



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

SURVEYOR'S REPORT Specific Purpose Survey Caulkins Water Farm Pilot Project Martin County, Florida

DESCRIPTION OF PROJECT AREA:

This Specific Purpose Survey project site is located along the North side of C-44 Canal in Sections 29 and 30, Township 39 South, Range 40 East, Martin County, Florida. The subject project area was once a citrus grove and is now storing water over the majority of the property.

SURVEY SCOPE OF WORK:

The purpose of this survey is to establish NAVD88 benchmarks, well reference elevations and ground elevations at the following well sites:

- SG-SW
- SG-SE
- CAU-1D
- CAU-1DL
- CAU-1M
- CAU-1S
- CAU-2S
- CAU-3S
- CAU-4S
- CAU-5D
- CAU-5M
- CAU-5S
- CAU-6D
- CAU-6M
- CAU-7D
- CAU-7M

DATA SOURCES:

The following vertical control points were used during the course of this survey to establish the elevations at the above referenced sites. The benchmarks were established and provided to the District by GCY, INC. and verified by District field staff:

- GCY 59A
- GCY 59B
- GCY 60B
- GCY 60C

~~SURVEY METHODOLOGY:~~ METHODOLOGY

Closed loop level runs were performed to establish site bench marks (included on accompanying DVD) using a Trimble a .7mm DiNi digital level with the results exceeding 3rd order tolerances. Elevations were then transferred to the wells and ground elevations were determined. The measuring points for the wells are

"V" notches on top of the PVC well casings. Ground elevations were measured in close proximity to the well locations.

State plane coordinates (NAD83) were established at the well sites and on the established benchmarks by Real Time Kinematic Global Positioning procedures (RTK GPS). The expected horizontal accuracy is +/- 1 foot. The coordinates for the CAU-1 well sites was established with a hand held Garmin mapping grade GPS unit.

SURVEY RESULTS AT WELL SITES:

CAU-1D

Northing = 988763

Easting = 862218

Measuring Point Elevation = 34.78

Ground Elevation = 25.6

CAU-1LD

Northing = 988763

Easting = 862218

Measuring Point Elevation = 34.73

Ground Elevation = 25.9

CAU-1M

Northing = 988763

Easting = 862218

Measuring Point Elevation = 34.87

Ground Elevation = 25.5

CAU-1S

Northing = 988763

Easting = 862218

Measuring Point Elevation = 34.80

Ground Elevation = 25.7

CAU-2S

Northing = 989886

Easting = 864308

Measuring point elevation = 30.78

Ground Elevation = 31.2

CAU-3S

Northing = 987400

Easting = 862477

Measuring Point Elevation = 26.98

Ground Elevation = 27.2

CAU-4S

Northing = 988793

Easting = 859860

Measuring Point Elevation = 30.52

Ground Elevation = 30.9

CAU-5D
Northing = 991630
Easting = 862135
Measuring Point Elevation = 31.10
Ground Elevation = 31.4

CAU-5M
Northing = 991630
Easting = 862141
Measuring Point Elevation = 31.02
Ground Elevation = 31.4

CAU-5S
Northing = 991629
Easting = 862145
Measuring Point Elevation = 30.94
Ground Elevation = 31.4

CAU-6D
Northing = 987400
Easting = 864138
Measuring Point Elevation = 38.23
Ground Elevation = 38.7

CAU-6M
Northing = 987406
Easting = 864137
Measuring Point Elevation = 38.33
Ground Elevation = 38.7

CAU-7D
Northing = 985867
Easting = 860685
Measuring Point Elevation = 33.92
Ground Elevation = 34.2

CAU-7M
Northing = 985861
Easting = 860678
Measuring Point Elevation = 33.85
Ground Elevation = 34.2

LIMITATIONS:

The horizontal positions established as a part of this survey are accurate to +/-1.0 foot and are for mapping purposes. They are not intended to be used as horizontal control points.

ACCOMPANYING DATA:

A DVD containing the following:

- Surveyor's report.
- Data files.

- Control point description sheets.
- Well and staff gauge location sketch.
- Site photos.
- Field notes.

SURVEYOR'S NOTES:

1. All data contained in this surveyor's report and the accompanying DVD is in U. S. Survey feet and decimal thereof.
2. This surveyor's report is not valid without the accompanying DVD and the signature and raised seal of the Florida Professional Surveyor and Mapper in responsible charge.
3. Date of last field work: October 23, 2014.
4. Field Staff: Kett, Mayer, Giammarco, Ebanks and Strickland.
5. Additions or deletions to this survey report by other than the signing party (or parties) is prohibited without the written consent of the signing party or (parties).
6. Revised to include the following wells; CAU-1D, CAU-1DL, CAU1-M and CAU-1S. The date of the field work was February 11, 2015.
7. The elevations shown hereon refer to the North American Vertical Datum of 1988, (NAVD 88) to convert to National Geodetic Vertical Datum of 1929 (NGVD29) add 1.40 based on Corpscon Version 6.0.1. with a custom CERP Geodetic Network NGVD29 file.
8. Coordinates, bearings and distances refer to the Florida State Plane Coordinate System, Transverse Mercator Projection, Florida East Zone, North American Datum of 1983 (NAD 83).
9. Field Book: C-44 Field Book #79K, Pages 25 through 42
10. Digital Level File: "CWF" and "CAU"
11. GPS Data Collector File: "Caulkins"

Certification

I hereby certify that this Specific Purpose Survey was made under my responsible charge and meets the applicable minimum technical standards for surveys as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17.051, Florida Administrative Code, pursuant to Section 472.027, Florida State Statutes.

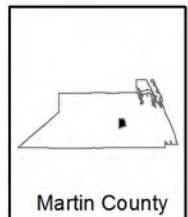
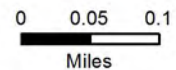


Richard E. Barnes, Jr.
Professional Surveyor and Mapper
Florida Certification Number 5173



DRAFT Caulkins Water Farm Pilot Project

- Interior Stage
- Perimeter Stage
- ▲ Proposed Well Locations
- Caulkins Project Area



Prepared By: Resource Evaluation
 Map: Caulkins_ProjectArea.mxd
 Date: 7/3/2014 Time: 11:57:12 AM

SEC 29, 30 TWP 39 RNG 40

ESTABLISH BM ELEV. @ MONITORING WELL SITE

FILE: CWF

LINE 1	PT	DESC	ELEV	BM	ADJUST
	1	59A		29.518	
	5	SG SW	27.199		27.20
	6	59B	27.495	27.494	

LINE 2

PT	DESC	ELEV	BM	ADJUST
6	59B		27.494	
9	CAU 4	26.293		26.29
12.16	59B	27.492	27.494	

LINE 3

PT	DESC	ELEV	BM	ADJUST
1	59A		29.518	
15	CAU 7	33.607		33.61
18.1	59A	29.515	29.518	

Ⓜ Ⓟ R. KETT
 Ⓜ T. MAYER
 Ⓟ A. GIAMMARCO

COMMENT

FND GCY 59-A BOX CUT IN PUMPSTATION

SET I.P. W/ CONC COLLAR SFWMD DISK STAMPED "BM CAU 59A"

FND GCY 59B 1/2" IRC

FND GCY 59B 1/2" IRC

SET IP W/ CONC COLLAR SFWMD DISK STAMPED "BM CAU 4"

FND GCY 59B 1/2" IRC

FND GCY 59A BOX CUT IN PUMPSTATION

SET I.P. W/ CONC COLLAR SFWMD DISK STAMPED "BM CAU 7"

FND GCY 59A BOX CUT IN PUMPSTATION

SEC	29, 30	TWP	39	RNG	40
CONT PG 25					
LINE 4					
PT	DESC	ELEV	BM	ADJUST	
1	59A		29.518		
24	CAV 3	26.790		26.79	
30/1	59A	29.527	29.518		
LINE 5					
PT	DESC	ELEV	BM	ADJUST	
31	60B		27.881		
35	CAV 2	24.770		24.76	
39	SG SE	30.425		30.41	
40	60C	26.857	26.846		
LINE 6					
PT	DESC	ELEV	BM	ADJUST	
40	60C		26.846		
44	CAV 6	39.416		39.41	
48/40	60C	26.850	26.846		

R. KETT T. MAVER A. GIAMMARCO					
COMMENT					
FND GCY 59A BOX CUT IN PUMPSTATION					
SET I.P. W/ CONC COLLAR SFWMD DISK STAMPED "BM CAV 3"					
FND GCY 59A BOX CUT IN PUMPSTATION					
FND GCY 60B 1/2" IRC					
SET I.P. W/ CONC. COLLAR SFWMD DISK STAMPED "BM CAV 2"					
SET I.P. W/ CONC. COLLAR SFWMD DISK STAMPED "BM CAV SG SE"					
FND GCY 60C 1/2" IRC					
FND GCY 60C 1/2" IRC					
SET I.P. W/ CONC COLLAR SFWMD DISK STAMPED "BM CAV 6"					
FND GCY 60C 1/2" IRC					

SEC 29, 30 TWP 39 RNG 40

CONT PG 26

LINE 7

PT	DESC	ELEV	BM	ADJUST
31	60B		27.881	
53	CAU 5	25.802		25.80
58/31	60B	27.883	27.881	

W P R. KETT
 T. MAYER
 P A. GIAMMARCO

COMMENT

FND GCY 60 B 1/2" IRC

SET IP W/ CONC COLLAR SFWM DISK STAMPED "BM CAU 5"

FND GCY 60B 1/2" IRC

SEC 29, 30 TWP 39 R1G 40

ESTABLISH ROUGH COORDINATES ON BAMS & COMPLETE CROSS SECTION OF C-44 CANAL

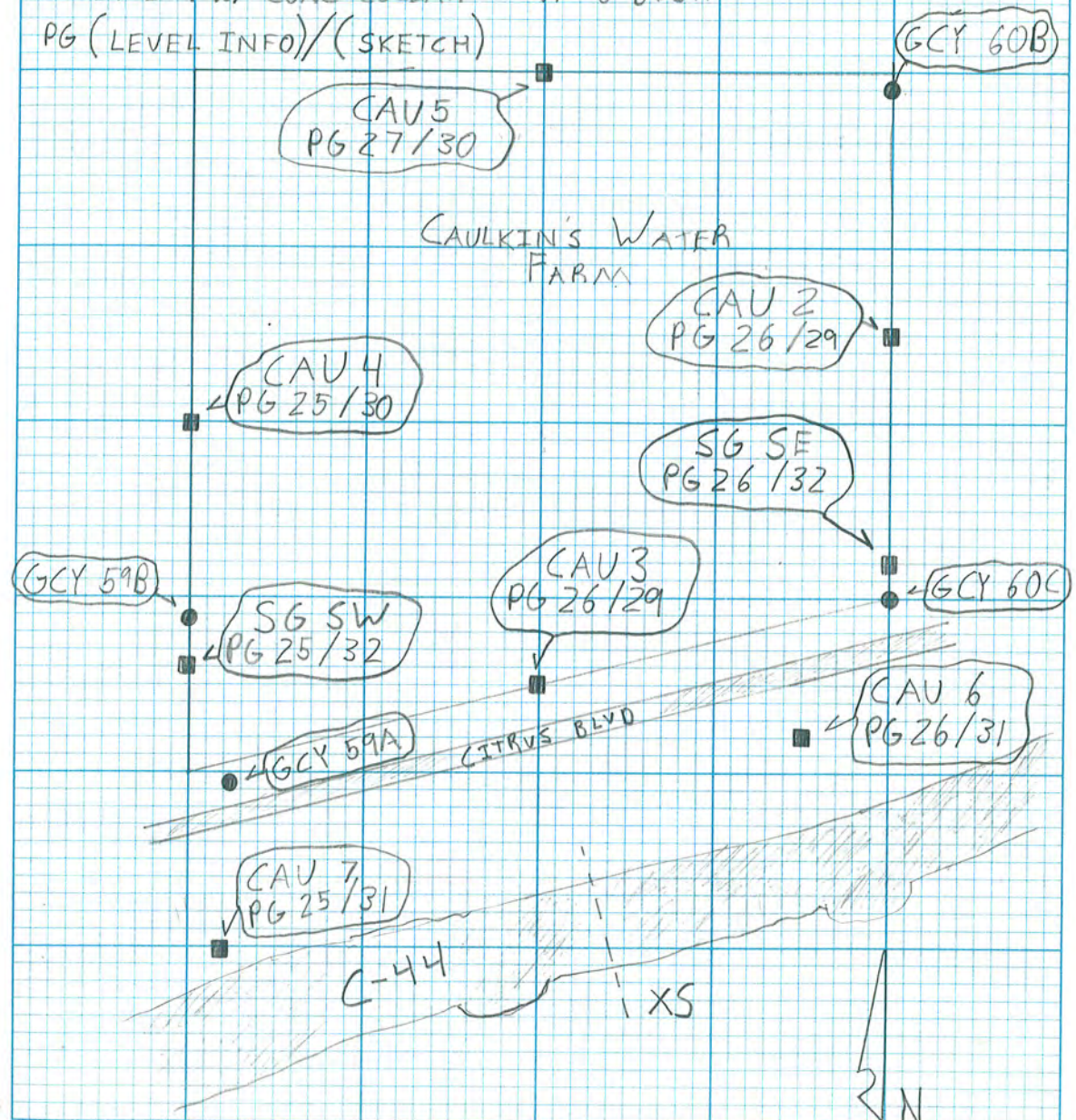
FILE: CAULKINS

BASE @ 60C (PT# 70004)

PT	DESC	COMMENT
50	CHK 60B	N=0.065 E=-0.032 V=-0.003
51	CHK 59B	N=-0.077 E=-0.003 V=0.006
52-61	XS	SOUTH SIDE OF C-44
62-65	XS	NORTH SIDE OF C-44
66	CAU 7	
67	CAU 6	
68	CAU 2	
69	CAU 5	
70	CAU 4	
71	SG SW	
72	CAU 3	
73	SG SE	
74	CHK 60B	N=0.122 E=-0.050 V=0.062

R. KETT
T. MAYER
A. GIAMMARCO

- FNO GCY 1/2" IRC (59A = BOX CUT)
- SET I.P. W/ CONC COLLAR SFW/MO DISK PG (LEVEL INFO)/(SKETCH)

