee" pipe fitting; reference mark is between two notches filed into the rim Set and stamped brass tag with the following information: Mark El. 69.43' (NGVD 29) Initials: KAND S Date: 5/9/07 Offset: -1.112' (to NAVD 88) (written with marker and not stamped) Reference mark elevations written at the site: 68.75' Reference mark location: Uncertain (markings are faded; appears to be the inside shoulder of the fitting's bell)	Reference mark: Same as reference mark noted left El. 69.43' (NGVD 29) Measurement to water: 13.17' Date: 5/9/07 Water Elevation: 56.3'



05/09/07 Keith and Schnars, P.A.

HWM1 well and tag



05/09/07 Keith and Schnars, P.A.

SWM2 well and tag



05/09/07 Keith and Schnars, P.A.

SWM1 well and tag



05/09/07 Keith and Schnars, P.A.

FWM1 well and tag

COMMENTS:

Party Chief: <u>T. Corbett</u> Field Book: <u>SFWMD 10</u> Pages <u>4–42</u> Bench Mark: WRWX El. <u>64.87'</u>, Vertical Datum: <u>NAVD 88</u>

El. <u>65.98'</u>, Vertical Datum: <u>NGVD 29</u>

Offset: 1.112 SFWMD VALUE (subtract this value from NGVD 29 to convert to

NAVD 1988)

NAVD 88 — North American Vertical Datum of 1988 NGVD 29 — National Geodetic Vertical Datum of 1929

NAD 83 — North American Datum of 1983

NGS — National Geodetic Survey

PID — Unique point identifier in NGS database

SFWMD — South Florida Water Management District

PVC — Polyvinyl Chloride

SURVEYORS 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

	By:
Date of Survey	Loren J. Gibson, PSM
May 9, 2007	Professional Surveyor and Mapper
•	State of Florida
	Certificate No. 6510

LAVD 88	SOUTH FLA. WATER. MAN. DISTRICT. BENCH LOOP WRINX	15.01-07 "AFRICA HOT" SFULMED 10 /
57A 05 134	(+) BACK HI (-) FORWARD EL BMEL = 70.65'	Alum. Disc SET IN TOP OF COUC. MON. STAMPED. BM OS. 134 1981 STWMD ELEVATION IN NAVO 88
ገ ዮ ነ	= 12.5551 = 3.9761 = 71.3776	SET GOD NAIL
	+ 5.4646 = 76.8422 - 4.6440	
79 1	+ 1.3192'	SET GOD NAIL
7P 3	- 3.1156 -	
	- 3,6806'	
TP \$	- <u>5.1900'</u>	
79 5	+ f.0236' = -5.4620'	
	- 4.4 (e/e 8'	
TP 6	+4.6906	vi n
JP 1	-4.6660	The same of the sa

.88	So.	FLA WATER MAN.	DIST.		TC. TB. AFRICA HOT"	SFWMD 10/06
		WRWX				
ATE	(+)	41 (-)	<i>ڪِ</i> ن ۽ ٻي	BMEL	Remark's Set 60d Navl	
14	1 3.9153'				DET WE STANK	
A15	: -	- 6. 36 76	= 64, 7481	Cd. 744	"CONTROL POINT" 05-135 NAVD 88	" So.F.A. WATER MAN. D.ST. 1981 05-135 8m."
	+ 5.6239					
TP16		-3,9724	Z		SET 60 d. NAI	
	+ 5.5130'					
TP-17		- 5,1502	7	.	Ser Wood Hurs	
	+ 5.5489'					V 4.
TP 18	<u>-</u>	-40633			602 Wall	e s com a com angles
	+ 4, 7907'					
TP 19		-6,1805	<u> </u>	 	GOD Nail.	
	- 4. 5158					
TP 20		- 5.6.151			Mah Nail SET IN CONC. S/W	
	+4.2125					
1P21	<u> </u>	- 4.9713				

LLAND 88	S ₀ .	FLA. WATER MAN DIST.	• • • • • • • • • • • • • • • • • • •	05-02-07		SEWMD 10/08
-		WRWX				
5TA 28	· 4.8072'	#I (-) EL	BMEC	Rema 60 d	rēks.	
TP 29	+ 4.5439	- 4.7733'		601		
JP 30	<u></u>	- 4.3008		601		
7P 31	+ 5.2218'	- 4.7947'		SET M	14 Nall @ Entrance = 400 Nort	E FOR NEW DIMENSION HIS H OF PRESERVE ENTRANCE.
TP 32	+ 5 0169	<u>- 4. 3298 '</u>		60 d		
TP 33	<u>G.9490'</u>	- <u>6.8469</u>		ENTERING.	PRESERVE.	
	+ 4 5955	- 4.5019'	ı			
TP 34	+ 9.0109	10.121	<u> </u>	401		
P 35	e de la companya de	-4.8173'		Ser K 15 1	R+C	

05-02-07

05-02-07 TC. TB. Srwm1) 10/10 NAVO 88 So, FLA WATER MAN. DIST, WRWX REMARKS 5TA 42 60 d. 4. 7532' 1.9001 K.S IR+C. 609 60 d 600 God.

89° LIGHT WIND

HOT & GEHING HOHER. SFWMD10/11 05-02-07 So. FLA WATER MAN, DIST. NAVO 88 TC. T8. WRWX Romarks 5TA 49 60 d NAIL. + 4.8342 -5.2997 60d. 60 d GOd. (SET IN & DIRT ROAD) 52 60d. leOd. 54 K&S IR+C.

