



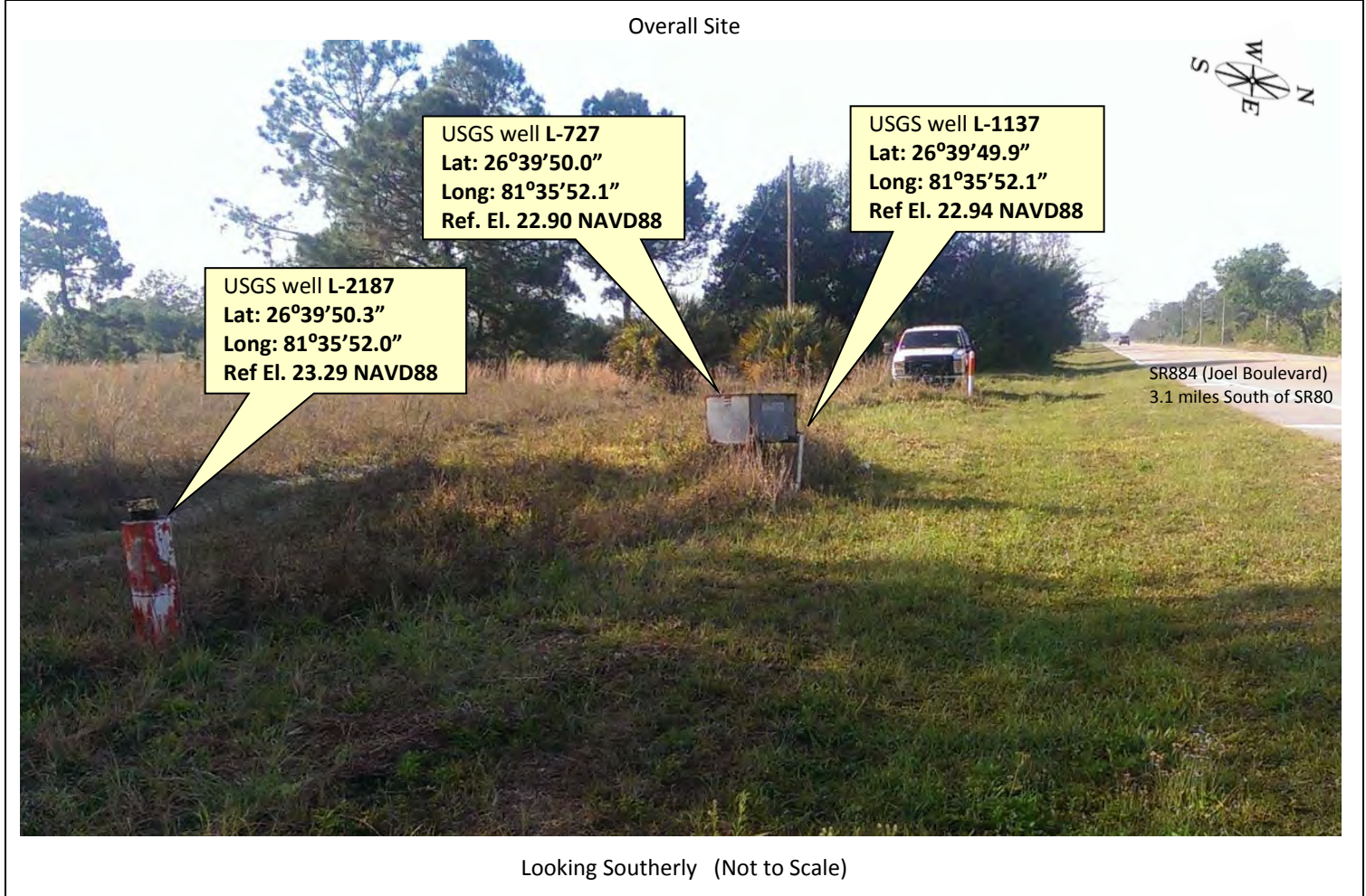
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

Site Name: L727,L1137 & L2187		Date of Field Work: 13-jun-16			
Party Chief: Hudson	Field Book: Misc 6V		Page(s) 57 - 60		
Site Benchmark: L727	Benchmark Elevation (NAVD88) 20.754	Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29) +1.240			
Reference Elevation(s) (NAVD88): L727 22.90 L1137 22.94 L2187 23.29	Existing Tag Elevation (Datum): L727 None L1137 None L2187 None	Calibration Port Elevation(s) (NAVD88): Not Applicable	Pad Elevation (NAVD88): Not Applicable	Ground Elevation (NAVD88): L727 20.9 L1137 20.8 L2187 21.0	
NAD83 Coordinate		Latitude/Longitude			
Designation	Y (Northing)	X (Easting)	Designation	Latitude	Longitude
L727	847454	460931	L727	26°39'50.0"	81°35'52.1"
L1137	847450	460932	L1137	26°39'49.9"	81°35'52.1"
L2187	847478	460936	L2187	26°39'50.3"	81°35'52.0"

Notes:
Lat- Latitude
Long - Longitude
NAVD88 - North American Vertical Datum of 1988
NGVD29 - National Geodetic Vertical Datum of 1929
NAD83 - North American Datum of 1983 (East Zone)
Corpscon 6.0.1 - A MS-Windows-based program to convert coordinates and elevations between datum's