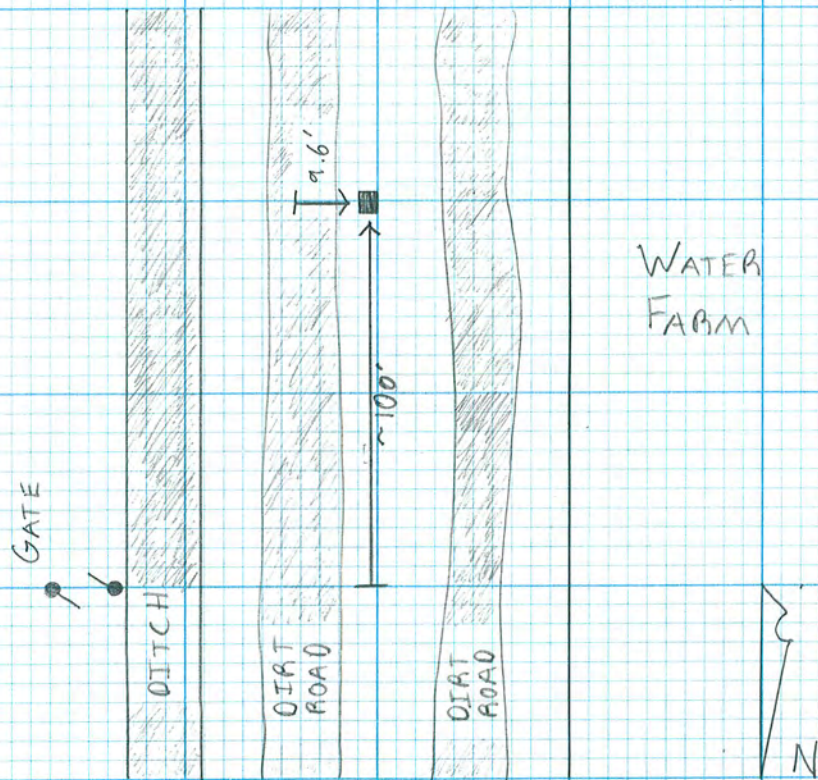


SEC 29,30 TWP 39 RNG 40

CONT PG 28

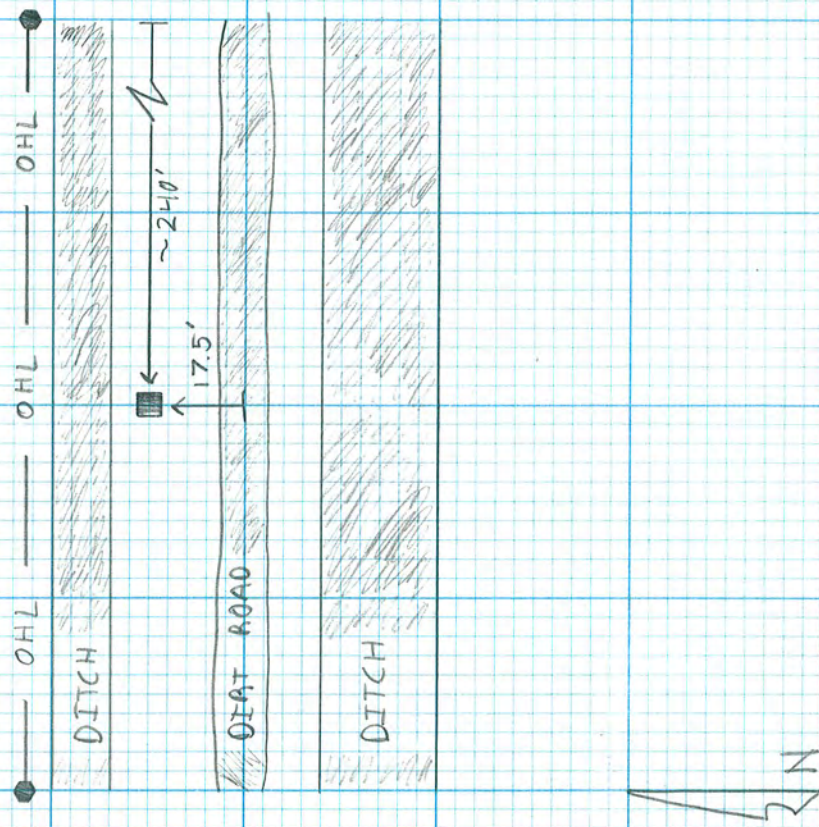
CAU 2

SET I.P. w/ CONC. COLLAR SFWMD DISK
0.5' BELOW GND STAMPED "BM CAU 2 2014"



CAU 3

SET I.P. w/ CONC. COLLAR SFWMD DISK
0.7' BELOW GND STAMPED "BM CAU 3 2014"

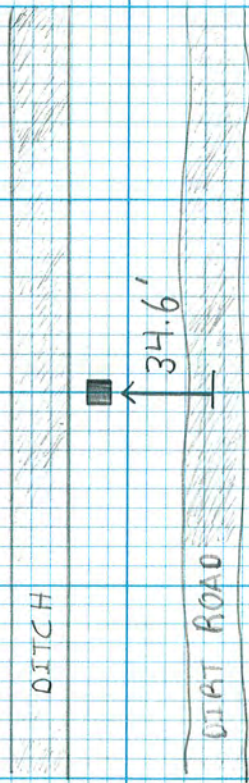


SEC 29,30 TWP 39 RNG 40

CONT PG 29

CAV 4

SET IP W/ CONC COLLAR SFWM D DISK
0.5' BELOW GND STAMPED "BM CAV 4 2014"

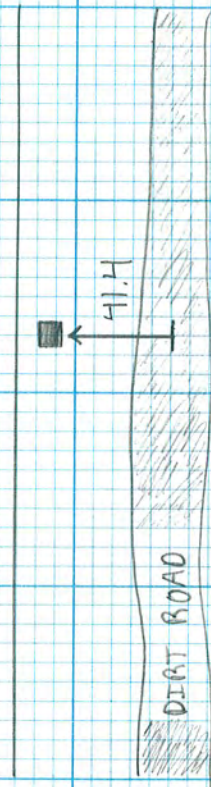


WATER FARM



CAV 5

SET IP W/ CONC COLLAR SFWM D DISK
0.6' BELOW GND STAMPED "BM CAV 5 2014"



ORANGE GROVE

WATER FARM

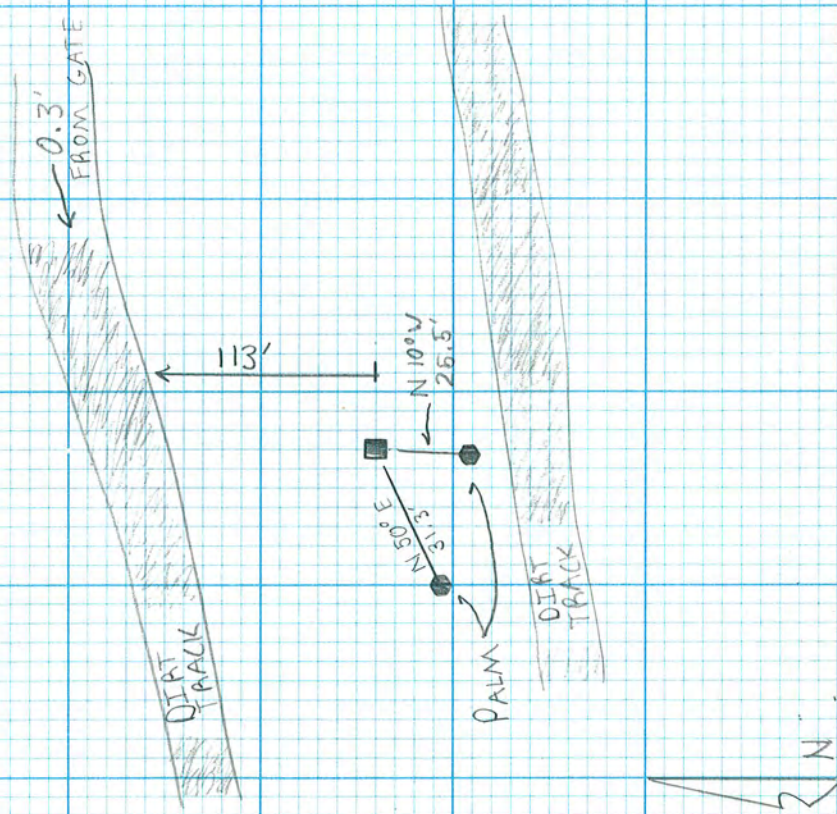


SEC 29,30 TWP 39 RNG 40

CONT PG 30

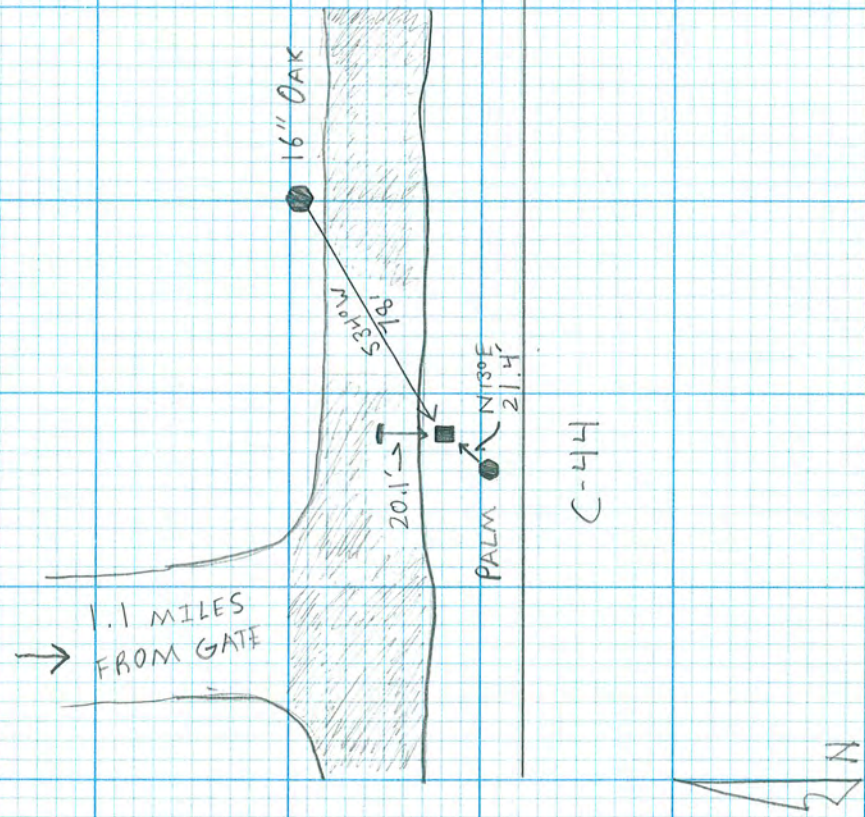
CAU 6

SET IP W/ CONC COLLAR SFW MD DISK
0.5' BELOW GND STAMPED "BM CAU 6 2014"



CAU 7

SET IP W/ CONC COLLAR SFW MD DISK
0.5' BELOW GND STAMPED "BM CAU 7 2014"

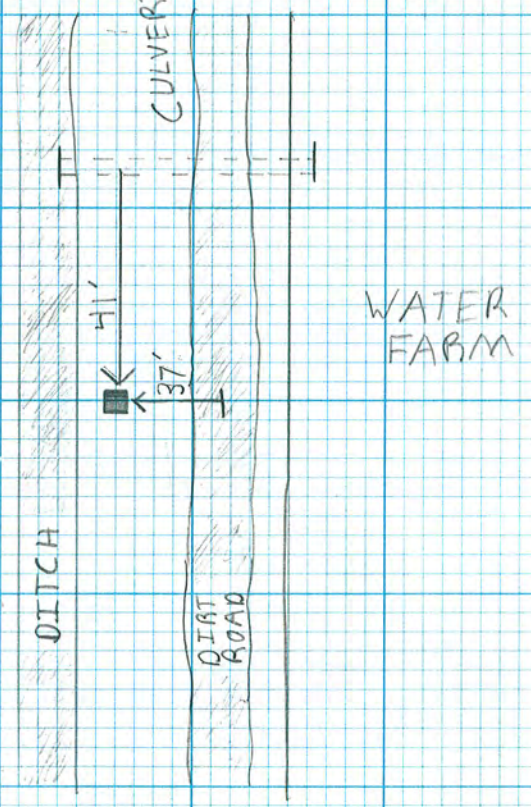


SEC 29, 30 TWP 39 RNG 40

CONT PG 31

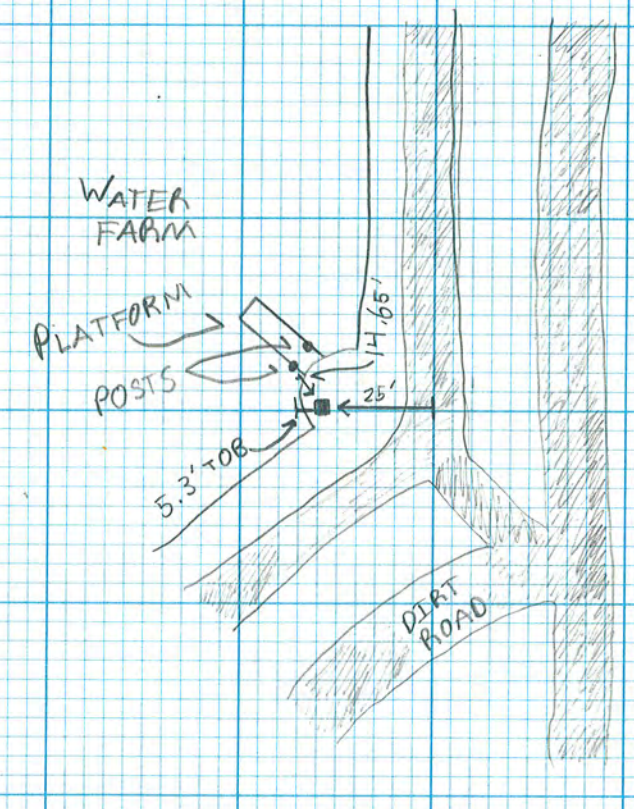
SG SW

SET IP w/ CONC COLLAR SFWMD DISK
0.6' BELOW GND STAMPED "BM CAU SG SW 2014"




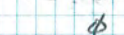
SG SE

SET IP w/ CONC COLLAR SFWMD DISK
0.5' BELOW GND STAMPED "BM CAU SG SE 2014"



SEC	29	TWP	39	RGE	40
	ESTABLISH WELLS @	ELEV.'S CAULKINS	ON WATER FARM	MONITORING ASPER	M. HAZAN
STA	+	HI	-	ELEV.	BM ELEV.
BM					24.76 (NAVD 88)
	10.75	35.51			
TBM			4.73	30.78	
TBM			11.55	23.96	
BM			10.75	24.76	24.76

WILD LEVEL SER # 215142

 STRICKLAND'S
 HUDSON

CAUZ WELL SITE

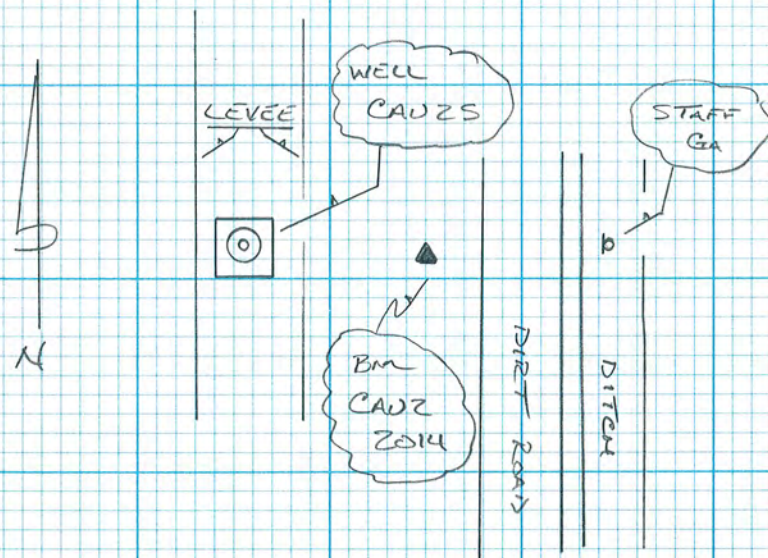
COMMENTS

BM CAUZ 2014 FD CM W/S FINN'S ALONG CAP STAMPED
 BM CAUZ 2014

TBM WELL ID# CAU-25 ATOP of 2" PVC PIPE "V" NOTCH
 ON NORTH SIDE of 2" PVC PIPE WELL LOCATED INSIDE a 2.5' x
 2.5' CONE SLAB w/ a 12" METAL ACCESS COVER ATOP of LEVEE

Top of WATER IN CANAL E of WELL STAFF GA READS 24.00

BM CAUZ 2014 AS ABOVE.