89°

N4VD 88	So, FLA. WATER MAN DIST. WRWX		05-02-07 TC. TB,	STUMD 10/10
	WKWX			
STA 56	(+) HI (-) EL	BMEL.	GOD ROMARKS	
<i>5</i> 7	- 4.6577		608	
58	+4.760le'	:	601	
	+ 5.3662' - 4.6360'	: :	1	nia :
59	± 4,7517'		601	
. 60	- <u>5.1265'</u> .4.2244'		601 · · · · · · · · · · · · · · · · · · ·	
61	- 4. 7488'		60 d	
	£5.0160' -4.6612'			
62	+4.2923'			
<u> </u>	-4.6934			

A10 55	So. FLA WATER MAN. D WRWX	∤चा .			
:STA 70	(+) HI (-)	EL BMEL	60 d HAIL.	•	ering of the second of the sec
7/	-1.4450		wood Hus.	6.1 2	
	+ 5.0097				
72	-4.4814'		60 d) ;
73	+ f. 9794' - f. 8288'		60 d.		
	1. <u>6. 0013'</u>				
74	-4.2711		WOOD HUB.	S Sa S	
	= 5.2310'		ulooo HUB.		•
75	+ 3.8 + 26'				the second second
74	-9.1131	-	601		
- 11	+ 4.3239 - +.0809'		609	10 <u>955 (</u> x <u>.</u>)	

05-08-07

SFWMD 10/H

NAVO 88	So. FLA. WATER MAN. DOT.	105-02-07 105-03-07 7C.TB.	Stumb 10/15
	WRWX.		
STA 17	(+) HI (-) EL 5MEC	God HAIL	1
	<u>+ 6,3340</u>		
78	<u>- 6.2193°</u>	600 (BATT. DEAD) RETURN TO HOTE	EL 1780 HRS.
	± 5.2934°		And American
40	- 3.0671	relood HUB.	·
19	4 9.1529		e de la companya de La companya de la co
	-5.3510'	60 d.	e e e e e e e e e e e e e e e e e e e
80	t a cult	e de la companya de La companya de la co	
	+ f. 9614' - 1. 7036'		
81	= 1.10 = =	601	
	· 5.6640 ·		
81	- <u>3.9852'</u>	608.	
	+ 9.0692'		
	<u>- 4.7891'</u>	W000 Hug.	
85	42143'		
	-5.5121'		
84		I L MOOD HUD.	

980 val	So. FLA. WATER MAN. D. ST WRWX	05-03-07 TC. TB.
STA 84	(+) HI (-) EL BMEL	NEMARKS WOOD HUB
85	<u>- 9.3510</u> <u>- 9.3438'</u>	KYS TR+C.
<i>8</i> 6	-4.6682'	60 d.
2 7	+ <u>4.3738</u> - <u>4.1100'</u>	Lood Lun.
68 68	+4.7590 -4.6182' -2	601
89	+ <u>4.8820</u> - <u>f.le 461'</u>	Whood Hus.
90	- <u>9</u> 13600	6 0 €
91	+ 4. 7793' = -4.3449' =	

Navo 88	S. 1	LA, WOTER MAN. D WRWX	.5T.	69-03-07	SHWMD 10/18
\$t A 98	(+) + 4.53104'	HJ (~)	EL BMEL	Remarks. 60d Nail	
99	+4.7738'	- 4.2360'		601.	
100	+1.1120 =	= 5.1420'		Wood Hurs.	
101	+ 1.7480' =	<u>-4.4019</u> =	,	wood Aug.	<u> </u>
102	# 4.1570'	-4.1238'		Ky 5 IR & C	1150 to 1150 t
103	+ 4. 6466	- 1 .2323'		Wood Was.	<u> </u>
101	4.2.128'	- f.1280'		Wood Hus,	. T
	<u>- 9.1883'</u>	-4,3610		1.02	The second secon
100		<u></u>			

TC. TB. REMARKS: 60 d NAIL. 60d Na.1 602 60 d. IRON ROD & COP Ky'S. 60d

SFWMD 10/21

Navo 88	So. FLA. WATER MAM. D. ST.	05-03-07 / 05-01-07 - AM WEATHER 79° 15-20 MPH WIND" 10/22 TC18. TC.TB.	
	me R well x		
STA 126	+ 4.8001 = + 4.8001	REMARKS KIS IR + C	
121	= (64.686) comp-	Alum Disc "SFWIMD BM DW-1 2002.	
128	- 4.6788 = 64.8104 UU ADJ	BRASS DISC SET IN CONC 1' ROUND fo" DEEP WIS TRONG ROD INSIDE "SFWMD WRWX 2007" 50,358.9 USFT. SEE PL 38 FOR ADJUSTMENT.	
129	- <u>1.5336'</u> =	IR+C	
150	+ <u>9.1823'</u> - <u>4.3874'</u>	601	
131	+ 1.3618'	Jaloop V13.	
132	+ <u>4.8263</u> = - <u>4.5587</u> =	KiB IR+C	
133	+3.5090'		

609 le08

Romarks 40 d Nail. 60d. 60 d. 60d. 60 d.

"79" VERY WILLDY

REMARKS 60 d. 60d.

60 d Nail. Kis IR+C.

HUARICANE WILMA WILDY" TC.TB. REMARKS WOOD HURS 60 d.

SFWMD 10/15

Kis IR-C.

05-07-07 TC.TB.

REMARKS Wood HUB: 60d. 600 606. 60d

80° & Intimorf. SFWMD10/de

ODD HVB.

od /

o.d.

606-

608

201

60d. 60d. 60d. 400

SEWMD 10

NAVD 88	So. FLA WATER MAN. DIST.		15-07-07 TC. TB.		SFWMT7 10/28
37A 108	(+) HI (-) =	EL BIMEL	REMIRKS Wood Huis		
169	- 4.1549 ' - 43.9065 '		Lod		i de la companya de La companya de la co
170	-4.4835°		Kis IR+C	•	
	+ 5.1020'		WOOD HUB.		
172	-3.9163' -4.4677'		Wood Hub.	03827 ·	
173	-4.7483		601	S ₂	
int	+ 3.8452' - 5.4236'		_ Ce0d.		
115	+4.5434'		<u>(46</u> -2		

Navo 88	So. FLA	WATER MAN, DIST.		05-07-07 TC. TB,	ED F HUMBY.	Sfw1	MD 10/30
STA 182	(+) + 48934	η _± (-)	BMEL	Romanus 60 d.		<u> </u>	11 11
183		-5.0434 ==		١١ ١٥٥ كمل			en e
184	+ 4.3693'	- <u>4.8971'</u>		Wood Huo.			
185	+ 4.4743'	-3,4506'		601.		A Transfer	
780	7.4.8801	-4.9797		40 4.			
187	+ 4.7238'	- <u>4.3433'</u>		W. Hos.	BAR DIED	1659 HRS	
188	+ 14200 1/3/01	-4.2181		60d.	en e	. District	
187	+ 4.1062	=4.7905		18 Jood Hug			