PICTURES



L-727 Close up



USGS well L-727
Reference Point
El. 22.90 NAVD88

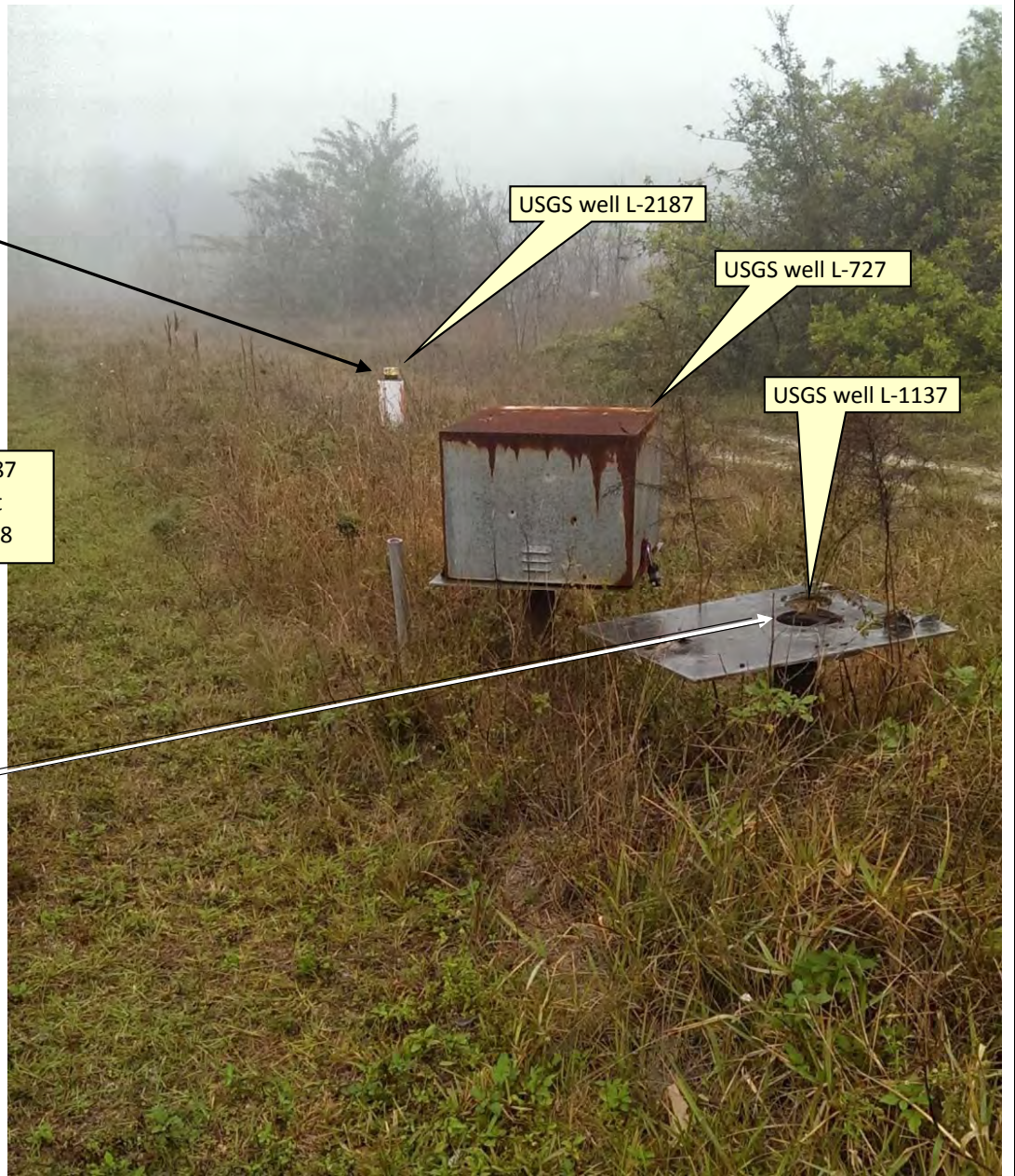
Key Contact
Keith R. Smith, P.G.
Lead Hydrogeologist
Resource Evaluation Section
South Florida Water Management
District
(561) 682-6629
ksmith@sfwmd.gov

L-1137 & L-2187 Close up



USGS well L-2187
Reference Point
El. 23.29 NAVD88

USGS well L-1137
Reference Point
El. 22.94



USGS well L-2187

USGS well L-727

USGS well L-1137

Looking Southeasterly

CONTD FR Pg. 56

BEGIN LINE CO. WELLS L-727, L-1137, L-2187

FILE: LGE
LINE: # 1

ESTAB VERT CONTROL

POINT	ELEV	Bm
1		23.72 [88]
4	21.299	
7	23.722	23.72

END LOOP

6/1/16
LINE # 2

LEVELS CONTD TO Bm AMANN 2

4		21.299
---	--	--------

RETURN LEVELS

20	22.817	
----	--------	--

33	21.277	21.299
----	--------	--------

END LEVELS TO AMANN 2

LEVELS CONTD Pg 58

Section 7 Twp. 44S., Rge. 28 E.
Sections 11&12, Twp. 44 S., Rge. 27E

N Hudson
T CLAWSON

COMMENTS
"NGS BM AMANN" RELOCATED IN GOOD COND. PER DESG.

"BM AMANN 1 SET" A SECOND ALUM CAP W/ 1/4" IR SET IN CONC. STAMPED "AMANN 1 Bm 2016" SEC 7 TWP 44 RGE 28 SEE SKETCH Pg 60

Bm AMANN ABOVE; ERROR 0.002'

N Hudson
T CLAWSON
P STEWART
P GERMARCO

Bm AMANN 1 ABOVE

"Bm AMANN 2 SET" A SECOND ALUM CAP W/ 1/4" IR SET IN CONC. STAMPED AMANN 2 2016. MARK IS IN THE PROX. E. OF 16TH ST. & HINES RD. 0.5' BEYOND END. SEE SKETCH Pg. 60

Bm AMANN 2; ERROR 0.022

Cont'd FB Pg. 57

LEVELS CONT'D TO BM AMANN 3

LINE 3
Point

20 22.819

46 21.121

RETURN LEVELS

6/14/16

59 22.810 22.819

END RETURN LEVELS

LINE # 4

LEVELS CONT'D TO BM L-727

46 21.121

71 20.745

RETURN LEVELS

83 21.125 21.121

END LEVELS

Section 7 Twp. 44S., Rge. 28 E.
Sections 11&12, Twp. 44 S., Rge. 27E

W HUDSON
T CLANSON
of BRILLIANT
of GRAMMELLO

Bm AMANN 2 Pg 57

" Bm AMANN 3 SET" A SEWED ALUM CAP W/ 1/4" E.P.P.E
SET IN CONC STAMPED "AMANN 3 Bm 2016"
MARK IS IN LINE W/ POS. E OF CANON RD; 5' S. OF S. EDGE OF
PAD & 0.5' BELOW GND. SEE SKETCH Pg. 60

Bm AMANN 2 ABOVE; ERROR 0.009'

Bm AMANN 3 ABOVE.

Bm L-727 SET A SEWED ALUM CAP W/ 1/4" E.P.P.E
SET IN CONC @ WELL SITE. Bm IS 5' E. OF E. EDGE
OF PAD, IN LINE W/ CENTER WELL (SEE SKETCH Pg. 59)
0.5' BELOW GND LEVEL STAMPED "L727 BM 2016"

Bm AMANN 3; ERROR 0.004'

WELL LOCATIONS & ELEV'S
Section 11 Twp. 44 S., Rge. 27 E.

OCCUPY L-2187 W/DKEE BASE

OCCUPY L-1137 W/DKEE ROLER

START 2:47
END 3:32
ANS. HR. 0

START 2:50
END 3:33
ANS. HR. 0



LEVELS TO WELLS L727, L2187, & L1137

BM	+	HI	-	ELL	BM
	4.84	25.59			20.75
L-2187			2.30	23.29	
L-727			2.69	22.90	
L-1137			2.65	22.94	
BM			4.84	20.75	

END LEVELS

MEAS. FROM REF EL TO GROUND FOR GROUND @ WELL

L-2187:	2.5'	GROUND EL =	20.8'
L-727:	2.0'	"	20.9'
L-1137:	1.9'	"	21.0'