SEC	20	TWP	39	RGE	40
		CONT'D FROM PG. 33 CAUS WELL SITE			
STA	+	HI	-	ELEV	BM ELEV
BM					25.80 (NAVD 88)
	10.26	36.06			
TBM			5.12	30.94	
TBM			5.04	31.02	
TBM			4.96	31.10	
TBM			8.91	27.15	
BM		10.26		25.80	25.80

CAUS
3 WELLS @ THIS SITE

STRICKLANDS
& HUDSON

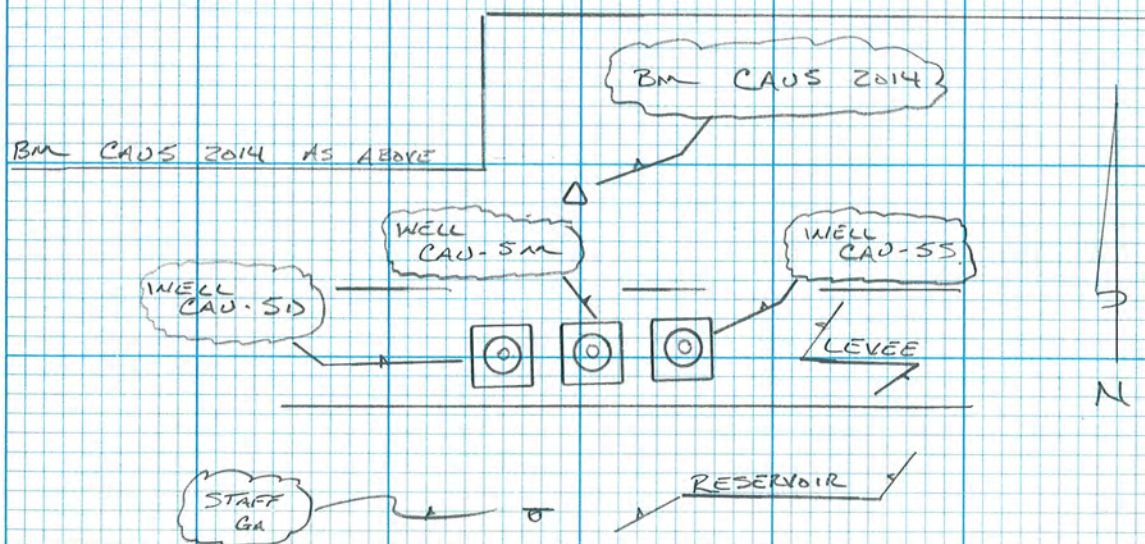
BM CAUS 2014 FD SEWERS ALUM CAP IN GOOD COND

TBM CAUS 55 WELL ID CAU-55 ATOP of 2" PVC PIPE
"V" NOTEN ON NORTH SIDE of 2" PVC PIPE WELL LOCATED INSIDE A
2.5' X 2.5' CONC SLAB W/A 12" METAL ACCESS COVER ATOP of
LEVEE

TBM CAUS 5M WELL ID CAU-5M AS DESCRIBED ABOVE
"V" NOTEN N. SIDE of 2" PVC PIPE

TBM CAUS 5D WELL ID CAU-5D AS DESCRIBED ABOVE
"V" NOTEN N. SIDE of 2" PVC PIPE

TOP of WATER IN RESERVOIR STAFF GA READS 27.15



SEC	30	TWP	39	RGE	40
		CONT'D FROM PG- 34			
		CAU 4 WELL SITE			
STA	+	HI	-	ELEV.	BM ELEV.
BM					26.29 (NAVD88)
	9.38				
TBM			5.15		
TBM					
BM			9.38		

STRICKLAND & HUDSON

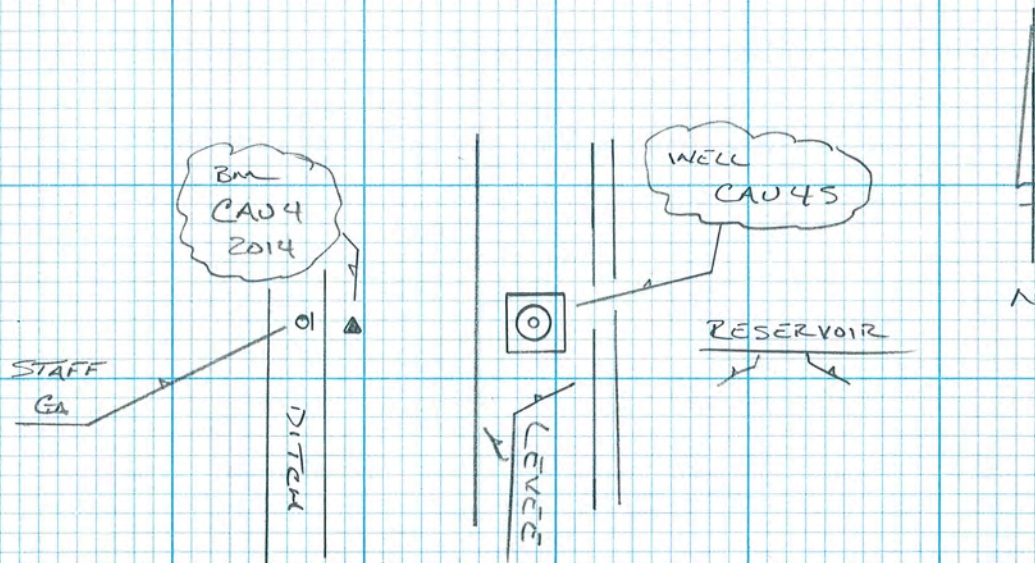
COMMENTS

BM CAU 4 2014 FD SFWM) ALONG CAP IN GOOD COND

TBM CAU 4 WELL IS CAU 45 AT TOP OF 2" PVC PIPE
"V" NOTEN ON NORTH SIDE OF 2" PVC PIPE WELL LOCATED INSIDE A
2.5' x 2.5' CONC SLAB W/A 12" METAL ACCESS COVER AT TOP
OF LEVEE

TOP OF WATER IN CANAL NOT ABLE TO OBTAIN STAFF GA READS 18.28

BM CAU 4 2014 AS ABOVE



SEC	29	TWP	39	RGE	40
		CONT'D FROM PG-35			
		CAU3 WELL SITE			
STA	+	HI	-	ELEV	BM ELEV
BM	5.94	32.73			26.79 (NAVD 88)
TBM		5.75		26.98	
GRND		5.5		27.23	
TOP W		8.60		24.13	
BM	5.94	32.73		26.79	26.79

STUCKLAND'S
OF HOUSON

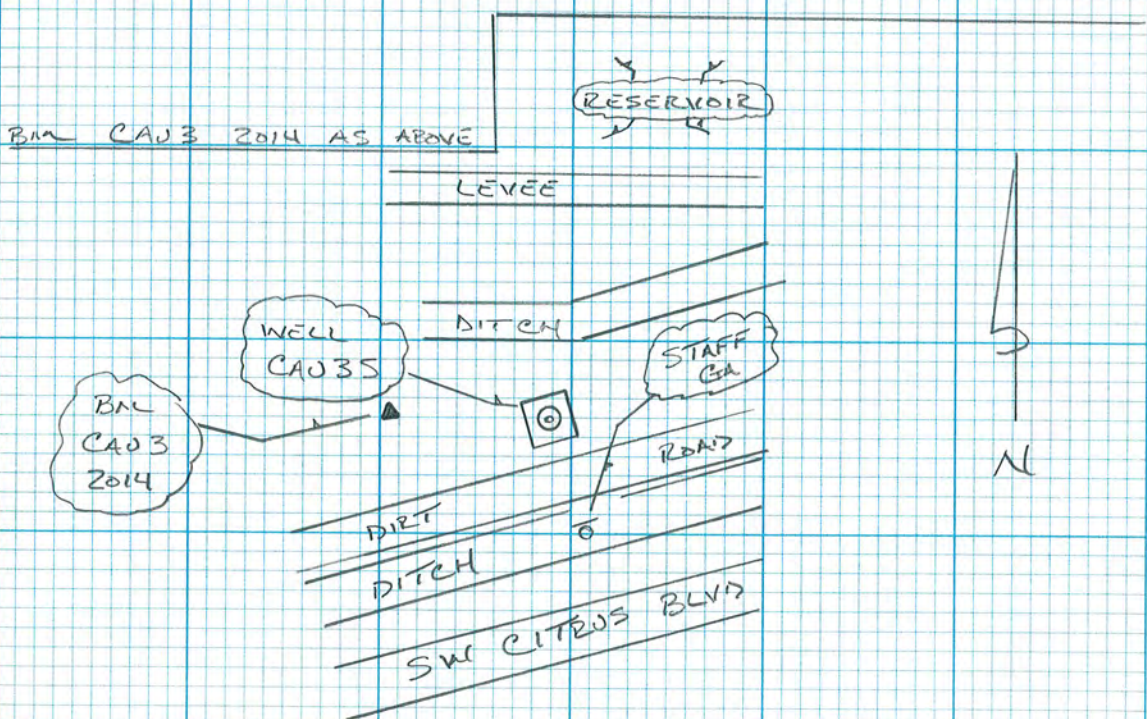
COMMENTS

BM CAU3 2014 FD STAINED ALUM CAP IN GRASS CANAL

TBM WELL IN CAU-35 AT TOP of 2" PVC PIPE "V" NOTCH ON NORTH SIDE of 2" PVC PIPE WELL LOCATED INSIDE A 2.5' X 2.5' CONC SLAB IN/A 12" METAL ACCESS COVER FLUSH w/ ROAD

GROUNDS @ WELL

TOP of WATER IN CANAL STAFF GA READS 24.10



SEC	31	TWP	39	RGE	40
		CONT'D	FROM PG-36		
		CAUT 7	WELL SITE		
STA	+	HI	-	ELEV	BM ELEV
BM	4.63	38.24			33.61 (NAVD88)
TBM			4.39	33.85	
TBM			4.32	33.92	
GRND			4.0	34.24	
BM			4.63	33.61	33.61

K II STEICKLAND
 & HOISSON

COMMENTS

BM CAUT 2014 FID SEWARD ALUM CAP IN GOOD COND

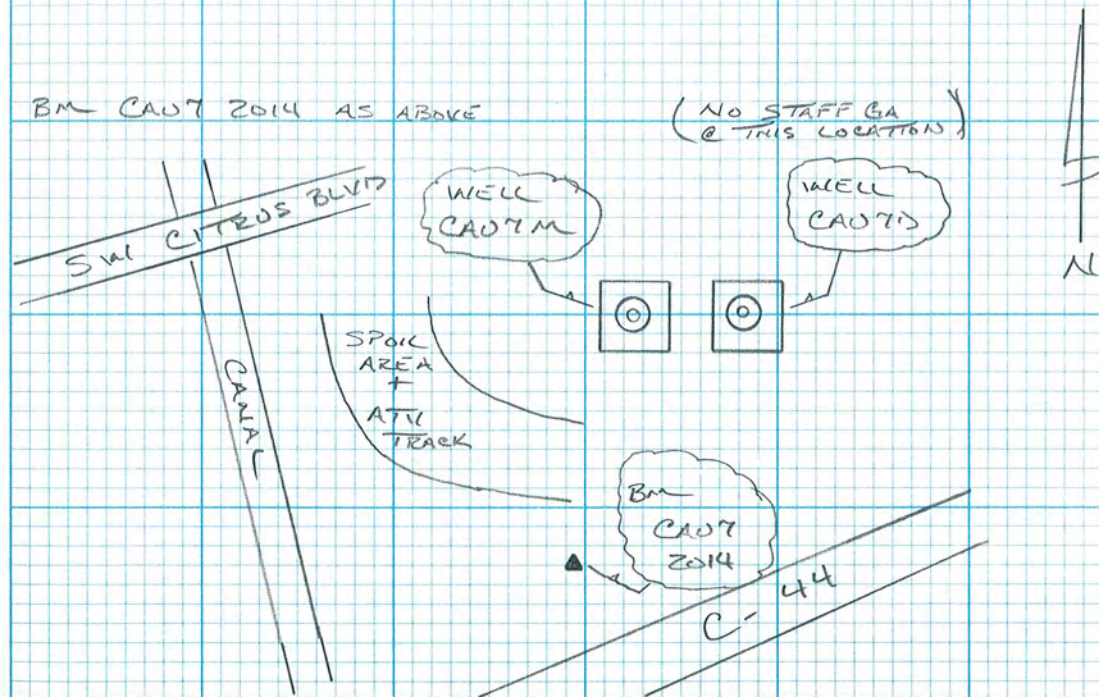
TBM CAUTM A TOP of 2" PVC PIPE "V" NOTEN ON NORTH SIDE OF 2" PVC PIPE WELL LOCATED INSIDE A 2.5' X 2.5' CONC SLAB W/ 12" METAL ACCESS COVER FLUSH W/ AREA

TBM CAUTM AS DESCRIBED ABOVE "V" NOTEN N. SIDE of 2" PVC PIPE

GROUNDS @ WELLS (BETWEEN THE TWO WELLS)

BM CAUT 2014 AS ABOVE

(NO STAFF GA @ THIS LOCATION)



SEC	TWP	RGE	40
29	39		
CONT'D FROM PG-37 CAUG WELL SITE			
STA	+	HI	-
ELEV.	BMELEV		
		39.41	(NAVD 88)
Bm	4.35		
TRM		5.43	
TRM		5.53	
GRD		5.1	
Bm		4.35	