AVD 88	So. FLA. WATER MAN. DIST.	05-08-07 7C. 78.	en e	SEWMD 10	131
51A 189	(+) HI (-) EL	BMEL REMARKS WOOD AVB			
190	- <u>6.3255</u>	Ki5 IR	2 + C.		
191	+ 4.89.38' - 4.1038' =	Lod (& DIRT ROAD)	. A Porte l	
192	+5.1605' - <u>5.2586'</u>	60 d.	· · · · · · · · · · · · · · · · · · ·		
193	<u>4.8359'</u> -4.4309'	40 d.		The second secon	
194	+ 1.6893' = -5.0419'	601.			
	+ f.82u8' -4.3090'	40d			e i et et en
195	+ 4.0062' = +.10905'				
196		leod			

HAVD 88	So, FLA. WATER MAN. T	Sist.	05-08-07 TC. 78.	SFWMD 10 /32
	urux			
57 A 196	(+) - 11 (-)	BMEL	Remireks God NaiL	
197	- <u>5.0334</u>		60d.	
198	1306' = -4.5768'		60 d.	. <u> </u>
129	5970' - - - - - - - - - - - - - - - - - - -		Lood.	
200	7906' - f.16753'		KiS IR+C.	
+ #	7183' -4.7638'			
201 +£	6303'		60 d.	
DDI.	- <u>4.8.578'</u>		60 d	
+4. 263	3763° -4,7663°		tood (& DIRT ROAD)	

Remarks GOD NAIL (& DIRT ROAD) 60 d. 60d. 60 d. 606 608. leod.

STWMD 10/33

MAVD 88	Sol	FLA. Labara Lel Ri	er Man. Do		-08-07 7C. TB.	Application of the second of t	Kijakati (Stumb	134
Sta Zio	4.7844	4hz	(-)	ELINES BMEL	Connecks 60 d D	a.L.	\$40 J		
Z11	+4.5220'	,	<u>4.6133°</u>		Kis I	R+C.			9
ZIZ	z f.3946'		<u>- 4.5734 · </u>		60 d				
213	Jana,		<u>- 14345 '</u> =		leod.				
214	+ 9.8621 =		- 5.1793'		408		1		e e e e e e e e e e e e e e e e e e e
215	+4.83+3°		1.0957		n. 6000	Hors.			en e
2+6	F5/10/		4.5548		408.	1.60 (1.20 °C) 1.00 (1.20 °C) 2.00 (1.20 °C)		**************************************	
217	<u>+ 5.2919'</u> =		-3.0314 -		401			v a £t	e de la companya de l

Mayo 88	So. FLA. WATER MAN. DIST.	05-08-07 7C.7B. SFWMD 10
51A 217	(+) HI (-) EL 13MEL + 5.8357'	Romarks 60d NAIL.
218	- <u>5.4365'</u>	40 d
219	- <u>5.1538'</u>	601
270	<u>+4.9560'</u> - <u>5.0613'</u> =	Kis IRIC
221	<u>+ 4.9177</u> <u>- 5.1757'</u>	60d.
	- 4.7295'	
72 1	+6.22.71·	Leod.
723	-4.3813' - 4.4148'	60d.
22.4	-50514'	Hat Had

NAVD 88	So. FLA. W	ATER MAN. DIST.		05-08-07 TC.TB.	SFWMD	10/34
÷	Vel	RWX	7			
31 n	(+) HI + 4.8578'	(-) Enter the moment		rial elast.		The second secon
राष		- <u>5.3219'</u>	HATTING TO THE STREET	60 d.	•	
	+ 4.42/7'	<u>- 1.6193'</u>			.2.49	で、東京都市政党が大
22 le	+ <i>f.7129'</i>			leod	··· · · · · · · · · · · · · · · · · ·	
727	1 - n o . 1	<u>- f.1511-'</u>		COd,	en en Sala	·
228	± <u>5.0390'</u> =	-48492'		60d.		
	+4.6226	<u>4.8171</u>			88 <u>12.</u>	
2 79	+ 4.9051'	e		60d		***
230		<u>-4.3146'</u> =		Mah alail		
7.31	±3.18 05 '	-4.01210		604 F0		

TC. TB. REMARKS WOOD HURS. 60 d NAIL. CONTROL PT. 05-135 NAVO 88 "SO. FLA. WATER MAN. DIST. 1981

RUN = 94988.3 USFT AllOWABLE ERR .1272 (S.F.W.M.D. .03) ERROR ON RUN . 1255

30-135 Bm"

SFWMD 10,

:1255 7. 240 = .000 5229 ADJ FACTOR

SFWMO BRASS DISC "WRWX" (TP 128) 128 x ,0005229 = ,067 AD1 TP128 UNAD) = 64.8104 TP128 ADj = 64.877

```
WRWX
                     WIELL SITE ELEV.
                                                                   KEWARIS.
                              (-3
                     11 1
                                                3meu
                                       EL
 STA
                                               64.877 S.F.W. M.D. SURVEY DISC STAMPED WIRWX 2007 "ADJ EL"
BM "WRWX"
        7 5.425
       M 5.215'
        8 5,005
        A 5.215
                  = 70.092
                                                           HAINTHORN
                                                                         WEST RIM SEE DETAIL NEXT PL
PIPE (SOUTH) "HMWL"
                           - 1.14'
                                      68.952'
                                                           SHAL. SOUTH
7.7€
                           - 1.50'
                                      48.592
         "5MW2"
                                                           SHAI NORTH
PiPE
                                     68.542
                           -1.55
          "SMWI"
                                                           4" FLOR.
                                     48.327
PIPE (NORTH) "FMWI"
                           -1.765'
                           7 2.675'
                           M 2.501
                           8 2.33
                           A 2.502'
                                     = 67.57
        7 2.88
        A 2.108
        8 2.53°
        A 2.707'
                  = 70,297'
                           r 5.63'
                           A 5.42'
                           0 5.205
                           A 5.418'
BM"WRWX"
                                                           S.F.W.M.D. BRASS DISC "WRWX"
                                             005 Allow ABIE EN
```

SO. FLA. WATER MAN. DIST.