OCCUPY L-727 W/DKEE BASE

START 3:34
END
ANS. HR. 0

Battery died used remaining ties to estimate location



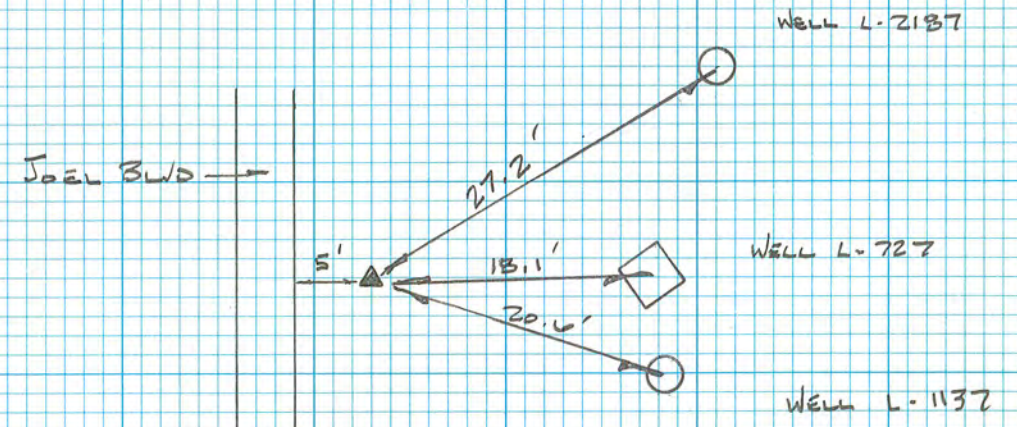
BM L727 (Pg. 58)

NOTCH CUT IN N. TOP OF 4" STEEL PIPE

TOP OF PLATFORM @ WELL OPENING

NOTCH CUT IN E. TOP OF FLANGE ON 4" STEEL PIPE

BM ABOVE

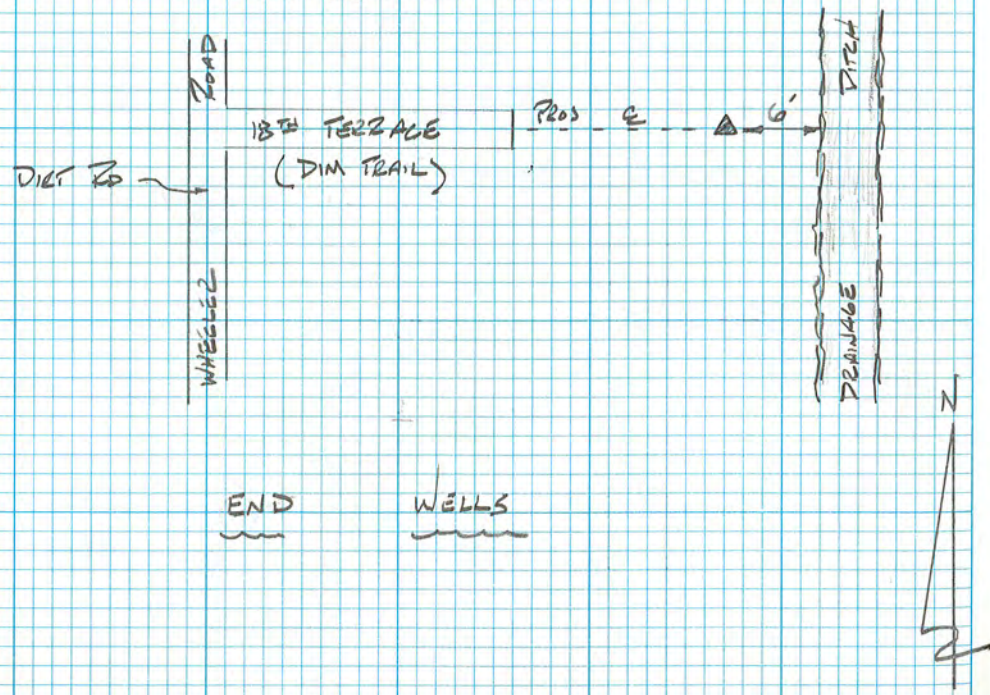


LEE CO WELLS COMTD F.R. 57
 Section 11 Twp. 44 S., Rge. 27 E.
 ESTAB. HORIZ CONTROL FOR SET Bm's
 GPS STATIC SELECTIONS

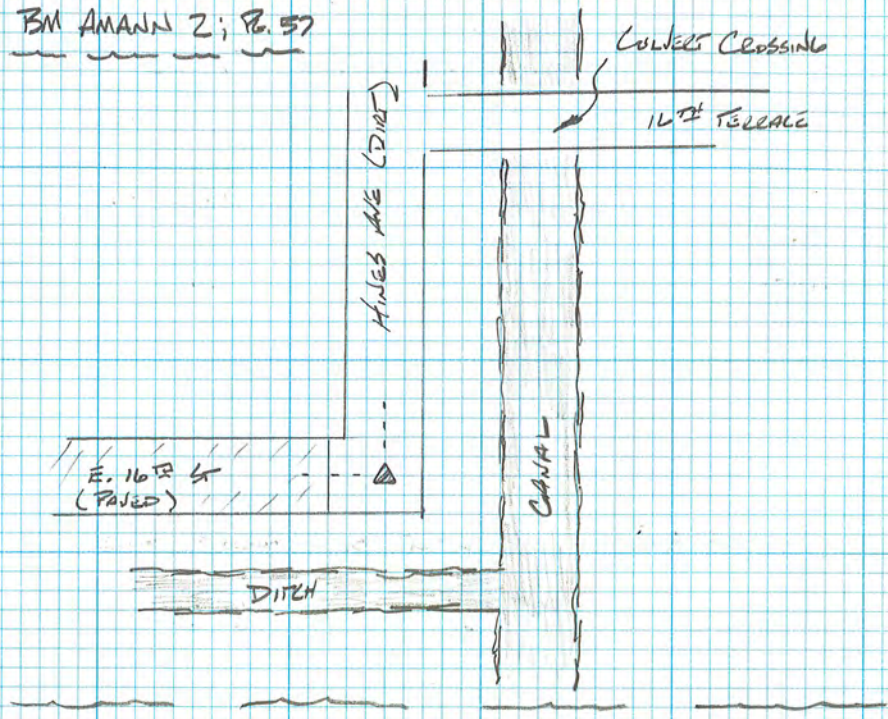
OCUPY Bm AMANN #1 w/OKEE BASE	OCUPY Bm AMANN #2 w/OKEE POWER
START 9:31	START 7:57
END 11:35	END 12:01
ANT. HT. 1.5 M.	ANT. HT. 1.5 M.

OCUPY Bm 722 w/OKEE BASE	OCUPY Bm AMANN #3 w/OKEE POWER
START 12:16	START 12:31
END 2:25	END 2:34
ANT. HT. 1.5 M.	ANT. HT. 1.5 M.