STICKLAND
Hudson

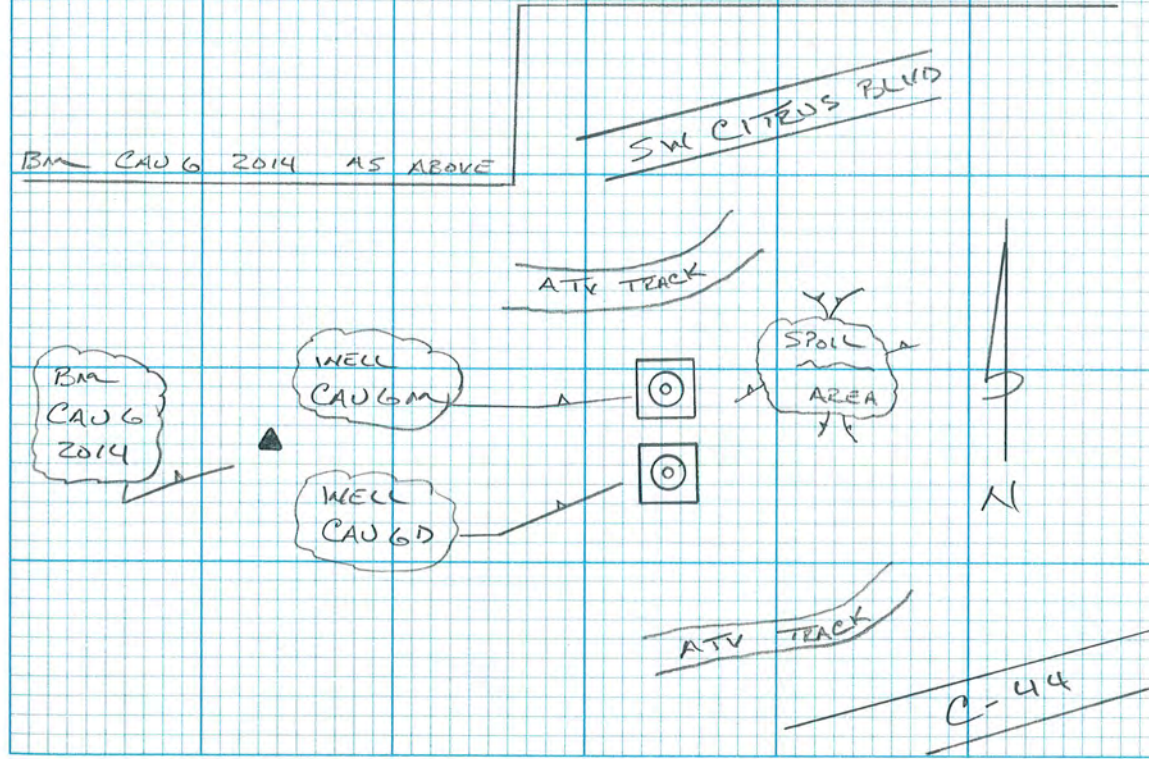
COMMENTS

Bm CAUG 2014 FID SEWARD ALUM CAP IN GOOD COND

TRM CAUGM ATOP of 2" PVC PIPE "V" NOTCH ON NORTH SIDE OF 2" PVC PIPE WELL LOCATED INSIDE A 2.5' X 2.5' CONC SLAB W/ A 12" METAL ACCESS COVER FLUSH W/ GROUND

TRM CAUGD AS DESCRIBED ABOVE
"V" NOTCH N. SIDE of 2" PVC PIPE

GROUND @ WELLS (BETWEEN THE TWO WELLS)



SEC	20, 29, 30	TWP	39	RGE	40
OBTAIN GROUND ELEV. @ 3 WELL SITES CAU 2, CAU 5 & CAU 4					
STA	+	HI	-	ELEV	BM ELEV.
BM CAU 2	11.13	35.89			24.76 (88)
GRND			4.7	31.19	
BM			11.13	24.76	24.76
BM CAU 5	10.55	36.35			25.80 (88)
GRND			5.0	31.35	
BM			10.55	25.80	25.80
BM CAU 4	9.52	35.81			26.29 (88)
GRND			4.9	30.91	
BM			9.52	26.29	

STEICKLAND
 & GIAMMARCO
 MAYER

COMMENTS
BM CAU 2 2014 PG-33 THIS BOOK
GRND @ WELL CAU 2 ATOP OF LEVEE
BM CAU 2 AS ABOVE
BM CAU 5 2014 PG-34
GRND @ WELLS CAU 5 ATOP OF LEVEE
BM CAU 5 AS ABOVE
BM CAU 4 2014 PG-35
GRND @ WELL ATOP OF LEVEE
BM CAU 4 AS ABOVE

SEC	20, 29, 30	TWP	39	RGE	40
OBTAIN GROUND ELEV @ 3 WELL SITES CAU 2, CAU 5 & CAU 4					
STA	+	HI	-	ELEV	BM ELEV.
BM CAU 2	11.13	35.89			24.76 (88)
GRND			4.7	31.19	
BM			11.13	24.76	24.76
BM CAU 5	10.55	36.35			25.80 (88)
GRND			5.0	31.35	
BM			10.55	25.80	25.80
BM CAU 4	9.52	35.81			26.29 (88)
GRND			4.9	30.91	
BM			9.52	26.29	

STICKLAND
GIAMMARCO
MAYER

COMMENTS
BM CAU 2 2014 PG-33 THIS BOOK
GRND @ WELL CAU 2 ATOP OF LEVEE
BM CAU 2 AS ABOVE
BM CAU 5 2014 PG-34
GRND @ WELLS CAU 5 ATOP OF LEVEE
BM CAU 5 AS ABOVE
BM CAU 4 2014 PG-35
GRND @ WELL ATOP OF LEVEE
BM CAU 4 AS ABOVE

SEC 20, 29, 30, 31 TWP 39 RGE 40

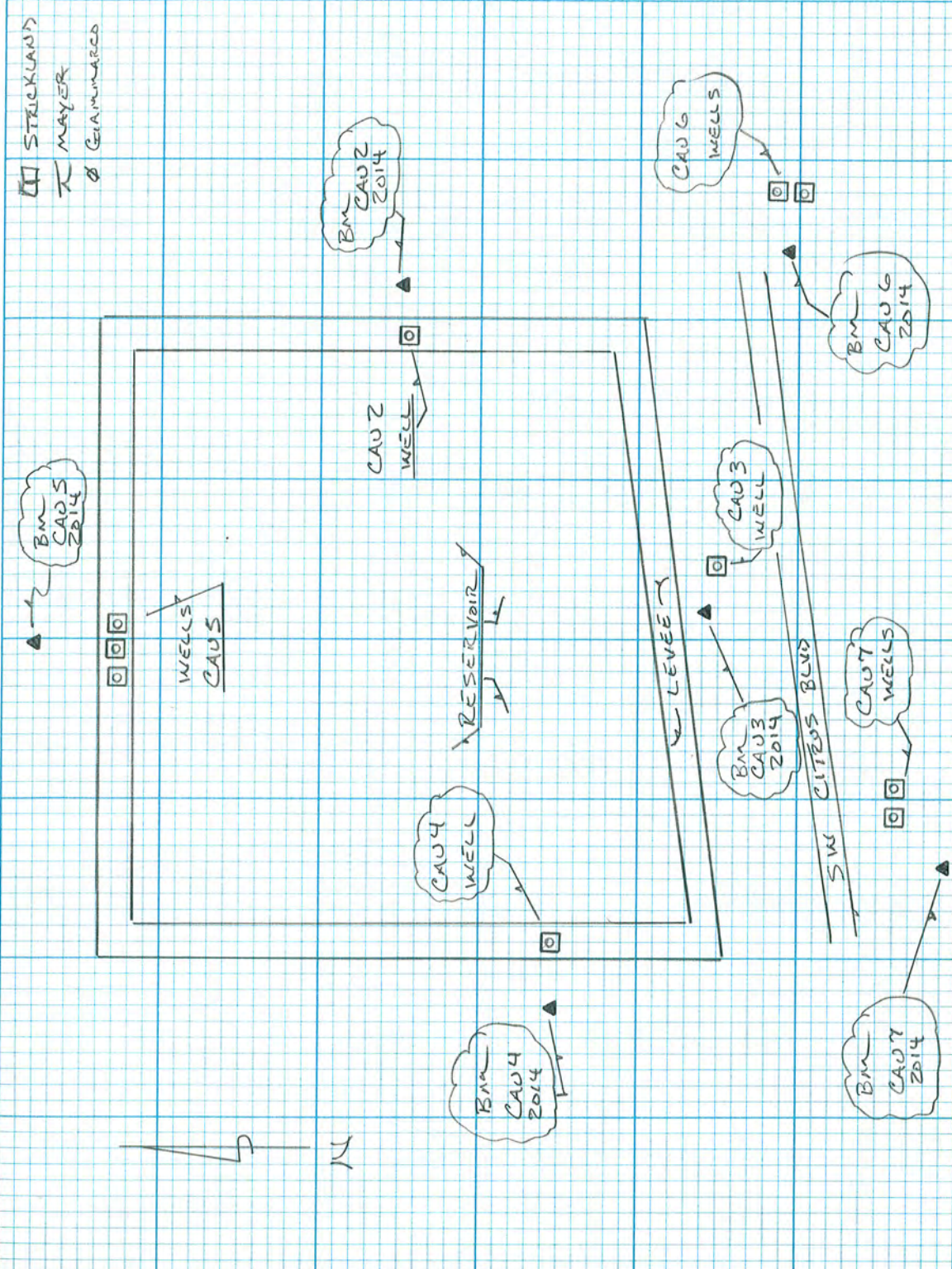
OBTAIN GPS LOCATION OF WELLS FROM PAGES 33-38 CAU SERIES USING FDOT FRPN

FILE NAME CAUCKINS
EQUIP.: TOPCON HYPER GA, SPECTRA-RANGER 3

FS START 100

FS END 111

CONTROL	PTE	H	V	N	E	CHECK PT
100	GCY 60C 70,504	✓		0.09	-0.08	CHECK PT
111	GCY 60C	✓		0.09	-0.08
101	CAU 2S					
102	CAU 5S					
103	CAU 5M					
104	" 5D					
105	" 4S					
106	" 3S					
107	" 6M					
108	" 6D					
109	" 7M					
110	" 7D					



SEC 29,30 TWP 39 RNG 40

CONT. CAULKINS WATER FARM - LEVEL RUN FOR
BM CAU1 + WELL SITES.

FILE: CAU1

PT	DESC	ELEV	BM	ADJUST
1	SG SE		30.41	
7	TBM	25.267		
1/13	SGSE	30.411		

HORIZONTAL LOCATIONS COLLECTED W/ GARMIN GPS 48

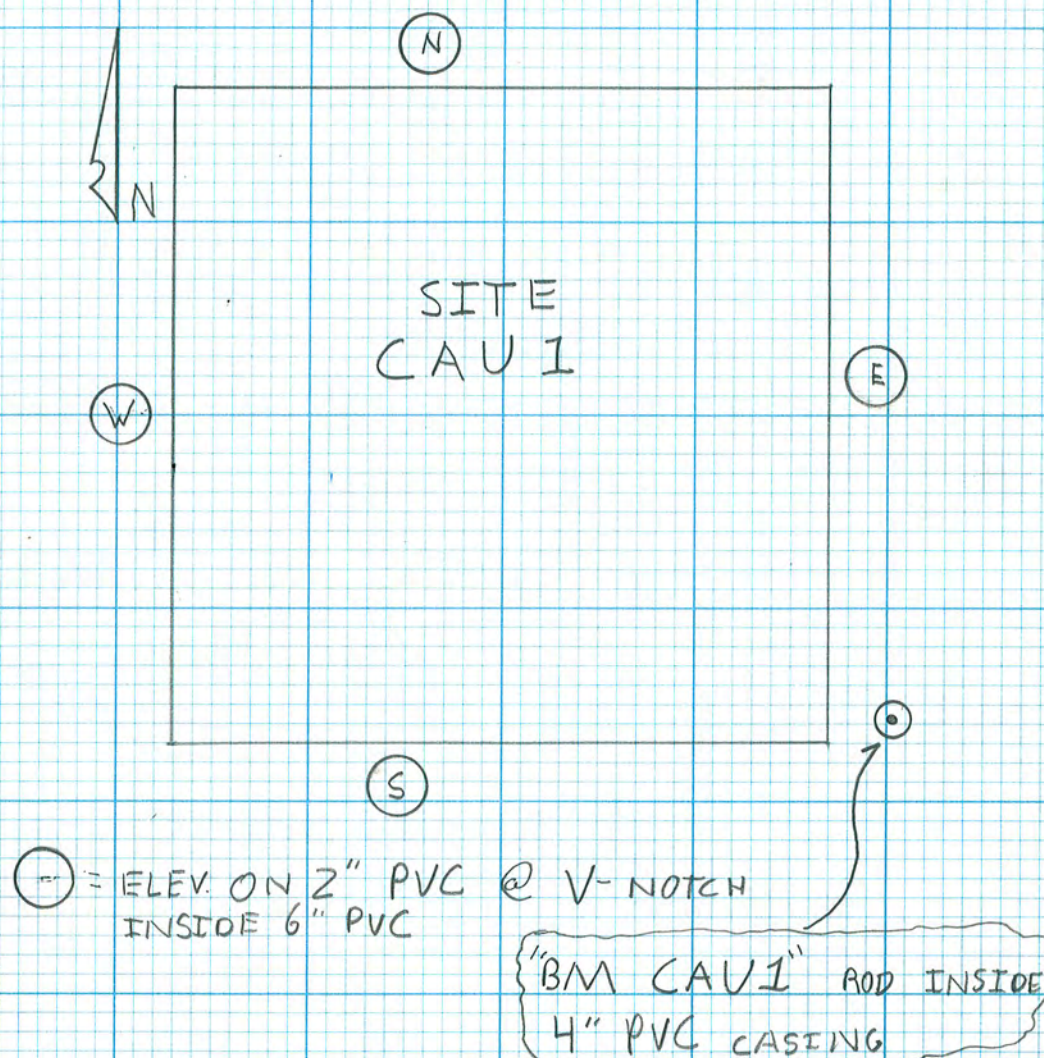
CAU1 + WELLS

N 27°03'08.9"

W 80°22'00.9"

CONT PG 42

R. KETT
E. EBANKS



CONT PG 41

STA	+	HI	-	ELEV	BM ELEV
TBM					25.27
	11.09	36.36			
N WELL			1.49	34.87	
N GRND			10.90	25.46	
E WELL			1.56	34.80	
E GRND			10.70	25.66	
S WELL			1.63	34.73	
S GRND			10.50	25.86	
W WELL			1.58	34.78	
W GRND			10.80	25.56	
CAU 1			4.69	31.67	
	4.66	36.33			
TBM			11.06	25.27	

IRC SET FOR BM CAU 1

V NOTCH ON 2" PVC

GROUND

V NOTCH

GROUND

V NOTCH

GROUND

V NOTCH

GROUND

BM CAU 1 PG 41

IRC

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: [CWF.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: 0.00000 ft
 Σ BS Distances: 741.970 ft
 Σ FS Distances: 735.700 ft
Run Length: 1477.670 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"/> 6.79500 ft			0.00000 ft	29.518 ft	0.00000 ft	29.518 ft ▲	Benchmark	184.910 ft	59A 3
<input type="checkbox"/>	2			<input checked="" type="checkbox"/> 4.93000 ft	1.86500 ft	31.383 ft	0.00000 ft	31.383 ft	Computed	182.810 ft	TP 3
	2	<input checked="" type="checkbox"/> 5.07500 ft								220.470 ft	TP 3
<input type="checkbox"/>	3			<input checked="" type="checkbox"/> 4.85100 ft	0.22400 ft	31.607 ft	0.00000 ft	31.607 ft	Computed	222.080 ft	TP 3
	3	<input checked="" type="checkbox"/> 3.89200 ft								198.130 ft	TP 3
<input type="checkbox"/>	4			<input checked="" type="checkbox"/> 7.71200 ft	-3.82000 ft	27.787 ft	0.00000 ft	27.787 ft	Computed	197.280 ft	TP 3
	4	<input checked="" type="checkbox"/> 4.63500 ft								89.670 ft	TP 3
<input type="checkbox"/>	5			<input checked="" type="checkbox"/> 5.22300 ft	-0.58800 ft	27.199 ft	0.00000 ft	27.199 ft	Computed	89.670 ft	SGSW 3
	5	<input checked="" type="checkbox"/> 5.58100 ft								48.790 ft	SGSW 3
<input checked="" type="checkbox"/>	6			<input checked="" type="checkbox"/> 5.28600 ft	0.29500 ft	27.494 ft	0.00000 ft	27.494 ft ▲	Benchmark	43.860 ft	59B 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
1-6 (E1)	Enabled	-2.02400 ft	0.00000 ft	-2.02400 ft	5	1477.670 ft	25.97800 ft	28.00200 ft	0.01896 ft