05-02-07

TC. TB.

SEWMD 10/

Jal R Jal X

4" FLORIDAN 88 = 68,327 DTW 12' 9"

SHALLOW (NORTH) 88 = 68.542' DIE 18' 11"

SHAllow (SOUTH) 88 = 68.592 DTW 12' 7"

HAWTHORN 88 = 68,952" DTW 13' 2"

ALL PREVIOUS INFO ON WELL ELEV. WERE NOT FROM
TOP OF PIPE. THEY WERE FROM INSIDE THE PVC. "T"

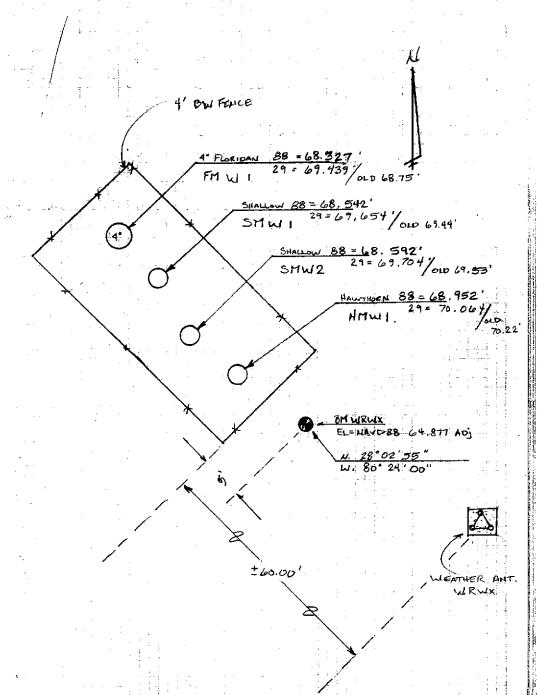
LAT/LONG. = 28° 02' 55"/ 80' 21' 00" = BM "WRWX"

TOP OF FIFE DETAIL W/ CAP REMOVED.



TOP OF PIPE NOTCHED & ELEVATED, ALSO COLORED BLACK WY PERM MARKER

PER. M.KE MOSSEY @ KYS FC LAUD.



PICTURE INDEX

- PICTURES STORED IN OFFICE SONY CYTSER SHOT

Pic#	Rew	IARK.	<u> </u>		
) -	BM	05 135		•	
15	BM	05 134			
16	SO. FLA. WA	HER MAN. T	DIST BRASS DIS	c WRWX"	·
17	WELL STA	TION !	COOKING HORT		
18	16		LOOKING EAST		
19		" L	OOKING Wes	r :	
20	**	h	LOOKING SOUT	H :	
21	S.F.W.M.D.	Alum Dsc	STAMPED DW	-1 2002	
<i>3</i> 1, <i>3</i> 8,39,52	HMMI	-			-
10,41,42,51	SMW 2		-		
43, 44, 45, 50	I WIME.			· —	
46, 47, 48,49	FMWT	•			

ROUTE DIRECTIONS.

FROM THE INTER SEC. OF PLEASENT HILL & SOUTHBAT BY
GO S.W. FOR SO TO OLD PLEASANT HILL, MAKE LEFT
TAKE OLD PLEASANT HILL FOR LOO MI TO THE DISNEY
PRESERVE MAIN GATE (SCRUB JAY TRAIL). MAKE LEFT
TAKE SCRUB JAY TRAIL, 40 MI TO 15T DIRT ROAD ON
RICHT. THEN GO SOUTH < .05 MI TO LOCKED GATE
(S.F.W.M.D. "L" KEY NEEDED) PASS THROUGH GATE &
CO SOUTH ON DIRT ROAD FOR 6.45 MI STATION IS ON
THE RICHT ± 250' WEST OF & DIRT BOAD.

4 WELL STAND PIPES ARE LOCATED WHILL A 4' BABBWIRE FENCE, ± 65' NORTH OF WEATHER STATION
"WE RWX" 28° 02' 55" 80° 24" 00" ± 14' ACC.

05-09-07 TC, TB. SFWMD 10/42





























































WRWX.Ist

STAR*NET-PRO Version 6.0.33 Copyright 1988-2005 Starplus Software, Inc. Licensed for Use by Keith and Schnars, P.A. Run Date: Thu May 31 2007 13:49:18

Summary of Files Used and Option Settings

Project Folder and Data Files

Project Name Project Folder Data File List WRWX

L: \PROJECTS\...\DI GI TAL LEVEL\STARNET\NAVD88

1. WRWX.dat

2. WRWX edited.dat

Project Option Settings

STAR*NET Run Mode : Adjust Only

Type of Adjustment : Lev
Project Units : FeetUS
Input/Output Coordinate Order : North-East