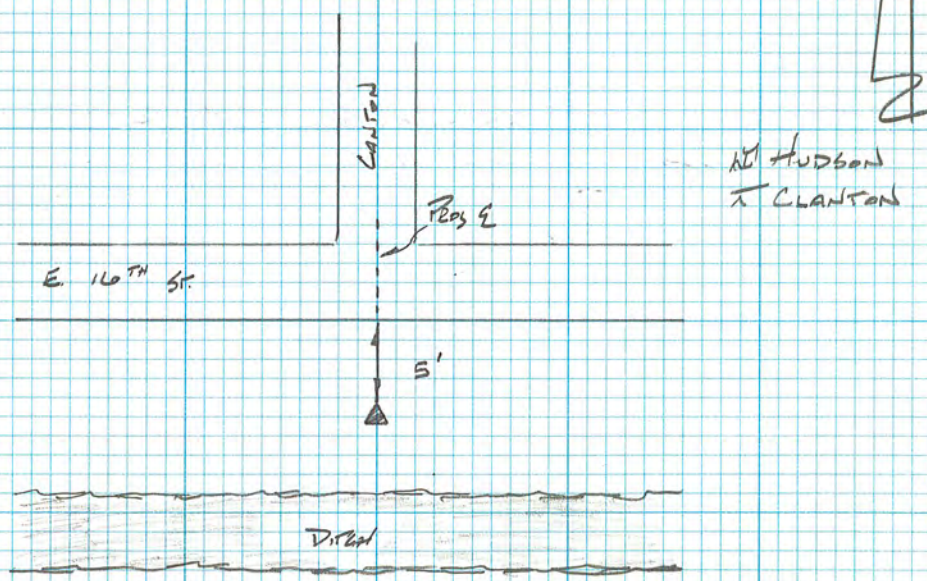
Bm AMANN 1 ; R. 57



Bm AMANN 2 ; R. 57



Bm AMANN 3 ; R. 57





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

DESIGNATION: L727		PROJECT: L-727, L-1137 & L-2187 USGS Wells	
ESTABLISHED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT		SURVEYOR: Ronnie Hudson	
RECOVERED BY:		DATE: 13-jun-16	
GEOGRAPHIC POSITION			
SECTION 11	TOWNSHIP 44 SOUTH	RANGE 27 EAST	
COUNTY: Collier	NAME OF QUADRANGLE: ALVA GEOGRAPHIC INDEX OF QUAD 2213		
HORIZONTAL DATUM: 1927 (1983) Other _____ (circle one) ZONE E or W			
VERTICAL DATUM: MSL 1929 (1988) Other _____ (circle one)			
VERTICAL ACCURACY: 1 2 (3)			
STATE PLANE COORDINATE	X= 460915.30	Y= 847462.26	NAVD 88 EL. 20.754 NGVD 29 EL.
CORPSCON 6.0.1 CONVERSION FACTOR (NAVD88 TO NGVD29): +1.240			
LATITUDE: 26°39'50.092"N		LONGITUDE: 81°35'52.284"W	
RECOVERY DATA			
Stamping: L727 BM 2016			
To Reach: FROM THE INTERSECTION OF STATE ROAD 80 (S.R.80) AND COUNTY ROAD 884 (C.R. 884 JOEL BOULEVARD), GO SOUTHERLY ALONG C.R. 884, 3.1 MILES MORE OR LESS TO STATION LOCATION ON THE LEFT.			
THE STATION IS LOCATED 5 FEET EAST OF THE EAST EDGE OF C.R. 884 PAVEMENT; 18.1 FEET (MORE OR LESS) WESTERLY OF USGS WELL L727, 27.2 FEET (MORE OR LESS) SOUTHWESTERLY OF USGS WELL L2187 AND 0.5 OF A FOOT BELOW GROUND LEVEL.			
STATION IS A SOUTH FLORIDA WATER MANAGEMENT DISTRICT ALUMINUM DIS SET IN A 1-1/4 INCH IRON PIPE SURROUNDED BY A MASS OF CONCRETE. THE DISK IS STAMPED "L727 BM 2016."			
NOTABLE LAND MARKS:			
NGS SOURCE BENCHMARK: NGS AMANN (DP7137)			
FIELD BOOK MISC 6V PAGES 57 - 60			
PICTURES			
Overall Site			
Looking East from Joel Boulevard			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

SKETCH

MISG FB L-117 4/18/16

WELL LOCATIONS F ELEV'S
Section 11 Twp. 44 S. Rge. 27 E.

OCUPI L-2187 W/DWLS BASE OCUPI L-1137 W/DWLS BASE

START	2.47	START	2.50
END	3.32	END	3.33
AVG. HT	0	AVG. HT	0

Distances To Wells L-727, L-2187, & L-1137

Bm	+	HT	-	End	Bm
	4.84	25.59			20.75

L-2187		2.30	23.29
L-727		2.69	22.70
L-1137		2.65	22.94

Bm		4.84	20.75
----	--	------	-------

END WELLS

MEAS FROM REF EL TO GND FOR GND EL @ WELL

L-2187:	2.5'	GND EL =	20.8'
L-727:	2.0'	"	20.9'
L-1137:	1.9'	"	21.0'

MISG FB L-117 4/18/16 (52)

OCUPI L-727 W/DWLS BASE

START	3.34
END	Battery died used remaining ties to estimate location
AVG. HT	0

Bm L-727 (2.58)

NOTEN CUT IN N TOP OF 4" STEEL PIPE

TOP OF PLATFORM & WELL OPENING

NOTEN CUT IN S. TOP OF FURNACE IN 4" STEEL PIPE

Bm ABOVE

WELL L-2187

WELL L-727

WELL L-1137

Project Information		Coordinate System	
Name:		Name:	Default
Size:		Datum:	WGS 1984
Modified:	2/15/2012 8:48:57 AM (UTC:-7)	Zone:	Default
Time zone:	Mountain Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:			

Level Report

Imported file: [LEE \(2\).DAT](#)
Instrument: DiNi
Standard error per kilometer of double leveling: 0.00230 ft
Standard error per turn/station setup: 0.00000 ft
Creation option: Delta elevations
Description usage: Feature codes

Run - 1 Raw Observations

Raw Misclosure: 0.00200 ft
 Σ BS Distances: 1461.900 ft
 Σ FS Distances: 1451.280 ft
Run Length: 2913.180 ft
Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/> 5.22900 ft			0.00000 ft	23.717 ft	0.00000 ft	23.717 ft	Benchmark	225.750 ft	AMANN 3
<input type="checkbox"/>	2			<input checked="" type="checkbox"/> 5.25300 ft	-0.02400 ft	23.693 ft	-0.00027 ft	23.693 ft	Computed	220.310 ft	3
	2	<input checked="" type="checkbox"/> 6.08400 ft								208.170 ft	3
<input type="checkbox"/>	3			<input checked="" type="checkbox"/> 3.71700 ft	2.36700 ft	26.060 ft	-0.00050 ft	26.060 ft	Computed	196.880 ft	3
	3	<input checked="" type="checkbox"/> 4.92500 ft								299.240 ft	3
<input checked="" type="checkbox"/>	4			<input checked="" type="checkbox"/> 9.68900 ft	-4.76400 ft	21.296 ft	-0.00100 ft	21.295 ft	Computed	305.150 ft	AMAN1 3
	4	<input checked="" type="checkbox"/> 9.43700 ft								304.230 ft	AMAN1 3
<input type="checkbox"/>	5			<input checked="" type="checkbox"/> 4.67400 ft	4.76300 ft	26.059 ft	-0.00150 ft	26.058 ft	Computed	300.460 ft	3
	5	<input checked="" type="checkbox"/> 3.52100 ft								212.600 ft	3
<input type="checkbox"/>	6					23.719 ft	-0.00174 ft	23.717 ft	Computed		3