Run - 1 (N1) Reduced Coordinates

Point ID	Status	Elevation
1	Enabled	29.51800 ft
6	Enabled	27.49400 ft


Run - 2 Raw Observations

Raw Misclosure: -0.00100 ft
 Σ BS Distances: 1285.650 ft
 Σ FS Distances: 1284.980 ft
 Run Length: 2570.630 ft
 Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	6	<input checked="" type="checkbox"/> 7.40200 ft			0.00000 ft	27.494 ft	0.00000 ft	27.494 ft ▲	Benchmark	216.400 ft	59B 3
<input type="checkbox"/>	7			<input checked="" type="checkbox"/> 3.59700 ft	3.80500 ft	31.299 ft	0.00016 ft	31.299 ft	Computed	207.680 ft	TP 3
	7	<input checked="" type="checkbox"/> 4.60400 ft								217.850 ft	TP 3
<input type="checkbox"/>	8			<input checked="" type="checkbox"/> 4.88200 ft	-0.27800 ft	31.021 ft	0.00033 ft	31.021 ft	Computed	216.140 ft	TP 3
	8	<input checked="" type="checkbox"/> 2.90600 ft								218.240 ft	TP 3
<input type="checkbox"/>	9			<input checked="" type="checkbox"/> 7.63400 ft	-4.72800 ft	26.293 ft	0.00050 ft	26.294 ft	Computed	209.450 ft	CAU4 3
	9	<input checked="" type="checkbox"/> 7.57100 ft								209.480 ft	CAU4 3
<input type="checkbox"/>	10			<input checked="" type="checkbox"/> 2.89300 ft	4.67800 ft	30.971 ft	0.00067 ft	30.972 ft	Computed	217.750 ft	TP 3
	10	<input checked="" type="checkbox"/> 4.82900 ft								216.270 ft	TP 3
<input type="checkbox"/>	11			<input checked="" type="checkbox"/> 4.40900 ft	0.42000 ft	31.391 ft	0.00084 ft	31.392 ft	Computed	218.110 ft	TP 3
	11	<input checked="" type="checkbox"/> 3.63600 ft								207.410 ft	TP 3
	6			<input checked="" type="checkbox"/> 7.53400 ft	-3.89800 ft	27.493 ft	0.00100 ft	27.494 ft ▲	Benchmark	215.850 ft	59B 3

Run - 2 (N2) Reduced Observations

	Raw Δ	Final Δ	Σ BS	Σ FS	Std.
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Observation	Status	Elevation	Correction	Elevation	Setups	Length	Readings	Readings	Error
 6-6 (E2)	Enabled	-0.00100 ft	0.00100 ft	0.00000 ft	6	2570.630 ft	30.94800 ft	30.94900 ft	0.02738 ft

Run - 3 Raw Observations

Raw Misclosure: -0.00200 ft

Σ BS Distances: 819.680 ft


Σ FS Distances: 822.870 ft

Run Length: 1642.550 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"/> 8.23800 ft			0.00000 ft	29.518 ft	0.00000 ft	29.518 ft ▲	Benchmark	152.200 ft	59A 3
<input type="checkbox"/>	13			<input checked="" type="checkbox"/> 1.52100 ft	6.71700 ft	36.235 ft	0.00037 ft	36.235 ft	Computed	150.690 ft	TP 3
	13	<input checked="" type="checkbox"/> 4.60700 ft								182.580 ft	TP 3
<input type="checkbox"/>	14			<input checked="" type="checkbox"/> 4.13900 ft	0.46800 ft	36.703 ft	0.00091 ft	36.704 ft	Computed	187.700 ft	TP 3
	14	<input checked="" type="checkbox"/> 3.44000 ft								63.290 ft	TP 3
<input type="checkbox"/>	15			<input checked="" type="checkbox"/> 6.53500 ft	-3.09500 ft	33.608 ft	0.00100 ft	33.609 ft	Computed	84.710 ft	CAU7 3
	15	<input checked="" type="checkbox"/> 6.45700 ft								84.280 ft	CAU7 3
<input type="checkbox"/>	16			<input checked="" type="checkbox"/> 3.42600 ft	3.03100 ft	36.639 ft	0.00109 ft	36.640 ft	Computed	63.550 ft	TP 3
	16	<input checked="" type="checkbox"/> 4.24800 ft								186.150 ft	TP 3
<input type="checkbox"/>	17			<input checked="" type="checkbox"/> 4.71600 ft	-0.46800 ft	36.171 ft	0.00163 ft	36.173 ft	Computed	183.630 ft	TP 3
	17	<input checked="" type="checkbox"/> 1.80000 ft								151.180 ft	TP 3
	1			<input checked="" type="checkbox"/> 8.45500 ft	-6.65500 ft	29.516 ft	0.00200 ft	29.518 ft ▲	Benchmark	152.590 ft	59A 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
 1-1 (E3)	Enabled	-0.00200 ft	0.00200 ft	0.00000 ft	6	1642.550 ft	28.79000 ft	28.79200 ft	0.01848 ft

Run - 4 Raw Observations

Raw Misclosure: 0.00900 ft
Σ BS Distances: 2367.630 ft
Σ FS Distances: 2365.860 ft
Run Length: 4733.490 ft
Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/> 6.63800 ft			0.00000 ft	29.518 ft	0.00000 ft	29.518 ft ▲	Benchmark	192.550 ft	59A 3
<input type="checkbox"/>	19			<input checked="" type="checkbox"/> 8.51400 ft	-1.87600 ft	27.642 ft	-0.00067 ft	27.641 ft	Computed	189.890 ft	TP 3
	19	<input checked="" type="checkbox"/> 4.90700 ft								211.610 ft	TP 3
<input type="checkbox"/>	20			<input checked="" type="checkbox"/> 4.75200 ft	0.15500 ft	27.797 ft	-0.00145 ft	27.796 ft	Computed	203.120 ft	TP 3
	20	<input checked="" type="checkbox"/> 5.04400 ft								224.470 ft	TP 3
<input type="checkbox"/>	21			<input checked="" type="checkbox"/> 5.28800 ft	-0.24400 ft	27.553 ft	-0.00239 ft	27.551 ft	Computed	228.080 ft	TP 3
	21	<input checked="" type="checkbox"/> 5.03400 ft								227.850 ft	TP 3
<input type="checkbox"/>	22			<input checked="" type="checkbox"/> 5.06900 ft	-0.03500 ft	27.518 ft	-0.00333 ft	27.515 ft	Computed	227.920 ft	TP 3
	22	<input checked="" type="checkbox"/> 5.00200 ft								232.020 ft	TP 3
<input type="checkbox"/>	23			<input checked="" type="checkbox"/> 5.42200 ft	-0.42000 ft	27.098 ft	-0.00433 ft	27.094 ft	Computed	234.050 ft	TP 3
	23	<input checked="" type="checkbox"/> 5.11200 ft								96.780 ft	TP 3
<input type="checkbox"/>	24			<input checked="" type="checkbox"/> 5.41900 ft	-0.30700 ft	26.791 ft	-0.00450 ft	26.787 ft	Computed	98.200 ft	CAU3 3
	24	<input checked="" type="checkbox"/> 5.30800 ft								98.360 ft	CAU3 3
<input type="checkbox"/>	25			<input checked="" type="checkbox"/> 5.00000 ft	0.30800 ft	27.099 ft	-0.00467 ft	27.094 ft	Computed	96.550 ft	TP 3
	25	<input checked="" type="checkbox"/> 5.38100 ft								232.810 ft	TP 3
<input type="checkbox"/>	26			<input checked="" type="checkbox"/> 5.04400 ft	0.33700 ft	27.436 ft	-0.00566 ft	27.430 ft	Computed	231.790 ft	TP 3
	26	<input checked="" type="checkbox"/> 5.11200 ft								228.480 ft	TP 3
<input type="checkbox"/>	27			<input checked="" type="checkbox"/> 5.00000 ft	0.11200 ft	27.548 ft	-0.00661 ft	27.541 ft	Computed	227.850 ft	TP 3
	27	<input checked="" type="checkbox"/> 5.35400 ft								227.720 ft	TP 3
<input type="checkbox"/>	28			<input checked="" type="checkbox"/> 5.15500 ft	0.19900 ft	27.747 ft	-0.00754 ft	27.739 ft	Computed	225.260 ft	TP 3
	28	<input checked="" type="checkbox"/> 4.70300 ft								203.310 ft	TP 3

<input type="checkbox"/>	29		<input checked="" type="checkbox"/> 4.59600 ft	0.10700 ft	27.854 ft	-0.00833 ft	27.846 ft	Computed	211.290 ft	TP 3
	29	<input checked="" type="checkbox"/> 8.17900 ft							191.670 ft	TP 3
	1		<input checked="" type="checkbox"/> 6.50600 ft	1.67300 ft	29.527 ft	-0.00900 ft	29.518 ft ▲	Benchmark	191.860 ft	59A 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
1-1 (E4)	Enabled	0.00900 ft	-0.00900 ft	0.00000 ft	12	4733.490 ft	65.77400 ft	65.76500 ft	0.03664 ft

Run - 5 Raw Observations

Raw Misclosure: 0.01400 ft
 Σ BS Distances: 1628.230 ft
 Σ FS Distances: 1601.790 ft
 Run Length: 3230.020 ft
 Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	31	<input checked="" type="checkbox"/> 3.96700 ft			0.00000 ft	27.881 ft	0.00000 ft	27.881 ft ▲	Benchmark	219.060 ft	60B 3
<input type="checkbox"/>	32			<input checked="" type="checkbox"/> 5.48500 ft	-1.51800 ft	26.363 ft	-0.00205 ft	26.361 ft	Computed	220.700 ft	TP 3
	32	<input checked="" type="checkbox"/> 4.06400 ft								219.520 ft	TP 3
<input type="checkbox"/>	33			<input checked="" type="checkbox"/> 4.38700 ft	-0.32300 ft	26.040 ft	-0.00406 ft	26.036 ft	Computed	215.880 ft	TP 3
	33	<input checked="" type="checkbox"/> 4.22300 ft								223.360 ft	TP 3
<input type="checkbox"/>	34			<input checked="" type="checkbox"/> 4.95400 ft	-0.73100 ft	25.309 ft	-0.00621 ft	25.303 ft	Computed	227.300 ft	TP 3
	34	<input checked="" type="checkbox"/> 5.91900 ft								171.720 ft	TP 3
<input type="checkbox"/>	35			<input checked="" type="checkbox"/> 6.45600 ft	-0.53700 ft	24.772 ft	-0.00743 ft	24.765 ft	Computed	168.370 ft	CAU2 3
	35	<input checked="" type="checkbox"/> 6.10000 ft								231.100 ft	CAU2 3
<input type="checkbox"/>	36			<input checked="" type="checkbox"/> 3.43500 ft	2.66500 ft	27.437 ft	-0.00966 ft	27.427 ft	Computed	227.260 ft	TP 3
	36	<input checked="" type="checkbox"/> 8.64400 ft								227.620 ft	TP 3
<input type="checkbox"/>	37			<input checked="" type="checkbox"/> 4.31300 ft	4.33100 ft	31.768 ft	-0.01166 ft	31.756 ft	Computed	207.250 ft	TP 3
	37	<input checked="" type="checkbox"/> 4.50600 ft								219.290 ft	TP 3

<input type="checkbox"/>	38		<input checked="" type="checkbox"/>	5.03600 ft	-0.53000 ft	31.238 ft	-0.01371 ft	31.224 ft	Computed	220.440 ft	TP 3
	38	<input checked="" type="checkbox"/>	2.10500 ft							66.400 ft	TP 3
<input type="checkbox"/>	39		<input checked="" type="checkbox"/>	2.91500 ft	-0.81000 ft	30.428 ft	-0.01390 ft	30.414 ft	Computed	66.760 ft	SGSE 3
	39	<input checked="" type="checkbox"/>	2.39300 ft							50.160 ft	SGSE 3
<input checked="" type="checkbox"/>	40		<input checked="" type="checkbox"/>	5.96100 ft	-3.56800 ft	26.860 ft	-0.01400 ft	26.846 ft ▲	Benchmark	47.830 ft	60C 3

Run - 5 (N5) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
31-40 (E5)	Enabled	-1.02100 ft	-0.01400 ft	-1.03500 ft	9	3230.020 ft	41.92100 ft	42.94200 ft	0.02999 ft

Run - 5 (N5) Reduced Coordinates

Point ID	Status	Elevation
31	Enabled	27.88100 ft
40	Enabled	26.84600 ft

Run - 6 Raw Observations

Raw Misclosure: 0.00400 ft
 Σ BS Distances: 1101.050 ft
 Σ FS Distances: 1099.800 ft
 Run Length: 2200.850 ft
 Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	40	<input checked="" type="checkbox"/>			0.00000 ft	26.846 ft	0.00000 ft	26.846 ft ▲	Benchmark	216.800 ft	60C 3
<input type="checkbox"/>	41			<input checked="" type="checkbox"/>	2.09100 ft	28.937 ft	-0.00099 ft	28.936 ft	Computed	211.880 ft	TP 3
	41	<input checked="" type="checkbox"/>								183.370 ft	TP 3
<input type="checkbox"/>	42			<input checked="" type="checkbox"/>	7.22700 ft	36.164 ft	-0.00169 ft	36.162 ft	Computed	176.670 ft	TP 3
	42	<input checked="" type="checkbox"/>								113.840 ft	TP 3
<input type="checkbox"/>	43			<input checked="" type="checkbox"/>	1.17700 ft	37.341 ft	-0.00195 ft	37.339 ft	Computed	105.480 ft	TP 3
	43	<input checked="" type="checkbox"/>								44.950 ft	TP 3
<input type="checkbox"/>	44			<input checked="" type="checkbox"/>	2.07300 ft	39.414 ft	-0.00200 ft	39.412 ft	Computed	46.850 ft	CAU 6 3

	44	<input checked="" type="checkbox"/>	4.09900 ft							47.210 ft	CAU6 3	
<input type="checkbox"/>	45			<input checked="" type="checkbox"/>	6.22100 ft	-2.12200 ft	37.292 ft	-0.00204 ft	37.290 ft	Computed	44.420 ft	TP 3
	45	<input checked="" type="checkbox"/>	5.98900 ft								105.350 ft	TP 3
<input type="checkbox"/>	46			<input checked="" type="checkbox"/>	7.14200 ft	-1.15300 ft	36.139 ft	-0.00230 ft	36.137 ft	Computed	114.370 ft	TP 3
	46	<input checked="" type="checkbox"/>	1.29100 ft								176.670 ft	TP 3
<input type="checkbox"/>	47			<input checked="" type="checkbox"/>	8.24700 ft	-6.95600 ft	29.183 ft	-0.00300 ft	29.180 ft	Computed	182.550 ft	TP 3
	47	<input checked="" type="checkbox"/>	2.85700 ft								212.860 ft	TP 3
<input checked="" type="checkbox"/>	48			<input checked="" type="checkbox"/>	5.19000 ft	-2.33300 ft	26.850 ft	-0.00400 ft	26.846 ft ▲	Benchmark	217.580 ft	60C 3

Run - 6 (N6) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
40-48 (E6)	Enabled	0.00400 ft	-0.00400 ft	0.00000 ft	8	2200.850 ft	40.75100 ft	40.74700 ft	0.02246 ft