Create Coordinate File : Yes

Instrument Standard Error Settings

Project Default Instrument

Differential Levels : 0.009000 FeetUS / Mile

Summary of Unadjusted Input Observations

Number of Entered Stations (FeetUS) = 1

Fixed Stations Elev Description

0S135 64. 7440

2

Number of Differential Level Observations (FeetUS) = 27

From OS135 MAG1 MAG2 MAG3 I RC1 I RC2 I RC3 I RC4 I RC5 I RC6 I RC7 I RC8 I RC9 DW1 WRWX I RC9 I RC8 I RC7 I RC8 I RC9 I RC8 I RC7 I RC8 I RC9 I RC8 I RC9 I RC8 I RC9 I RC8 I RC7 I RC8	To MAG1 MAG2 MAG3 I RC1 I RC2 I RC3 I RC4 I RC5 I RC6 I RC7 I RC8 I RC9 DW1 WRWX I RC9 I RC8 I RC7 I RC8 I RC9 I RC8 I RC9 I RC8 I RC9 I RC8 I RC7 I RC8 I RC9	El ev Di ff 1. 0102 0. 3286 0. 1093 1. 0784 -2. 6409 0. 4952 -1. 1640 1. 6673 -0. 1860 0. 4259 -0. 2934 -0. 4909 -0. 4023 0. 1248 0. 2810 0. 4760 0. 2667 -0. 4467 0. 1695 -1. 6800 1. 1666 -0. 5033	StdErr 0. 0052 0. 0056 0. 0061 0. 0049 0. 0075 0. 0083 0. 0079 0. 0111 0. 0102 0. 0071 0. 0090 0. 0043 0. 0010 0. 0012 0. 0014 0. 0043 0. 0090 0. 0070 0. 0102 0. 0111 0. 0079 0. 0079	Length 1755 2029 2390 1581 3631 4447 4058 8066 6830 3242 5267 1208 60 101 126 1211 5267 3239 6827 8067 4061 4449
I RC5	I RC4	-1. 6800	0. 0111	8067
φ	33.33	3007	0.00 5	

Adjustment Statistical Summary

WRWX.Ist

Number of Stations	=	15
Number of Observations	=	27
Number of Unknowns	=	14
Number of Redundant Obs	=	13

Observati on	Count	Sum Squares of StdRes	Error Factor
Level Data	27	29. 032	1. 494
Total	27	29. 032	1. 494

Warning: The Chi-Square Test at 5.00% Level Exceeded Upper Bound Lower/Upper Bounds (0.621/1.379)

Adjusted Station Information

Coordinate Changes from Entered Provisionals (FeetUS)

Stati on	d7
0S135	0. 0000

우

Adjusted Elevations (FeetUS)

Station OS135 MAG1 MAG2 MAG3 IRC1 IRC2	EI ev 64. 7440 65. 7494 66. 0846 66. 1993 67. 2808 64. 6477	Description
I RC2 I RC3	64. 6477 65. 1469	
I RC4 I RC5	63. 9817 65. 6553	
I RC6 I RC7	65. 4776 65. 9139	
I RC8 I RC9	65. 6338 65. 1503	
DW1	64. 7473	
WRWX	64. 8709	

Adjusted Observations and Residuals

Adjusted Differential Level Observations (FeetUS)

From	То	Elev Diff	Resi dual	StdErr	
0S135	MAG1	1. 0054	-0. 0048	0. 0052	0. 9
MAG1	MAG2	0. 3352	0. 0066	0. 0056	1. 2
MAG2	MAG3	0. 1147	0.0054	0.0061	0. 9
MAG3	I RC1	1. 0814	0.0030	0.0049	0.6
			0.0078	0.0075	1. 0
		0. 4992	0.0040	0.0083	0. 5
				0.0079	0. 2
					0. 6
					0.8
					1. 5
				0.0090	1. 5
		-0. 4835	0.0074	0.0043	1. 7
I RC9	DW1	-0. 4030	-0. 0007	0.0010	0.8
DW1	WRWX	0. 1236	-0. 0012	0.0012	1. 0
WRWX	I RC9	0. 2795	-0. 0015	0.0014	1. 1
I RC9	I RC8	0. 4835	0.0075	0.0043	1. 7
	I RC7	0. 2801	0.0134	0.0090	1. 5
		-0. 4363	0. 0104	0.0070	1. 5
		0. 1777	0.0082	0.0102	0.8
	I RC4	-1. 6736	0.0064	0. 0111	0.6
			-0. 0013		0. 2
I RC1 I RC2 I RC3 I RC4 I RC5 I RC6 I RC7 I RC8 I RC9 DW1	I RC2 I RC3 I RC4 I RC5 I RC6 I RC7 I RC8 I RC9 DW1 WRWX I RC9	-2. 6331 0. 4992 -1. 1653 1. 6736 -0. 1777 0. 4363 -0. 2801 -0. 4835 -0. 4030 0. 1236 0. 2795 0. 4835 0. 2801	0. 0078 0. 0040 -0. 0013 0. 0063 0. 0083 0. 0104 0. 0133 0. 0074 -0. 0007 -0. 0012 -0. 0015 0. 0075 0. 0134 0. 0104 0. 0082 0. 0064	0. 0075 0. 0083 0. 0079 0. 0111 0. 0102 0. 0071 0. 0090 0. 0043 0. 0010 0. 0012 0. 0043 0. 0090 0. 0070 0. 0070	1. 0 0. 5 0. 2 0. 6 0. 8 1. 5 1. 7 0. 8 1. 0 1. 1 1. 5 0. 8

Page 2

I RC3	I RC2	-0. 4992	0.0041	0.0083	0. 5
I RC2	I RC1	2. 6331	0.0078	0.0075	1.0
I RC1	MAG3	-1. 0814	0.0031	0.0049	0.6
MAG3	MAG2	-0. 1147	0.0054	0.0061	0. 9
MAG2	MAG1	-0. 3352	0.0066	0.0056	1. 2
MAG1	0S135	-1. 0054	-0.0047	0.0052	0. 9

Elapsed Time = 00:00:00

```
17
44
01 00000000 Top of File
01 00000006 Summary of Files Used and Option Settings
02 00000009 Project Folder and Data Files
02 00000016 Project Option Settings
02 00000024 Instrument Standard Error Settings
03 0000026 Project Default Instrument
01 00000029 Summary of Unadjusted Input Observations
02 00000032 Entered Stations
03 00000034 Fixed Elevations
03 00000037 Differential Level Observations
01 00000086 Adjusted Station Information
02 00000089 Coordinate Changes from Entered Provisionals
02 00000094 Adjusted Elevations
01 00000113 Adjusted Observations and Residuals
02 00000116 Adjusted Differential Level Observations
01 00000146 End of File
00001C54
STARPLUS
0000044
```

Field notes to StarNet station names. txt

Field book SFWMD 10, pp. 04-38

List of turning points which are common to forward and backward runs between OS 135 and VRWX

Form of each line in this list:

```
TP [fwd. TP#] = [name used in Star*Net] = TP [bkwd. TP#]
TP 20
TP 25
        = "MAG1" = TP 235
= "MAG2" = TP 230
TP 31
        = "MAG3" = TP 224
        = "IRC1" = TP
= "IRC2" = TP
= "IRC3" = TP
TP 35
                         220
TP 44
                         211
TP 55
        = "IRC4" = TP
TP 65
                         190
        = "IRC5" = TP 170
TP 85
TP 102 = "I RC6" = TP 153
TP 110 = "I RC7" = TP 145
TP 123 = "IRC8" = TP 132
TP 126 = "IRC9" = TP 129
```

16434.00.22187 Well WRWX

Misclosure checks for leveling involving B.M.'s OS 134, OS 135, and WRWX

Section

From-to station pair d.e. (ft.) length

(ft.)