			✓ 5.86100 ft	-2.34000 ft					203.640 ft	
	6	✓ 5.38300 ft							211.910 ft	3
✓	7		✓ 5.38300 ft	0.00000 ft	23.719 ft	-0.00200 ft	23.717 ft ▲	Benchmark	224.840 ft	AMANN 3

Run - 1 (N1) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
1-4 (E1)	Enabled	-2.42100 ft	-0.00100 ft	-2.42200 ft	3	1455.500 ft	16.23800 ft	18.65900 ft	0.02226 ft
4-7 (E2)	Enabled	2.42300 ft	-0.00100 ft	2.42200 ft	3	1457.680 ft	18.34100 ft	15.91800 ft	0.02228 ft

Run - 1 (N1) Reduced Coordinates

Point ID	Status	Elevation
1	Enabled	23.71714 ft
7	Enabled	23.71714 ft

Run - 2 Raw Observations

Raw Misclosure: -0.01900 ft
 Σ BS Distances: 6034.680 ft
 Σ FS Distances: 6054.590 ft
 Run Length: 12089.270 ft
 Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
✓	4	✓ 5.66900 ft			0.00000 ft	21.296 ft	-0.00100 ft	21.295 ft	Computed	250.260 ft	AMAN1 3
	8			✓ 4.84300 ft	0.82600 ft	22.122 ft	-0.00018 ft	22.122 ft	Computed	251.410 ft	3
	8	✓ 5.60100 ft								252.460 ft	3
	9			✓ 4.23300 ft	1.36800 ft	23.490 ft	0.00065 ft	23.491 ft	Computed	251.900 ft	3
	9	✓ 5.06500 ft								124.340 ft	3
	10			✓ 5.93000 ft	-0.86500 ft	22.625 ft	0.00086 ft	22.626 ft	Computed	125.820 ft	3
	10	✓ 5.83600 ft								258.560 ft	3
	11			✓ 4.57100 ft	1.26500 ft	23.890 ft	0.00174 ft	23.892 ft	Computed	262.170 ft	3
	11	✓ 4.90800 ft								258.170 ft	3

<input type="checkbox"/>	12		<input checked="" type="checkbox"/> 5.80700 ft	-0.89900 ft	22.991 ft	0.00261 ft	22.994 ft	Computed	257.450 ft	3
	12	<input checked="" type="checkbox"/> 5.35600 ft							258.500 ft	3
<input type="checkbox"/>	13		<input checked="" type="checkbox"/> 4.89100 ft	0.46500 ft	23.456 ft	0.00347 ft	23.460 ft	Computed	255.710 ft	3
	13	<input checked="" type="checkbox"/> 5.38400 ft							262.700 ft	3
<input type="checkbox"/>	14		<input checked="" type="checkbox"/> 5.24600 ft	0.13800 ft	23.594 ft	0.00437 ft	23.599 ft	Computed	260.660 ft	3
	14	<input checked="" type="checkbox"/> 5.31400 ft							208.000 ft	3
<input type="checkbox"/>	15		<input checked="" type="checkbox"/> 4.50500 ft	0.80900 ft	24.403 ft	0.00492 ft	24.408 ft	Computed	203.380 ft	3
	15	<input checked="" type="checkbox"/> 4.40700 ft							250.030 ft	3
<input type="checkbox"/>	16		<input checked="" type="checkbox"/> 5.60600 ft	-1.19900 ft	23.204 ft	0.00578 ft	23.210 ft	Computed	263.160 ft	3
	16	<input checked="" type="checkbox"/> 5.38000 ft							260.860 ft	3
<input type="checkbox"/>	17		<input checked="" type="checkbox"/> 5.20000 ft	0.18000 ft	23.384 ft	0.00664 ft	23.391 ft	Computed	252.460 ft	3
	17	<input checked="" type="checkbox"/> 5.14500 ft							252.790 ft	3
<input type="checkbox"/>	18		<input checked="" type="checkbox"/> 4.92000 ft	0.22500 ft	23.609 ft	0.00737 ft	23.617 ft	Computed	222.540 ft	3
	18	<input checked="" type="checkbox"/> 4.95800 ft							254.330 ft	3
<input type="checkbox"/>	19		<input checked="" type="checkbox"/> 5.36700 ft	-0.40900 ft	23.200 ft	0.00821 ft	23.208 ft	Computed	253.150 ft	3
	19	<input checked="" type="checkbox"/> 5.29100 ft							146.190 ft	3
<input checked="" type="checkbox"/>	20		<input checked="" type="checkbox"/> 5.67600 ft	-0.38500 ft	22.815 ft	0.00849 ft	22.824 ft	Computed	143.670 ft	AMAN2 3
	20	<input checked="" type="checkbox"/> 5.43400 ft							144.320 ft	AMAN2 3
<input type="checkbox"/>	21		<input checked="" type="checkbox"/> 5.17300 ft	0.26100 ft	23.076 ft	0.00876 ft	23.085 ft	Computed	145.440 ft	3
	21	<input checked="" type="checkbox"/> 5.40000 ft							252.760 ft	3
<input type="checkbox"/>	22		<input checked="" type="checkbox"/> 4.91800 ft	0.48200 ft	23.558 ft	0.00960 ft	23.568 ft	Computed	254.990 ft	3
	22	<input checked="" type="checkbox"/> 4.96000 ft							221.390 ft	3
<input type="checkbox"/>	23		<input checked="" type="checkbox"/> 5.08000 ft	-0.12000 ft	23.438 ft	0.01036 ft	23.448 ft	Computed	258.630 ft	3
	23	<input checked="" type="checkbox"/> 4.96000 ft							246.390 ft	3
<input type="checkbox"/>	24			0.06400 ft	23.502 ft	0.01120 ft	23.513 ft	Computed	262.240 ft	3

			✓ 4.89600 ft								
	24	✓ 5.27800 ft								262.370 ft	3
<input type="checkbox"/>	25		✓ 4.42000 ft	0.85800 ft	24.360 ft	0.01206 ft	24.372 ft	Computed		252.430 ft	3
	25	✓ 4.39900 ft								206.000 ft	3
<input type="checkbox"/>	26		✓ 5.35200 ft	-0.95300 ft	23.407 ft	0.01263 ft	23.420 ft	Computed		208.600 ft	3
	26	✓ 5.23300 ft								259.970 ft	3
<input type="checkbox"/>	27		✓ 5.52100 ft	-0.28800 ft	23.119 ft	0.01352 ft	23.133 ft	Computed		263.980 ft	3
	27	✓ 5.09000 ft								255.740 ft	3
<input type="checkbox"/>	28		✓ 5.22200 ft	-0.13200 ft	22.987 ft	0.01440 ft	23.002 ft	Computed		261.680 ft	3
	28	✓ 5.54400 ft								254.230 ft	3
<input type="checkbox"/>	29		✓ 4.88200 ft	0.66200 ft	23.649 ft	0.01526 ft	23.664 ft	Computed		261.880 ft	3
	29	✓ 4.85000 ft								260.430 ft	3
<input type="checkbox"/>	30		✓ 5.63300 ft	-0.78300 ft	22.866 ft	0.01614 ft	22.882 ft	Computed		256.860 ft	3
	30	✓ 5.64000 ft								128.250 ft	3
<input type="checkbox"/>	31		✓ 5.53600 ft	0.10400 ft	22.970 ft	0.01634 ft	22.986 ft	Computed		121.330 ft	3
	31	✓ 4.75000 ft								254.490 ft	3
<input type="checkbox"/>	32		✓ 5.60100 ft	-0.85100 ft	22.119 ft	0.01718 ft	22.136 ft	Computed		252.130 ft	3
	32	✓ 4.92100 ft								251.150 ft	3
	4		✓ 5.76300 ft	-0.84200 ft	21.277 ft	0.01800 ft	21.295 ft	Computed		250.920 ft	AMAN1 3