Run - 6 (N6) Reduced Coordinates

Point ID	Status	Elevation
48	Enabled	26.84600 ft

Run - 7 Raw Observations

Raw Misclosure: 0.00200 ft
 Σ BS Distances: 2260.920 ft
 Σ FS Distances: 2261.230 ft
 Run Length: 4522.150 ft
 Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description	
<input checked="" type="checkbox"/>	31	<input checked="" type="checkbox"/>			0.00000 ft	27.881 ft	0.00000 ft	27.881 ft ▲	Benchmark	216.670 ft	60B 3	
<input type="checkbox"/>	49			<input checked="" type="checkbox"/>	7.15500 ft	-0.38600 ft	27.495 ft	-0.00018 ft	27.495 ft	Computed	212.400 ft	TP 3
	49	<input checked="" type="checkbox"/>			3.62200 ft						223.950 ft	TP 3
<input type="checkbox"/>	50			<input checked="" type="checkbox"/>	4.79000 ft	-1.16800 ft	26.327 ft	-0.00038 ft	26.327 ft	Computed	226.740 ft	TP 3
	50	<input checked="" type="checkbox"/>			5.11300 ft						229.230 ft	TP 3
<input type="checkbox"/>	51			<input checked="" type="checkbox"/>	4.83700	0.27600	26.603 ft	-0.00058 ft	26.602 ft	Computed	224.080	TP 3

				ft	ft					ft	
	51	<input checked="" type="checkbox"/>	4.78800 ft							228.510 ft	TP 3
<input type="checkbox"/>	52			<input checked="" type="checkbox"/>	4.27800 ft	0.51000 ft	27.113 ft	-0.00077 ft	27.112 ft	Computed	211.290 ft TP 3
	52	<input checked="" type="checkbox"/>	4.30800 ft								245.010 ft TP 3
<input type="checkbox"/>	53			<input checked="" type="checkbox"/>	5.62000 ft	-1.31200 ft	25.801 ft	-0.00100 ft	25.800 ft	Computed	243.670 ft CAU5 3
	53	<input checked="" type="checkbox"/>	5.61800 ft								243.860 ft CAU5 3
<input type="checkbox"/>	54			<input checked="" type="checkbox"/>	4.30700 ft	1.31100 ft	27.112 ft	-0.00123 ft	27.111 ft	Computed	245.470 ft TP 3
	54	<input checked="" type="checkbox"/>	4.29200 ft								211.150 ft TP 3
<input type="checkbox"/>	55			<input checked="" type="checkbox"/>	4.82900 ft	-0.53700 ft	26.575 ft	-0.00142 ft	26.574 ft	Computed	228.350 ft TP 3
	55	<input checked="" type="checkbox"/>	4.89400 ft								223.820 ft TP 3
<input type="checkbox"/>	56			<input checked="" type="checkbox"/>	5.16200 ft	-0.26800 ft	26.307 ft	-0.00162 ft	26.305 ft	Computed	229.300 ft TP 3
	56	<input checked="" type="checkbox"/>	4.73900 ft								226.610 ft TP 3
<input type="checkbox"/>	57			<input checked="" type="checkbox"/>	3.01000 ft	1.72900 ft	28.036 ft	-0.00182 ft	28.034 ft	Computed	223.230 ft TP 3
	57	<input checked="" type="checkbox"/>	6.60500 ft								212.110 ft TP 3
	31			<input checked="" type="checkbox"/>	6.75800 ft	-0.15300 ft	27.883 ft	-0.00200 ft	27.881 ft ▲	Benchmark	216.700 ft 60B 3

Run - 7 (N7) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
31-31 (E7)	Enabled	0.00200 ft	-0.00200 ft	0.00000 ft	10	4522.150 ft	50.74800 ft	50.74600 ft	0.03734 ft

Date: 8/20/2014 3:43:28 PM	Project:	Trimble Business Center
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Project Information		Coordinate System	
Name:	C:\Users\rkett\Desktop\CAU1Project.vce	Name:	Default
Size:	106 KB	Datum:	WGS 1984
Modified:	2/18/2015 9:56:37 AM (UTC:-5)	Zone:	Default
Time zone:	Eastern Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:			

Level Report

Imported file: [CAU1.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: 0.00300 ft
Σ BS Distances: 2276.500 ft
Σ FS Distances: 2271.020 ft
Run Length: 4547.520 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"/> 2.27500 ft			0.00000 ft	30.410 ft	0.00000 ft	30.410 ft	Benchmark	131.990 ft	SG SE 3
<input type="checkbox"/>	2			<input checked="" type="checkbox"/> 6.51200 ft	-4.23700 ft	26.173 ft	-0.00013 ft	26.173 ft	Computed	145.310 ft	3
	2	<input checked="" type="checkbox"/> 2.67900 ft								207.870 ft	3
<input type="checkbox"/>	3			<input checked="" type="checkbox"/> 3.35800 ft	-0.67900 ft	25.494 ft	-0.00042 ft	25.494 ft	Computed	206.690 ft	3
	3	<input checked="" type="checkbox"/> 3.62100 ft								210.560 ft	3
<input type="checkbox"/>	4			<input checked="" type="checkbox"/> 3.72900 ft	-0.10800 ft	25.386 ft	-0.00072 ft	25.385 ft	Computed	206.430 ft	3
	4	<input checked="" type="checkbox"/> 3.96000 ft								213.810 ft	3
<input type="checkbox"/>	5			<input checked="" type="checkbox"/> 3.30300 ft	0.65700 ft	26.043 ft	-0.00102 ft	26.042 ft	Computed	210.600 ft	3
	5	<input checked="" type="checkbox"/> 4.28300 ft								210.890 ft	3
<input type="checkbox"/>	6					26.038 ft	-0.00133 ft	26.037 ft	Computed		3

			✓ 4.28800 ft	-0.00500 ft						213.980 ft	
	6	✓ 3.85500 ft								155.840 ft	3
<input type="checkbox"/>	7		✓ 4.62600 ft	-0.77100 ft	25.267 ft	-0.00150 ft	25.265 ft	Computed		160.040 ft	TBM 3
	7	✓ 4.48100 ft								160.140 ft	TBM 3
<input type="checkbox"/>	8		✓ 3.71100 ft	0.77000 ft	26.037 ft	-0.00167 ft	26.035 ft	Computed		155.180 ft	3
	8	✓ 4.26100 ft								213.090 ft	3
<input type="checkbox"/>	9		✓ 4.41900 ft	-0.15800 ft	25.879 ft	-0.00197 ft	25.877 ft	Computed		210.760 ft	3
	9	✓ 3.57100 ft								211.520 ft	3
<input type="checkbox"/>	10		✓ 4.24400 ft	-0.67300 ft	25.206 ft	-0.00228 ft	25.204 ft	Computed		212.530 ft	3
	10	✓ 3.90800 ft								207.740 ft	3
<input type="checkbox"/>	11		✓ 3.82800 ft	0.08000 ft	25.286 ft	-0.00258 ft	25.283 ft	Computed		209.840 ft	3
	11	✓ 3.49200 ft								206.530 ft	3
<input type="checkbox"/>	12		✓ 2.95700 ft	0.53500 ft	25.821 ft	-0.00287 ft	25.818 ft	Computed		208.230 ft	3
	12	✓ 7.74300 ft								146.520 ft	3
	1		✓ 3.15100 ft	4.59200 ft	30.413 ft	-0.00300 ft	30.410 ft	Benchmark		131.430 ft	3

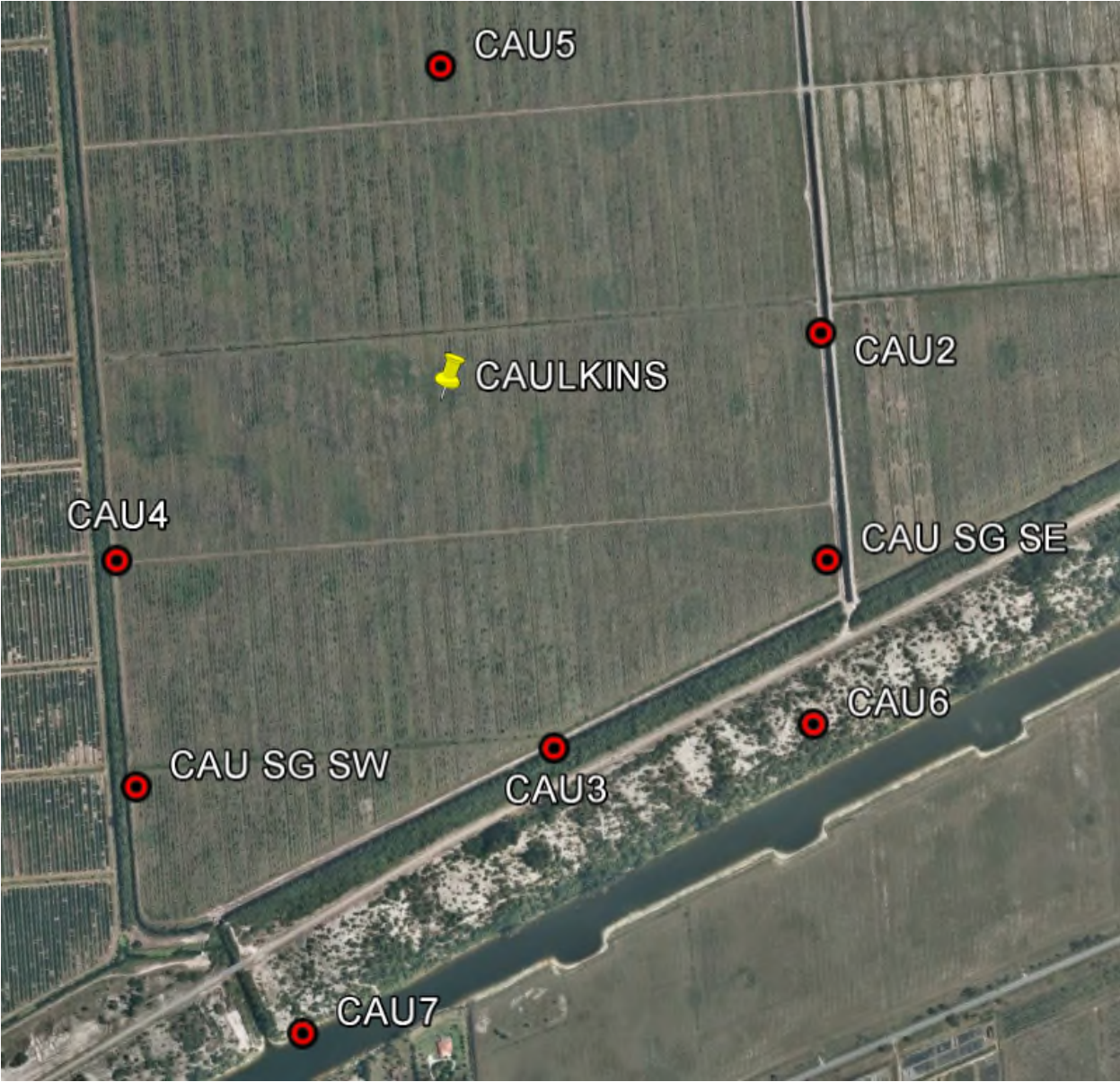
Run - 1 (N1) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
1-1 (E1)	Enabled	0.00300 ft	-0.00300 ft	0.00000 ft	12	4547.520 ft	48.12900 ft	48.12600 ft	0.03466 ft

Run - 1 (N1) Reduced Coordinates

Point ID	Status	Elevation
1	Enabled	30.41000 ft

Date: 2/18/2015 9:58:50 AM	Project: C:\Users\rkett\Desktop\CAU1Project.vce	Trimble Business Center
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SOUTH FLORIDA WATER MANAGEMENT DISTRICT

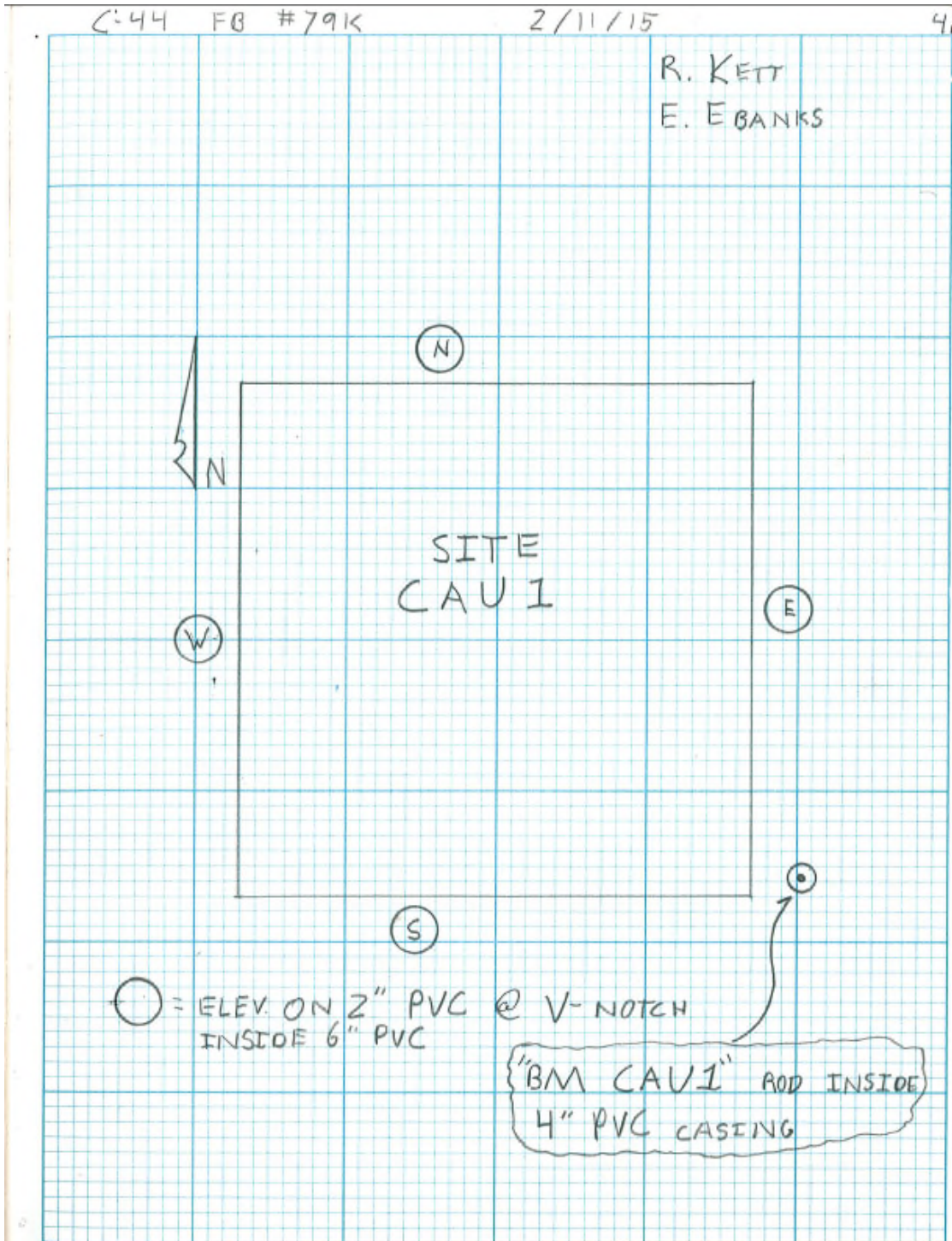
Rev. 4/08

COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU1
SECTION 29	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 2/11/15 (Established)		FIELD BOOK C-44 79K PAGE 41-42
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 988,763 ft	E 862,218 ft
LATITUDE: N 27° 03' 08.9"	LONGITUDE: W 80° 22' 00.9"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)	EL. 31.67 ft	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)	EL. ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>To Reach:</p> <p>FROM THE POST OFFICE LOCATED IN INDIANTOWN, FLORIDA, PROCEED SOUTHEASTERLY ALONG STATE ROAD 710 A DISTANCE OF 0.5 MI TO THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, THEN GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.1 MI TO A DIRT ROAD ON THE NORTH SIDE OF C.R. 726 AND A GATE, GO NORTHWESTERLY 130 FT +/- TO A FORK IN THE DIRT ROAD, PROCEED DOWN THE RIGHT (NORTH) FORK OF SAID ROAD A DISTANCE OF 0.1 MILES TO A DIRT ROAD HEADING WEST FOR 0.40 MILES TO THE MARK ON THE RIGHT.</p> <p>BENCHMARK IS A 5/8" ROD INSIDE OF A 4" PVC CASING. CAP "BM CAU1"</p> <p>BENCHMARK IS ATTACHED TO THE SOUTHEAST CORNER OF THE CAU1 MONITORING PLATFORM.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks: CAU1 MONITORING PLATFORM		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/08





PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

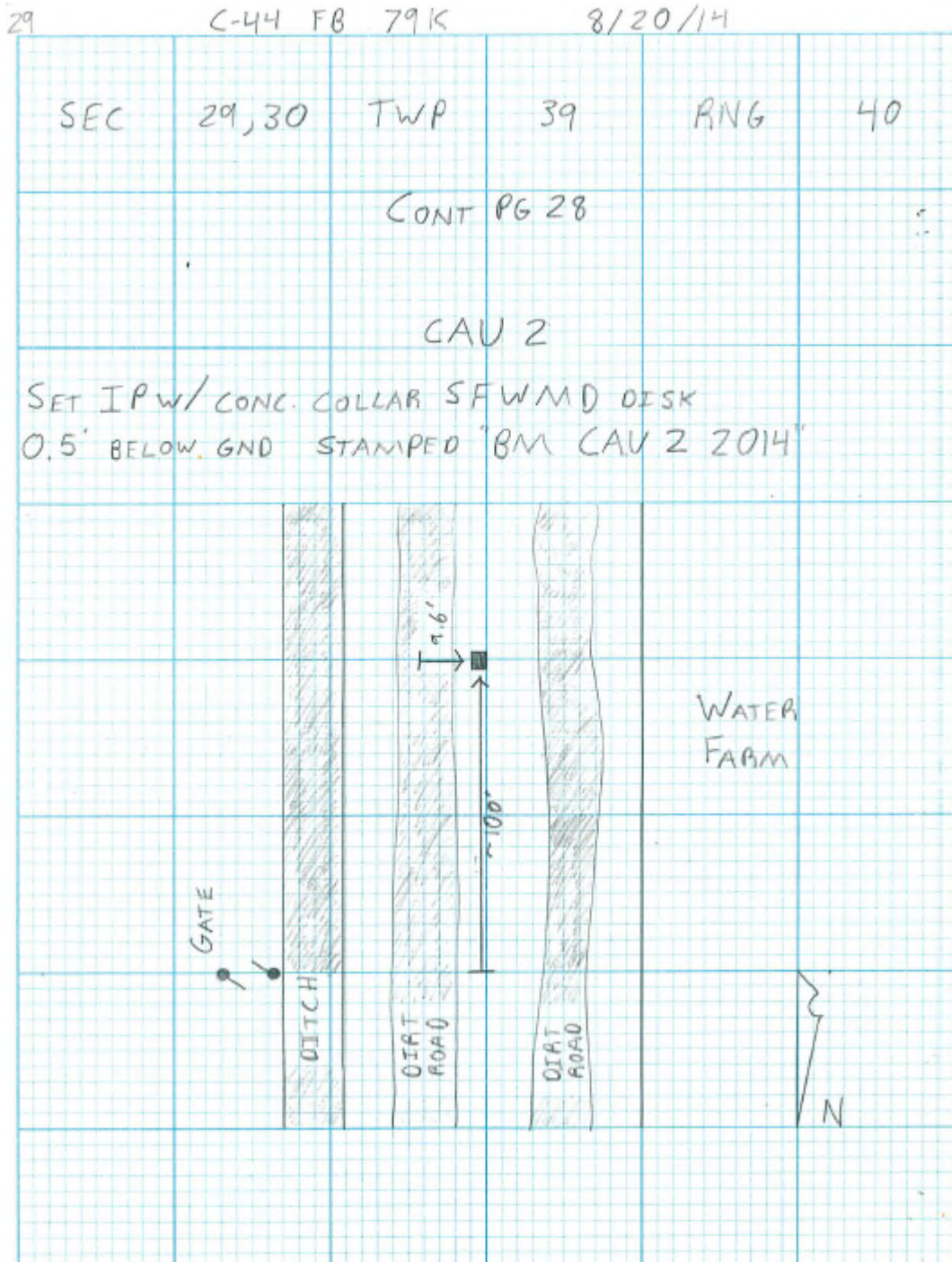
Rev. 4/08

COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU2
SECTION 29	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by R.KETT/S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 8/20/14 (Established)		FIELD BOOK C-44 79K PAGE 25-32
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 989,876 ft	E 864,343 ft
LATITUDE: N 27° 03' 19"	LONGITUDE: W 80° 21' 37"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. 24.76 ft
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>To Reach:</p> <p>FROM THE POST OFFICE LOCATED IN INDIANTOWN, FLORIDA, PROCEED SOUTHEASTERLY ALONG STATE ROAD 710 A DISTANCE OF 0.5 MI TO THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, THEN GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.1 MI TO A DIRT ROAD ON THE NORTH SIDE OF C.R. 726 AND A GATE, GO NORTHWESTERLY 130 FT +/- TO A FORK IN THE DIRT ROAD, PROCEED DOWN THE RIGHT (NORTH) FORK OF SAID ROAD A DISTANCE OF 0.3 MILES TO THE STATION ON THE LEFT.</p> <p>BENCHMARK IS A CONCRETE POURED IN PLACE MONUMENT WITH A 2 INCH S.F.W.M.D. ALUMINUM DISK SET IN A 1.5 INCH GALVANIZED PIPE. CAP IS STAMPED "BM CAU2 2014"</p> <p>BENCHMARK IS 9.6 FT +/- WEST OF THE CENTERLINE OF THE DIRT ROAD, 100 FT +/- SOUTH OF AN EAST-WEST GATE LOCATED EAST OF AND ACROSS A DITCH THAT RUNS PARALLEL TO SAID DIRT ROAD AND 0.5 FT +/- BELOW GRADE.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks:		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU3
SECTION 29	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by R.KETT/S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 8/20/14 (Established)		FIELD BOOK C-44 79K PAGE 25-32
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 987,396 ft	E 862,449 ft
LATITUDE: N 27° 02' 55"	LONGITUDE: W 80° 21' 58"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. 26.79 ft
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.1 MI TO A DIRT ROAD ON THE NORTH SIDE OF C.R. 726 AND A GATE, GO NORTHWESTERLY 130 FT +/- TO A FORK IN THE DIRT ROAD, PROCEED DOWN THE LEFT (WEST) FORK OF SAID ROAD A DISTANCE OF 0.4 MILES TO THE STATION ON THE RIGHT.</p> <p>BENCHMARK IS A CONCRETE POURED IN PLACE MONUMENT WITH A 2 INCH S.F.W.M.D. ALUMINUM DISK SET IN A 1.5 INCH GALVANIZED PIPE. CAP IS STAMPED "BM CAU3 2014"</p> <p>BENCHMARK IS 240 FT +/- WEST OF THE 3RD SET OF POWER POLES AS COUNTED FROM THE FORK OF IN THE DIRT ROAD PREVIOUSLY DESCRIBED, 17.5 FT +/- NORTH OF THE CENTERLINE OF THE DIRT ROAD AND 0.7 FT +/- BELOW GRADE.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks:		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/08

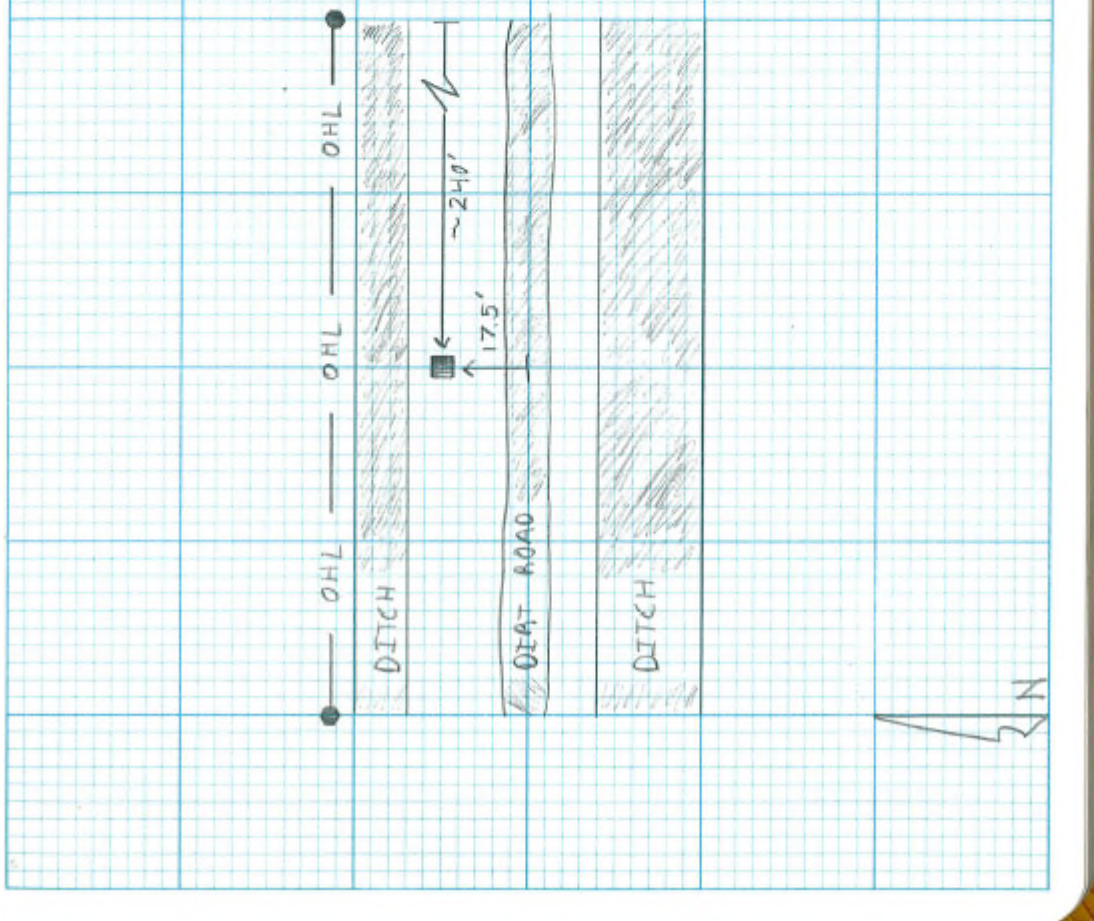
C-44 FB 79K

8/20/14

29

CAU 3

SET I.P. w/ CONC. COLLAR SFWMD DISK
0.7' BELOW GND STAMPED "BM CAU 3 2014"