1) Leveling between published NGS bench marks OS 134 and OS 135

OS134-OS135 -5.9019 5693

OS 134 (publ.) 70.649

OS 135 (observed) 64.7471 (Sum of d.e. and publ. OS 134)

OS 135 (publ.) 64.744 **Misclosure (O-A)** 0.0031

Allowable misclosure: 0.0312 Misclosure does not exceed allowable

Differences in elevation and section lengths were extracted from the Leica GSI file by Star*DNA version 4.0.5 (Starplus Software).

2) Misclosures between consecutive sections having common turning points between OS 135 and WRWX

OS135-MAG1 1.0102 1755 MAG1-OS135 -1.0007 1754

Partial & sum of dist: 0.0095 3509 0.0095 Cumulative partial from OS 135

Allowable: 0.0245 Misclosure does not exceed allowable

MAG1-MAG2 0.3286 2029 MAG2-MAG1 -0.3418 2030

Partial & sum of dist: -0.0132 4059 -0.0037 Cumulative partial from OS 135

Allowable: 0.0263 Misclosure does not exceed allowable

MAG2-MAG3 0.1093 2390 MAG3-MAG2 -0.1201 2390

Partial & sum of dist: -0.0108 4780 -0.0145 Cumulative partial from OS 135

Allowable: 0.0285 Misclosure does not exceed allowable

MAG3-IRC1 1.0784 1581 IRC1-MAG3 -1.0845 1583

Partial & sum of dist: -0.0061 3164 -0.0206 Cumulative partial from OS 135

Allowable: 0.0232 Misclosure does not exceed allowable

IRC1-IRC2 -2.6409 3631 IRC2-IRC1 2.6253 3626

Partial & sum of dist: -0.0156 7257 -0.0362 Cumulative partial from OS 135

Allowable: 0.0352 Misclosure does not exceed allowable

IRC2-IRC3 0.4952 4447 IRC3-IRC2 -0.5033 4449

Partial & sum of dist: -0.0081 8896 -0.0443 Cumulative partial from OS 135

The value of the allowable misclosure is computed as 0.03*sqrt(M), where M is the total loop length (i.e., BM "start" to BM "end" and back to BM "start") in miles.

Allowable: 0.0389 Misclosure does not exceed allowable

IRC3-IRC4 -1.1640 4058 IRC4-IRC3 1.1666 4061

Partial & sum of dist: 0.0026 8119 -0.0417 Cumulative partial from OS 135

Allowable: 0.0372 Misclosure does not exceed allowable

IRC4-IRC5 1.6673 8066 IRC5-IRC4 -1.6800 8067

Partial & sum of dist: -0.0127 16133 -0.0544 Cumulative partial from OS 135

Allowable: 0.0524 Misclosure does not exceed allowable

IRC5-IRC6 -0.1860 6830 IRC6-IRC5 0.1695 6827

Partial & sum of dist: -0.0165 13657 -0.0709 Cumulative partial from OS 135

Allowable: 0.0482 Misclosure does not exceed allowable

IRC6-IRC7 0.4259 3242 IRC7-IRC6 -0.4467 3239

Partial & sum of dist: -0.0208 6481 -0.0917 Cumulative partial from OS 135

Allowable: 0.0332 Misclosure does not exceed allowable

IRC7-IRC8 -0.2934 5267 IRC8-IRC7 0.2667 5267

Partial & sum of dist: -0.0267 10534 -0.1184 Cumulative partial from OS 135

Allowable: 0.0424 Misclosure does not exceed allowable

IRC8-IRC9 -0.4909 1208 IRC9-IRC8 0.4760 1211

Partial & sum of dist: -0.0149 2419 -0.1333 Cumulative partial from OS 135

Allowable: 0.0203 Misclosure does not exceed allowable

 IRC9-DW1
 -0.4023
 60

 DW1-WRWX
 0.1248
 101

 WRWX-IRC9
 0.2810
 126

 Misclosure/dist. sum:
 0.0035
 287

Allowable: 0.0070 Misclosure does not exceed allowable

Total length, BM OS 135 to BM WRWX:

42618



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY Polk	PROJECT STRIVE		DESIGNATION WRWX			
SECTION 15	TOWNSHIP 28	TOWNSHIP 28 S		RANGE 29 E		
GEOGRAPHIC INDEX OF QUAD	-					
Established by Keith & Schnars, P.A. Recovered by NAME OF QUADRANGLE Lake Hatchineha						
SURVEYOR T. Corbett DATE 5	/ 9/ 2007	FIELD BOOK SFW	/MD 10	PAGE <u>4–42</u>		
HORIZONTAL DATUM: NAD 1983	3 zone East					
VERTICAL DATUM: NGVD 1929	and NAVD 19	88				
CONTROL ACCURACY: HORIZO	NTAL (N/A, auto	nomous GPS) VER	TICAL 3	rd order		
	X 527130 U.S. Survey Feet	Y 1350670 U.S. Survey	Feet	EL. NGVD 29 65.98' (VERTCON)		
				EL. NAVD 88 64.87'		
LATITUDE <u>28°02'55.8"</u>	LATITUDE <u>28°02'55.8"</u> LONGITUDE <u>-81°24'00.2"</u>					
	DESC	RIPTION				
To Reach: From the intersection of Pl	easant Hill Road a	and Southport Road in	Osceola	County, Florida, go		
southwest for 0.5 mile to the Intersection of Pleasant Hill Road with Old Pleasant Hill Road; turn left onto						
Old Pleasant Hill Road and go 0.6 mil	Old Pleasant Hill Road and go 0.6 mile to the intersection of Scrub Jay Trail with Old Pleasant Hill Road;					
turn left on Scrub Jay Trail, which is the	ne entrance to the	Disney Wilderness Pr	eserve, a	nd go 0.4 mile		
to the first dirt road going right; turn rig	ght and go south c	on the dirt road for abo	ut 0.05 mi	ile to a gate and		
continue south on the dirt road for and	other 6.5 miles to t	he station on the right	. Bench m	nark WRWX is		
approximately 250 feet west of the dirt road.						
Netable Land marks, Daneb mark WDWV is situate on the CEWMD well site designated WDWV and line about						
Notable Land marks: Bench mark WRWX is situate on the SFWMD well site designated WRWX, and lies about 5 feet southeast of the midpoint of the southeast side of a 4' tall barb wire fence surrounding the four wells at						
the WRWX site.						
THE VILLVIA SILE.						