Run - 2 (N2) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
4-20 (E3)	Enabled	1.51900 ft	0.00949 ft	1.52849 ft	13	6040.670 ft	68.31400 ft	66.79500 ft	0.04448 ft
20-4 (E4)	Enabled	-1.53800 ft	0.00951 ft	-1.52849 ft	13	6048.600 ft	66.45900 ft	67.99700 ft	0.04454 ft

Run - 3 Raw Observations

Raw Misclosure: -0.00800 ft

 Σ BS Distances: 6514.260 ft Σ FS Distances: 6557.230 ft

Run Length: 13071.490 ft

Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	20	<input checked="" type="checkbox"/> 5.29500 ft			0.00000 ft	22.815 ft	0.00849 ft	22.824 ft	Computed	251.380 ft	AMAN2 3
<input type="checkbox"/>	34			<input checked="" type="checkbox"/> 4.90300 ft	0.39200 ft	23.207 ft	0.00880 ft	23.216 ft	Computed	253.610 ft	3
	34	<input checked="" type="checkbox"/> 4.37500 ft								249.610 ft	3
<input type="checkbox"/>	35			<input checked="" type="checkbox"/> 5.06300 ft	-0.68800 ft	22.519 ft	0.00910 ft	22.528 ft	Computed	250.750 ft	3
	35	<input checked="" type="checkbox"/> 5.25400 ft								250.690 ft	3
<input type="checkbox"/>	36			<input checked="" type="checkbox"/> 5.02700 ft	0.22700 ft	22.746 ft	0.00941 ft	22.756 ft	Computed	250.720 ft	3
	36	<input checked="" type="checkbox"/> 4.82900 ft								255.970 ft	3
<input type="checkbox"/>	37			<input checked="" type="checkbox"/> 5.75200 ft	-0.92300 ft	21.823 ft	0.00972 ft	21.833 ft	Computed	247.010 ft	3
	37	<input checked="" type="checkbox"/> 5.55200 ft								253.670 ft	3
<input type="checkbox"/>	38			<input checked="" type="checkbox"/> 4.76000 ft	0.79200 ft	22.615 ft	0.01003 ft	22.625 ft	Computed	253.840 ft	3
	38	<input checked="" type="checkbox"/> 5.00000 ft								247.930 ft	3
<input type="checkbox"/>	39			<input checked="" type="checkbox"/> 5.64300 ft	-0.64300 ft	21.972 ft	0.01034 ft	21.982 ft	Computed	252.130 ft	3
	39	<input checked="" type="checkbox"/> 5.80200 ft								251.800 ft	3
<input type="checkbox"/>	40			<input checked="" type="checkbox"/> 5.49100 ft	0.31100 ft	22.283 ft	0.01064 ft	22.294 ft	Computed	251.410 ft	3
	40	<input checked="" type="checkbox"/> 4.69600 ft								250.790 ft	3
<input type="checkbox"/>	41			<input checked="" type="checkbox"/> 5.31400 ft	-0.61800 ft	21.665 ft	0.01095 ft	21.676 ft	Computed	248.000 ft	3
	41	<input checked="" type="checkbox"/> 4.60600 ft								251.310 ft	3
<input type="checkbox"/>	42			<input checked="" type="checkbox"/> 5.20600 ft	-0.60000 ft	21.065 ft	0.01126 ft	21.076 ft	Computed	254.260 ft	3
	42	<input checked="" type="checkbox"/> 4.73200 ft								246.750 ft	3
<input type="checkbox"/>	43			<input checked="" type="checkbox"/> 5.66300 ft	-0.93100 ft	20.134 ft	0.01156 ft	20.146 ft	Computed	251.340 ft	3
	43										3

		<input checked="" type="checkbox"/> 4.96200 ft								248.950 ft	
<input type="checkbox"/>	44		<input checked="" type="checkbox"/> 4.87800 ft	0.08400 ft	20.218 ft	0.01187 ft	20.230 ft	Computed		252.850 ft	3
	44	<input checked="" type="checkbox"/> 4.44600 ft								248.460 ft	3
<input type="checkbox"/>	45		<input checked="" type="checkbox"/> 4.44500 ft	0.00100 ft	20.219 ft	0.01217 ft	20.231 ft	Computed		249.770 ft	3
	45	<input checked="" type="checkbox"/> 6.17300 ft								254.890 ft	3
<input checked="" type="checkbox"/>	46		<input checked="" type="checkbox"/> 5.27400 ft	0.89900 ft	21.118 ft	0.01249 ft	21.131 ft	Computed		257.090 ft	AMAN3 3
	46	<input checked="" type="checkbox"/> 5.32000 ft								256.500 ft	AMAN3 3
<input type="checkbox"/>	47		<input checked="" type="checkbox"/> 6.23000 ft	-0.91000 ft	20.208 ft	0.01281 ft	20.221 ft	Computed		254.890 ft	3
	47	<input checked="" type="checkbox"/> 4.60300 ft								248.690 ft	3
<input type="checkbox"/>	48		<input checked="" type="checkbox"/> 4.31400 ft	0.28900 ft	20.497 ft	0.01311 ft	20.510 ft	Computed		252.430 ft	3
	48	<input checked="" type="checkbox"/> 4.44800 ft								250.290 ft	3
<input type="checkbox"/>	49		<input checked="" type="checkbox"/> 4.63500 ft	-0.18700 ft	20.310 ft	0.01342 ft	20.324 ft	Computed		249.440 ft	3
	49	<input checked="" type="checkbox"/> 5.24900 ft								251.510 ft	3
<input type="checkbox"/>	50		<input checked="" type="checkbox"/> 4.41500 ft	0.83400 ft	21.144 ft	0.01373 ft	21.158 ft	Computed		255.150 ft	3
	50	<input checked="" type="checkbox"/> 5.32500 ft								247.700 ft	3
<input type="checkbox"/>	51		<input checked="" type="checkbox"/> 4.64500 ft	0.68000 ft	21.824 ft	0.01403 ft	21.838 ft	Computed		249.310 ft	3
	51	<input checked="" type="checkbox"/> 5.98700 ft								250.160 ft	3
<input type="checkbox"/>	52		<input checked="" type="checkbox"/> 5.61400 ft	0.37300 ft	22.197 ft	0.01434 ft	22.211 ft	Computed		253.120 ft	3
	52	<input checked="" type="checkbox"/> 4.88200 ft								250.620 ft	3
<input type="checkbox"/>	53		<input checked="" type="checkbox"/> 4.95400 ft	-0.07200 ft	22.125 ft	0.01464 ft	22.140 ft	Computed		248.590 ft	3
	53	<input checked="" type="checkbox"/> 5.56000 ft								253.120 ft	3
<input type="checkbox"/>	54		<input checked="" type="checkbox"/> 5.24000 ft	0.32000 ft	22.445 ft	0.01495 ft	22.460 ft	Computed		254.530 ft	3
	54	<input checked="" type="checkbox"/> 4.90800 ft								246.360 ft	3
<input type="checkbox"/>	55		<input checked="" type="checkbox"/> 5.19200 ft	-0.28400 ft	22.161 ft	0.01526 ft	22.176 ft	Computed		252.820 ft	3
	55									249.570 ft	3

		<input checked="" type="checkbox"/> 5.07800 ft									
<input type="checkbox"/>	56		<input checked="" type="checkbox"/> 4.55300 ft	0.52500 ft	22.686 ft	0.01557 ft	22.702 ft	Computed	254.890 ft	3	
	56	<input checked="" type="checkbox"/> 5.09200 ft							248.100 ft	3	
<input type="checkbox"/>	57		<input checked="" type="checkbox"/> 5.24200 ft	-0.15000 ft	22.536 ft	0.01587 ft	22.552 ft	Computed	251.640 ft	3	
	57	<input checked="" type="checkbox"/> 4.93600 ft							250.360 ft	3	
<input type="checkbox"/>	58		<input checked="" type="checkbox"/> 4.08900 ft	0.84700 ft	23.383 ft	0.01618 ft	23.399 ft	Computed	255.310 ft	3	
	58	<input checked="" type="checkbox"/> 4.66200 ft							249.080 ft	3	
	20		<input checked="" type="checkbox"/> 5.23800 ft	-0.57600 ft	22.807 ft	0.01649 ft	22.824 ft	Computed	252.330 ft		AMAN2 3

Run - 3 (N3) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
20-46 (E5)	Enabled	-1.69700 ft	0.00400 ft	-1.69300 ft	13	6534.980 ft	65.72200 ft	67.41900 ft	0.04728 ft
46-20 (E6)	Enabled	1.68900 ft	0.00400 ft	1.69300 ft	13	6536.510 ft	66.05000 ft	64.36100 ft	0.04730 ft

Run - 4 Raw Observations


Raw Misclosure: 0.00400 ft
 Σ BS Distances: 5695.290 ft
 Σ FS Distances: 5725.310 ft
 Run Length: 11420.600 ft
 Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	46	<input checked="" type="checkbox"/> 5.46800 ft			0.00000 ft	21.118 ft	0.01249 ft	21.131 ft	Computed	246.360 ft	AMAN3 3
<input type="checkbox"/>	60			<input checked="" type="checkbox"/> 4.57700 ft	0.89100 ft	22.009 ft	0.01231 ft	22.021 ft	Computed	253.740 ft	3
	60	<input checked="" type="checkbox"/> 4.06000 ft								252.850 ft	3
<input type="checkbox"/>	61			<input checked="" type="checkbox"/> 4.56500 ft	-0.50500 ft	21.504 ft	0.01213 ft	21.516 ft	Computed	249.930 ft	3
	61	<input checked="" type="checkbox"/> 4.12800 ft								252.820 ft	3
<input type="checkbox"/>	62			<input checked="" type="checkbox"/> 4.95600 ft	-0.82800 ft	20.676 ft	0.01195 ft	20.688 ft	Computed	247.280 ft	3
	62										3

		✓ 4.85500 ft								252.230 ft	
<input type="checkbox"/>	63		✓ 4.82000 ft	0.03500 ft	20.711 ft	0.01176 ft	20.723 ft	Computed		252.430 ft	3
	63	✓ 5.20800 ft								246.290 ft	3
<input type="checkbox"/>	64		✓ 5.15400 ft	0.05400 ft	20.765 ft	0.01158 ft	20.777 ft	Computed		252.230 ft	3
	64	✓ 4.70700 ft								252.560 ft	3
<input type="checkbox"/>	65		✓ 4.79200 ft	-0.08500 ft	20.680 ft	0.01140 ft	20.692 ft	Computed		250.160 ft	3
	65	✓ 5.13000 ft								252.690 ft	3
<input type="checkbox"/>	66		✓ 4.86100 ft	0.26900 ft	20.949 ft	0.01122 ft	20.960 ft	Computed		252.760 ft	3
	66	✓ 5.19900 ft								223.360 ft	3
<input type="checkbox"/>	67		✓ 4.56100 ft	0.63800 ft	21.587 ft	0.01105 ft	21.598 ft	Computed		256.590 ft	3
	67	✓ 4.45800 ft								246.060 ft	3
<input type="checkbox"/>	68		✓ 5.22200 ft	-0.76400 ft	20.823 ft	0.01087 ft	20.834 ft	Computed		255.080 ft	3
	68	✓ 5.30800 ft								247.110 ft	3
<input type="checkbox"/>	69		✓ 5.13900 ft	0.16900 ft	20.992 ft	0.01069 ft	21.003 ft	Computed		253.900 ft	3
	69	✓ 4.90400 ft								249.800 ft	3
<input type="checkbox"/>	70		✓ 5.34500 ft	-0.44100 ft	20.551 ft	0.01053 ft	20.562 ft	Computed		232.180 ft	3
	70	✓ 5.20200 ft								114.300 ft	3
<input type="checkbox"/>	71		✓ 5.01000 ft	0.19200 ft	20.743 ft	0.01049 ft	20.754 ft	Computed		120.570 ft	L727 3
	71	✓ 5.29100 ft								117.420 ft	L727 3
<input type="checkbox"/>	72		✓ 5.48400 ft	-0.19300 ft	20.550 ft	0.01045 ft	20.561 ft	Computed		118.010 ft	3
	72	✓ 5.44700 ft								240.910 ft	3
<input type="checkbox"/>	73		✓ 5.05600 ft	0.39100 ft	20.941 ft	0.01028 ft	20.951 ft	Computed		240.160 ft	3
	73	✓ 5.05500 ft								254.630 ft	3
<input type="checkbox"/>	74		✓ 5.13400 ft	-0.07900 ft	20.862 ft	0.01010 ft	20.872 ft	Computed		246.980 ft	3
	74									254.820 ft	3