SKETCH



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01



```
DATABASE = Sybase , PROGRAM = datasheet, VERSION = 7.42
DF6743 DESIGNATION - OS 134
DF6743 PID - DF6743
         STATE/COUNTY- FL/OSCEOLA
USGS QUAD - LAKE TOHOPEKALIGA (1987)
DF6743
 DF6743
DF6743
DF6743
                                   *CURRENT SURVEY CONTROL
 DF6743
DF6743* NAD 83(1986) - 28 09 18.
                                        (N) 081 25 23.
                                                                   (W)
                                                                            SCALED
 DF6743* NAVD 88
                                 21.534
                                                         70.65
                                         (meters)
                                                                   (feet) ADJUSTED
 DF6743
                                  -27.60
 DF6743
         GEOID HEIGHT-
                                          (meters)
                                                                           GEOID03
DF6743
         DYNAMIC HT -
                                   21.502 (meters)
                                                          70.54 (feet)
                                                                           COMP
                             979,153.7
         MODELED GRAV-
 DF6743
                                           (mgal)
                                                                           NAVD 88
 DF6743
DF6743
         VERT ORDER - SECOND CLASS I
 DF6743
 DF6743. The horizontal coordinates were scaled from a topographic map and have
 DF6743.an estimated accuracy of +/- 6 seconds.
 DF6743
 DF6743. The orthometric height was determined by differential leveling
 DF6743.and adjusted by the National Geodetic Survey in April 2004..
 DF6743
 DF6743. The geoid height was determined by GEOID03.
 DF6743
 DF6743. The dynamic height is computed by dividing the NAVD 88
 DF6743.geopotential number by the normal gravity value computed on the DF6743.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF6743.degrees latitude (g = 980.6199 \text{ gals.}).
 DF6743
 DF6743. The modeled gravity was interpolated from observed gravity values.
 DF6743
 DF6743;
                                                      Units Estimated Accuracy
                               North
                                              East
 DF6743;SPC FL E
                           423,460.
                                           158,450.
                                                          MT (+/-180 \text{ meters Scaled})
 DF6743
 DF6743
                                    SUPERSEDED SURVEY CONTROL
 DF6743
 DF6743.No superseded survey control is available for this station.
 DF6743
 DF6743 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM584144(NAD 83)
 DF6743_MARKER: DD = SURVEY DISK
DF6743_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT DF6743_STAMPING: BM OS-134 1981
 DF6743_MARK LOGO: SFLWMD
 DF6743_PROJECTION: RECESSED 15 CENTIMETERS
 DF6743_MAGNETIC: N = NO MAGNETIC MATERIAL
 DF6743_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 DF6743+STABILITY: SURFACE MOTION DF6743_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF6743+SATELLITE: SATELLITE OBSERVATIONS - July 20, 2001
 DF6743
 DF6743
         HISTORY
                       - Date
                                   Condition
                                                      Report By
 DF6743 HISTORY
                      - 1981
                                   MONUMENTED
                                                      SFLWMD
 DF6743 HISTORY
                      - 20010720 GOOD
                       - 20050202 GOOD
 DF6743
        HISTORY
 DF6743
DF6743
                                    STATION DESCRIPTION
 DF6743
DF6743'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
DF6743'THE MARK IS ABOUT 12.25 MI SOUTHWEST OF KISSIMMEE, IN SECTION 8,
DF6743'TOWNSHIP 27 SOUTH, RANGE
 DF6743'29 EAST.
 DF6743'
 DF6743'TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 192 (VINE STREET)
DF6743'AND U.S. HIGHWAY
DF6743'17, 92 (JOHN YOUNG PARKWAY) IN KISSIMMEE, GO SOUTH ON U.S. HIGHWAY 17,
DF6743'92 FOR 3.5 MI TO THE
 DF6743'JUNCTION OF PLEASANT HILL ROAD (COUNTY ROAD 531) ON THE LEFT, TURN
DF6743'LEFT ON PLEASANT HILL DF6743'ROAD (COUNTY ROAD 531) AND GO SOUTH FOR 7.55 MI TO THE JUNCTION OF
 DF6743'SOUTHPORT ROAD ON
 DF6743'THE LEFT, TURN LEFT ON SOUTHPORT ROAD AND GO EAST FOR 1.2 MI TO THE
 DF6743'MARK ON THE RIGHT
 DF6743'SET IN THE TOP OF A ROUND CONCRETE MONUMENT RECESSED 0.6 FT BELOW THE
 DF6743'LEVEL OF THE
 DF6743'GROUND AND THE LEVEL OF SOUTHPORT ROAD.
 DF6743'
 DF6743'LOCATED 265.0 FT WEST OF THE APPROXIMATE CENTERLINE OF HURT ROAD, 22.5
```

```
DF6743'FT SOUTH OF THE
DF6743'CENTERLINE OF SOUTHPORT ROAD, 1.2 FT NORTH OF A SFWMD METAL WITNESS
DF6743'POST, 1.0 FT WEST
DF6743'OF A BARBWIRE FENCE LEADING SOUTH AND 0.9 FT NORTH OF A BARBWIRE
DF6743'FENCE.
DF6743'
DF6743'
DF6743
DF6743
STATION RECOVERY (2005)
DF6743
DF6743'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005
DF6743'RECOVERED AS DESCRIBED. RECOVERY NOTE BY COONER AND ASSOCIATES, INC.
*** retrieval complete.
Elapsed Time = 00:00:00
```

```
DATABASE = Sybase , PROGRAM = datasheet, VERSION = 7.42