		✓ 5.07600 ft									
<input type="checkbox"/>	75		✓ 4.45900 ft	0.61700 ft	21.479 ft	0.00992 ft	21.489 ft	Computed	248.030 ft	3	
	75	✓ 4.78000 ft							243.140 ft	3	
<input type="checkbox"/>	76		✓ 5.37900 ft	-0.59900 ft	20.880 ft	0.00976 ft	20.890 ft	Computed	227.100 ft	3	
	76	✓ 4.73200 ft							253.480 ft	3	
<input type="checkbox"/>	77		✓ 4.77200 ft	-0.04000 ft	20.840 ft	0.00957 ft	20.850 ft	Computed	257.090 ft	3	
	77	✓ 4.29400 ft							244.160 ft	3	
<input type="checkbox"/>	78		✓ 4.17500 ft	0.11900 ft	20.959 ft	0.00939 ft	20.969 ft	Computed	250.850 ft	3	
	78	✓ 5.06100 ft							253.310 ft	3	
<input type="checkbox"/>	79		✓ 4.90600 ft	0.15500 ft	21.114 ft	0.00921 ft	21.123 ft	Computed	253.970 ft	3	
	79	✓ 4.78200 ft							246.100 ft	3	
<input type="checkbox"/>	80		✓ 5.11400 ft	-0.33200 ft	20.782 ft	0.00903 ft	20.791 ft	Computed	250.230 ft	3	
	80	✓ 4.81600 ft							249.180 ft	3	
<input type="checkbox"/>	81		✓ 4.15500 ft	0.66100 ft	21.443 ft	0.00885 ft	21.452 ft	Computed	254.100 ft	3	
	81	✓ 4.80500 ft							249.640 ft	3	
<input type="checkbox"/>	82		✓ 4.35300 ft	0.45200 ft	21.895 ft	0.00867 ft	21.904 ft	Computed	253.840 ft	3	
	82	✓ 4.66500 ft							252.070 ft	3	
	46		✓ 5.43800 ft	-0.77300 ft	21.122 ft	0.00849 ft	21.131 ft	Computed	248.100 ft		AMAN3 3

Run - 4 (N4) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
 46-46 (E7)	Enabled	0.00400 ft	-0.00400 ft	0.00000 ft	24	11420.600 ft	117.43100 ft	117.42700 ft	0.06153 ft

Date: 6/15/2016 8:37:52 AM	Project:	Trimble Business Center
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The NGS Data Sheet

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

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PROGRAM = datasheet95, VERSION = 8.9
1      National Geodetic Survey,  Retrieval Date = JUNE 15, 2016
DP7137 *****
DP7137 DESIGNATION - AMANN
DP7137 PID - DP7137
DP7137 STATE/COUNTY- FL/HENDRY
DP7137 COUNTRY - US
DP7137 USGS QUAD - ALVA (1973)
DP7137
DP7137 *CURRENT SURVEY CONTROL
DP7137
DP7137* NAD 83(1986) POSITION- 26 40 14.71 (N) 081 33 18.36 (W) HD_HELD1
DP7137* NAVD 88 ORTHO HEIGHT - 7.229 (meters) 23.72 (feet) ADJUSTED
DP7137
DP7137 GEOID HEIGHT - -24.481 (meters) GEOID12B
DP7137 DYNAMIC HEIGHT - 7.217 (meters) 23.68 (feet) COMP
DP7137 MODELED GRAVITY - 979,074.3 (mgal) NAVD 88
DP7137
DP7137 VERT ORDER - SECOND CLASS I
DP7137
DP7137.The horizontal coordinates were determined by differentially corrected
DP7137.hand held GPS observations or other comparable positioning techniques
DP7137.and have an estimated accuracy of +/- 3 meters.
DP7137.
DP7137.The orthometric height was determined by differential leveling and
DP7137.adjusted by the NATIONAL GEODETIC SURVEY
DP7137.in May 2015.
DP7137
DP7137.Significant digits in the geoid height do not necessarily reflect accuracy.
DP7137.GEOID12B height accuracy estimate available here.
DP7137
DP7137.Photographs are available for this station.
DP7137
DP7137.The dynamic height is computed by dividing the NAVD 88
DP7137.geopotential number by the normal gravity value computed on the
DP7137.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DP7137.degrees latitude (g = 980.6199 gals.).
DP7137
DP7137.The modeled gravity was interpolated from observed gravity values.
DP7137
DP7137;
DP7137; SPC FL E - North East Units Estimated Accuracy
DP7137; SPC FL E - 259,045.4 144,746.8 MT (+/- 3 meters HH1 GPS)
DP7137
DP7137 SUPERSEDED SURVEY CONTROL
DP7137
DP7137.No superseded survey control is available for this station.
DP7137
DP7137_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK4476550089(NAD 83)
DP7137
DP7137_MARKER: F = FLANGE-ENCASED ROD
DP7137_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

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DP7137_STAMPING: AMANN 2015

DP7137_MARK LOGO: CARDNO

DP7137_PROJECTION: RECESSED 15 CENTIMETERS

DP7137_MAGNETIC: O = OTHER; SEE DESCRIPTION

DP7137_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

DP7137_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DP7137+SATELLITE: SATELLITE OBSERVATIONS - January 08, 2015

DP7137_ROD/PIPE-DEPTH: 15.6 meters

DP7137

DP7137	HISTORY	- Date	Condition	Report By
DP7137	HISTORY	- 20150108	MONUMENTED	CARDNO

DP7137

DP7137 STATION DESCRIPTION

DP7137

DP7137'DESCRIBED BY CARDNO INC 2015 (JH)

DP7137'THE STATION IS LOCATED APPROXIMATELY 9 MI (14.5 KM) SOUTHWEST OF

DP7137'LABELLE, 3.9 MI (6.3 KM) SOUTHEAST OF ALVA.

DP7137'

DP7137'THE STATION IS ON THE PROPERTY OF THE SOUTH FLORIDA WATER MANAGEMENT

DP7137'DISTRICT.

DP7137'

DP7137'TO REACH THE STATION FROM THE INTERSECTION OF STATE ROAD 80 (PALM

DP7137'BEACH BLVD) AND WEST COWBOY WAY ON THE SOUTHWEST SIDE OF LABELLE, GO

DP7137'SOUTHWEST ALONG STATE ROAD 80 FOR 3.9 MI (6.3 KM) TO CONGEN ROAD ON

DP7137'THE LEFT (SOUTH), GO SOUTH ALONG CONGEN ROAD 0.14 MI (0.2 KM) TO

DP7137'GATE(PASS THROUGH GATE WITH SFWMD LOCK). CONTINUE SOUTH 0.4 MI (0.6

DP7137'KM) TO THE JUNCTION OF AN EAST - WEST DIRT ROAD, THENCE 3.0 MI (4.8

DP7137'KM) SOUTHWEST ALONG DIRT ROAD TO THE JUNCTION OF A NORTH - SOUTH DIRT

DP7137'ROAD, THENCE 2.2 MI (3.5 KM) OUTH AND SOUTHEAST ALONG DIRT ROAD TO A

DP7137'THE MARK ON THE LEFT.

DP7137'

DP7137'IT IS 130.5 FT (39.8 M) SOUTHEAST OF A WOOD POWER POLE WITH EAST -

DP7137'WEST RUNNING LINES, 79.3 FT (24.2 M) NORTHEAST OF THE NORTHEAST CORNER

DP7137'OF A CONCRETE BRIDGE, 41 FT (12.5 M) EAST OF THE CENTERLINE OF A DIRT

DP7137'ROAD, 19 FT (5.8 M) SOUTHWEST OF THE TOP OF BANK OF A CANAL AND 2 FT

DP7137'(0.6 M) NORTHWEST OF A CARSONITE WITNESS POST.

DP7137'

DP7137'NOTE ACCESS TO THE DATUM POINT IS THROUGH A 5 INCH (13 CM) LOGO CAP.

*** retrieval complete.

Elapsed Time = 00:00:02