DF6750 DESIGNATION - OS 135
DF6750 PID - DF6750
         STATE/COUNTY- FL/OSCEOLA
USGS QUAD - LAKE TOHOPEKALIGA (1987)
DF6750
 DF6750
DF6750
DF6750
                                   *CURRENT SURVEY CONTROL
 DF6750
                                        (N) 081 26 15.
DF6750* NAD 83(1986) - 28 09 14.
                                                                  (W)
                                                                           SCALED
 DF6750* NAVD 88
                                19.734
                                                       64.74
                                        (meters)
                                                                 (feet) ADJUSTED
DF6750
                                  -27.58
 DF6750
         GEOID HEIGHT-
                                          (meters)
                                                                          GEOID03
DF6750
         DYNAMIC HT -
                                   19.705 (meters)
                                                        64.65 (feet) COMP
DF6750
         MODELED GRAV-
                           979,153.6
                                          (mgal)
                                                                          NAVD 88
 DF6750
DF6750
         VERT ORDER - SECOND CLASS I
DF6750
 DF6750. The horizontal coordinates were scaled from a topographic map and have
 DF6750.an estimated accuracy of +/- 6 seconds.
 DF6750
 DF6750. The orthometric height was determined by differential leveling
 DF6750.and adjusted by the National Geodetic Survey in April 2004..
DF6750
 DF6750. The geoid height was determined by GEOID03.
 DF6750
 DF6750. The dynamic height is computed by dividing the NAVD 88
DF6750.geopotential number by the normal gravity value computed on the DF6750.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF6750.degrees latitude (g = 980.6199 \text{ gals.}).
DF6750
 DF6750. The modeled gravity was interpolated from observed gravity values.
 DF6750
DF6750;
                                                     Units Estimated Accuracy
                              North
                                              East
 DF6750;SPC FL E
                           423,340.
                                          157,030.
                                                        MT (+/-180 \text{ meters Scaled})
 DF6750
 DF6750
                                    SUPERSEDED SURVEY CONTROL
 DF6750
 DF6750.No superseded survey control is available for this station.
 DF6750
DF6750 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM570143(NAD 83)
 DF6750_MARKER: DD = SURVEY DISK
DF6750_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+) DF6750_STAMPING: BM OS-135 1981
 DF6750_MARK LOGO: SFLWMD
 DF6750_PROJECTION: FLUSH
 DF6750_MAGNETIC: N = NO MAGNETIC MATERIAL
 DF6750 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DF6750_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR DF6750+SATELLITE: SATELLITE OBSERVATIONS - July 20, 2001
DF6750_ROD/PIPE-DEPTH: 16.5 meters
 DF6750
 DF6750
         HISTORY
                      - Date
                                   Condition
                                                     Report By
        HISTORY
                      - 1981
 DF6750
                                                     SFLWMD
                                  MONUMENTED
 DF6750
        HISTORY
                      - 20010720 GOOD
        HISTORY
                      - 20050216 GOOD
 DF6750
DF6750
DF6750
                                    STATION DESCRIPTION
DF6750
 DF6750'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
DF6750'THE MARK IS ABOUT 10.0 MI SOUTHWEST OF KISSIMMEE, IN SECTION 8, DF6750'TOWNSHIP 27 SOUTH, RANGE
 DF6750'29 EAST.
DF6750'
 DF6750'TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 192 (VINE STREET)
DF6750'AND U.S. HIGHWAY
DF6750'17, 92 (JOHN YOUNG PARKWAY) IN KISSIMMEE, GO SOUTH ON U.S. HIGHWAY 17,
DF6750'92 FOR 3.5 MI TO THE
 DF6750'JUNCTION OF PLEASANT HILL ROAD (COUNTY ROAD 531) ON THE LEFT, TURN
DF6750'LEFT ON PLEASANT HILL DF6750'ROAD (COUNTY ROAD 531) AND GO SOUTH FOR 7.55 MI TO THE JUNCTION OF
 DF6750'SOUTHPORT ROAD ON
 DF6750'THE LEFT, TURN LEFT ON SOUTHPORT ROAD AND GO EAST FOR 0.1 MI TO THE
 DF6750'MARK ON THE LEFT, A
 DF6750'DISK SET ON TOP OF A ROD DRIVEN INTO THE GROUND ENCASED IN A 6-INCH
 DF6750'PVC PIPE FLUSH WITH
 DF6750'THE GROUND AND LEVEL WITH SOUTHPORT ROAD, THE DISK IS RECESSED 1.0 FT
DF6750'BELOW THE TOP OF
DF6750'THE PVC PIPE.
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DF6750'
DF6750'LOCATED 33.0 FT NORTH OF THE CENTERLINE OF SOUTHPORT ROAD, 14.5 FT
DF6750'EAST OF POWER POLE
DF6750'NUMBER 6-38430, 6.0 FT SOUTH-SOUTHWEST OF POWER POLE NUMBER K 6086733 DF6750'WITH 4 GUY WIRES
DF6750'ATTACHED AND 1.1 FT SOUTH OF A SFWMD METAL WITNESS POST.
DF6750'
DF6750'NOTE ACCESS TO THE DISK IS HAD THROUGH A 5-INCH SCREW CAP.
DF6750'
DF6750'
DF6750'
DF6750
                                  STATION RECOVERY (2005)
DF6750
DF6750
DF6750'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005
DF6750'RECOVERED AS DESCRIBED. RECOVERY NOTE BY COONER AND ASSOCIATES, INC.
*** retrieval complete.
Elapsed Time = 00:00:00
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