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/08

PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

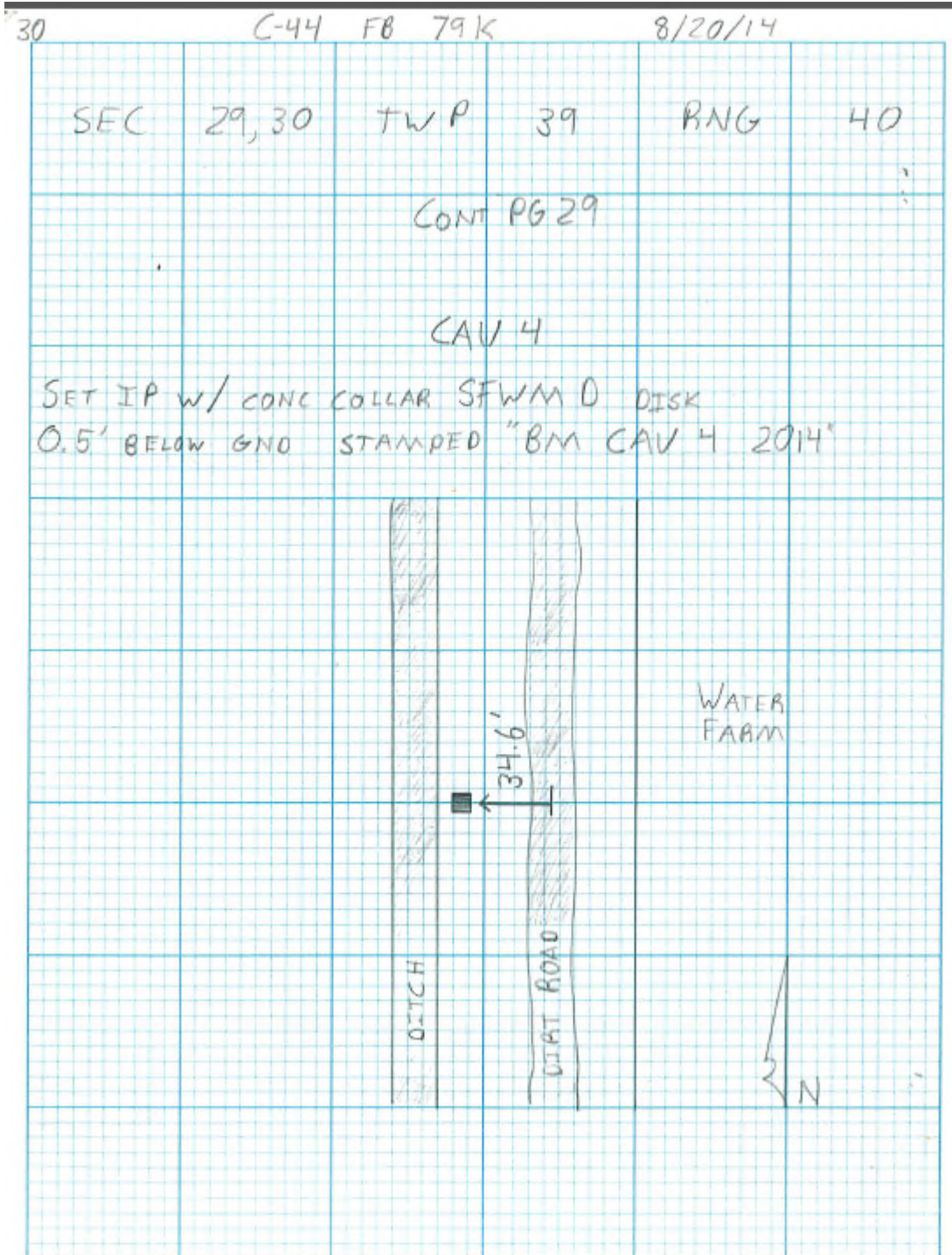
Rev. 4/08

COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU4
SECTION 30	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by R.KETT/S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 8/20/14 (Established)		FIELD BOOK C-44 79K PAGE 25-32
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 988,786 ft	E 859,823 ft
LATITUDE: N 27° 03' 09"	LONGITUDE: W 80° 22' 27"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. 26.29 ft
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.1 MI TO A DIRT ROAD ON THE NORTH SIDE OF C.R. 726 AND A GATE, GO NORTHWESTERLY 130 FT +/- TO A FORK IN THE DIRT ROAD, PROCEED WESTERLY DOWN THE LEFT FORK OF THE DIRT ROAD A DISTANCE OF 0.8 MI TO A LEVEE ROAD ON THE RIGHT, GO NORTHERLY DOWN THE LEVEE ROAD A DISTANCE OF 0.5 MILES TO THE STATION ON THE LEFT.</p> <p>BENCHMARK IS A CONCRETE POURED IN PLACE MONUMENT WITH A 2 INCH S.F.W.M.D. ALUMINUM DISK SET IN A 1.5 INCH GALVANIZED PIPE. CAP IS STAMPED "BM CAU4 2014"</p> <p>BENCHMARK IS 34.6 FT +/- WEST OF CENTERLINE OF THE LEVEE ROAD AND 0.5 FT +/- BELOW GRADE.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks:		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU5
SECTION 20	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by R.KETT/S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 8/20/14 (Established)		FIELD BOOK C-44 79K PAGE 25-32
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 991,667 ft	E 862,136 ft
LATITUDE: N 27° 03' 09"	LONGITUDE: W 80° 22' 27"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. 25.80 ft
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.1 MI TO A DIRT ROAD ON THE NORTH SIDE OF C.R. 726 AND A GATE, GO NORTHWESTERLY 130 FT +/- TO A FORK IN THE DIRT ROAD, PROCEED NORTHERLY DOWN THE RIGHT FORK OF THE DIRT ROAD A DISTANCE OF 0.7 MI TO A LEVEE ROAD ON THE LEFT, GO WESTERLY DOWN THE LEVEE ROAD A DISTANCE OF 0.4 MILES TO THE STATION ON THE RIGHT.</p> <p>BENCHMARK IS A CONCRETE POURED IN PLACE MONUMENT WITH A 2 INCH S.F.W.M.D. ALUMINUM DISK SET IN A 1.5 INCH GALVANIZED PIPE. CAP IS STAMPED "BM CAU5 2014"</p> <p>BENCHMARK IS 41.4 +/- NORTH OF CENTERLINE OF THE LEVEE ROAD AND 0.6 FT +/- BELOW GRADE.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks:		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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C-44 FB 79K

8/20/14

30

CAU 5

SET IP W/ CONC COLLAR SFWMD DISK

0.6' BELOW GND STAMPED "BM CAU 5 2014"

ORANGE GROVE



H.I.

WATER FARM

DIRT ROAD

N





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/08

PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

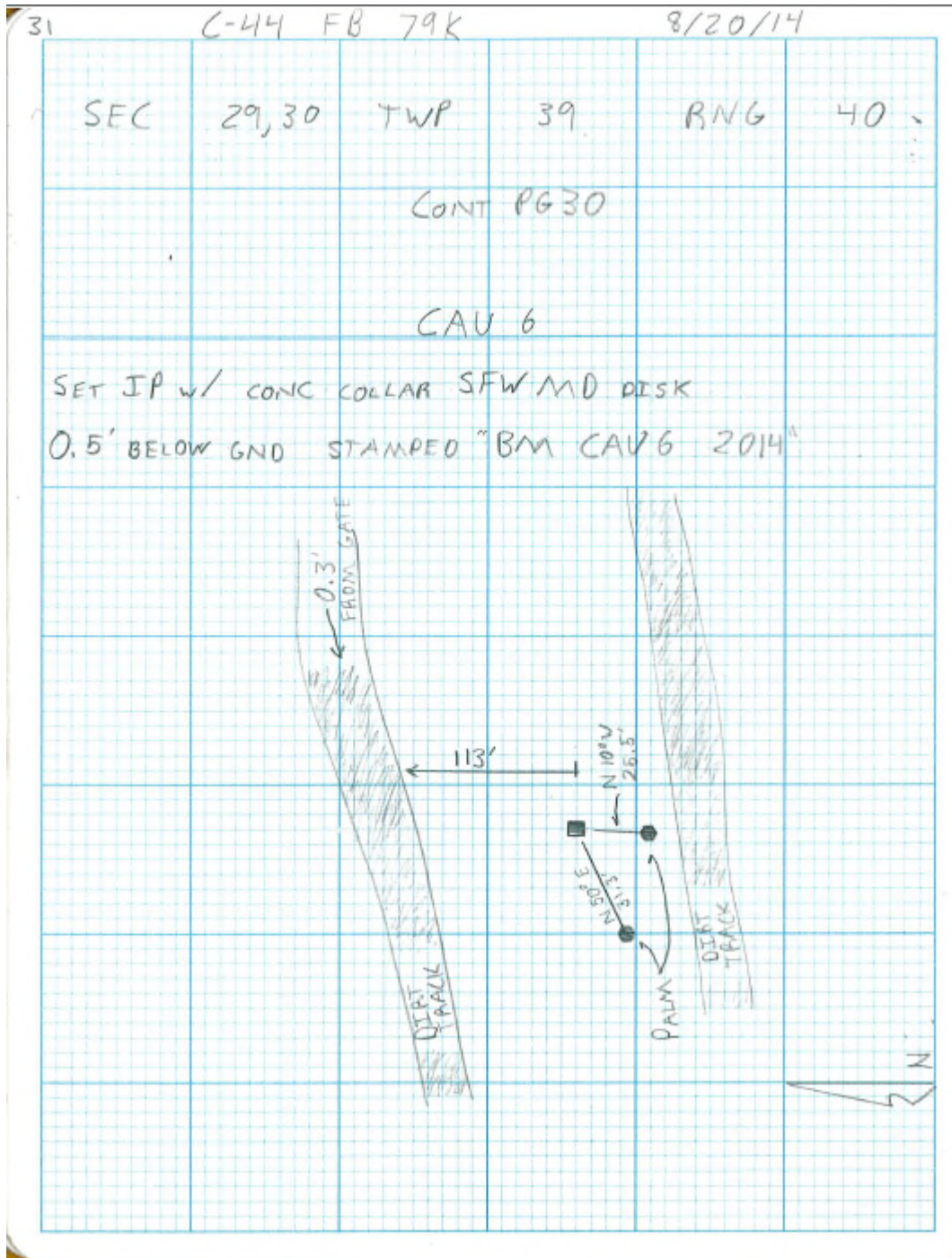
Rev. 4/08

COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU6
SECTION 29	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by R.KETT/S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 8/20/14 (Established)		FIELD BOOK C-44 79K PAGE 25-32
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 987,403 ft	E 864,094 ft
LATITUDE: N 27° 02' 55"	LONGITUDE: W 80° 21' 40"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. 39.41 ft
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>TO REACH:</p> <p>FROM THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.7 MI TO A DIRT ROAD ON THE SOUTH SIDE OF C.R. 726 AND A GATE, GO SOUTHEASTERLY 172 FT +/- TO A FORK IN THE DIRT ROAD AND THE BEGINNING OF AN ALL-TERRAIN VEHICLE TESTING TRACK, TAKE THE RIGHT (EAST) FORK A DISTANCE OF 0.3 MI TO THE STATION ON THE LEFT. (IT IS IMPORTANT TO ONLY TRAVEL IN COUNTER CLOCKWISE DIRECTION FOR SAFETY REASONS)</p> <p>BENCHMARK IS A CONCRETE POURED IN PLACE MONUMENT WITH A 2 INCH S.F.W.M.D. ALUMINUM DISK SET IN A 1.5 INCH GALVANIZED PIPE. CAP IS STAMPED "BM CAU6 2014"</p> <p>BENCHMARK IS 113 FT +/- SOUTH OF THE SOUTH EDGE OF THE DIRT ROAD, 25.5 FT +/- BEARING N 10 ° W OF A PALM TREE, 31.3 FT +/- BEARING N 50 ° E OF A PALM TREE AND 0.5 FT +/- BELOW GRADE.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks:		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU7
SECTION 31	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by R.KETT/S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 8/20/14 (Established)		FIELD BOOK C-44 79K PAGE 25-32
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 985,793 ft	E 860,689 ft
LATITUDE: N 27° 02' 39"	LONGITUDE: W 80° 22' 17"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. 33.61 ft
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>TO REACH:</p> <p>FROM THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.7 MI TO A DIRT ROAD ON THE SOUTH SIDE OF C.R. 726 AND A GATE, GO SOUTHEASTERLY 172 FT +/- TO A FORK IN THE DIRT ROAD AND THE BEGINNING OF AN ALL-TERRAIN VEHICLE TESTING TRACK, TAKE THE RIGHT (EAST) FORK FOLLOWING THE ALL-TERRAIN VEHICLE TRACK A DISTANCE OF 1.1 MI TO THE SOUTHWESTERLY CORNER OF THE TRACK AND TO THE STATION ON THE RIGHT. (IT IS IMPORTANT TO ONLY TRAVEL IN COUNTER CLOCKWISE DIRECTION FOR SAFETY REASONS)</p> <p>BENCHMARK IS A CONCRETE POURED IN PLACE MONUMENT WITH A 2 INCH S.F.W.M.D. ALUMINUM DISK SET IN A 1.5 INCH GALVANIZED PIPE. CAP IS STAMPED "BM CAU7 2014"</p> <p>BENCHMARK IS 20.1 FT +/- SOUTH OF THE CENTERLINE OF THE DIRT ROAD, 21.4 FT +/- FT BEARING N 13 ° W OF A PALM TREE, 78 FT +/- BEARING S 34 ° W OF A 16 INCH OAK TREE AND 0.5 FT +/- BELOW GRADE.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks:		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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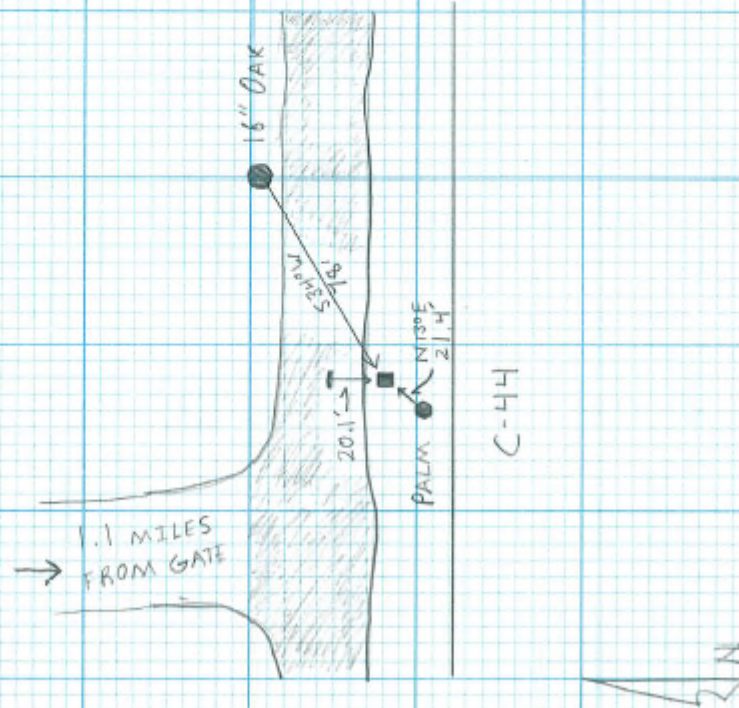
C-44 FB 79 K

9/2014

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CAU 7

SET IP W/ CONC COLLAR SFWMD DESK
0.5' BELOW GND STAMPED "BM CAU 7 2014"





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU SG SE
SECTION 29	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by R.KETT/S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 8/20/14 (Established)		FIELD BOOK C-44 79K PAGE 25-32
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 988,432 ft	E 864,265 ft
LATITUDE: N 27° 03' 05"	LONGITUDE: W 80° 21' 38"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. 30.41 ft
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>to reach:</p> <p>FROM THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.1 MI TO A DIRT ROAD ON THE NORTH SIDE OF C.R. 726 AND A GATE, GO NORTHWESTERLY 130 FT +/- TO A FORK IN THE DIRT ROAD, PROCEED DOWN THE RIGHT (NORTH) FORK OF SAID ROAD A DISTANCE 300 +/- FEET TO A LEVEE ROAD ON THE LEFT, PROCEED WESTERLY ON THE LEVEE ROAD A DISTANCE OF 10 FT +/- TO THE STATION ON THE RIGHT.</p> <p>BENCHMARK IS A CONCRETE POURED IN PLACE MONUMENT WITH A 2 INCH S.F.W.M.D. ALUMINUM DISK SET IN A 1.5 INCH GALVANIZED PIPE. CAP IS STAMPED "BM CAU SG SE 2014"</p> <p>BENCHMARK IS 25 FT +/- WEST OF THE CENTERLINE OF THE LEVEE ROAD, 5.3 FT +/- EAST OF THE TOP OF BANK, AND 14.65 FT +/- SOUTHEAST OF THE SOUTHWEST SUPPORT POST OF A PLATFORM EXTENDING NORTHWEST INTO CAULKINS WATER FARM AND 0.5 FT +/- BELOW GRADE.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks:		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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C-44 FB 79K

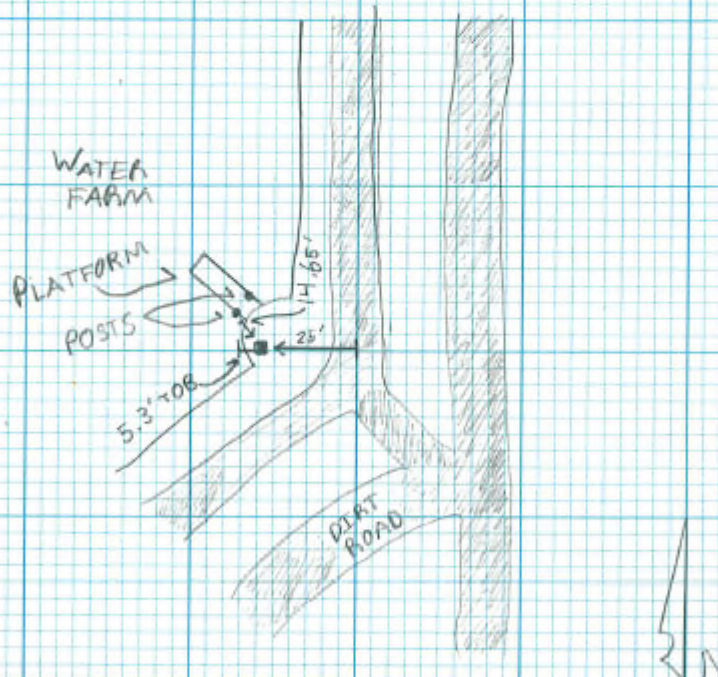
8/20/14

32

SG SE

SET IP W/ CONC COLLAR SFWMD DISK

0.5' BELOW GND STAMPED BM CAU SG SE 2014





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

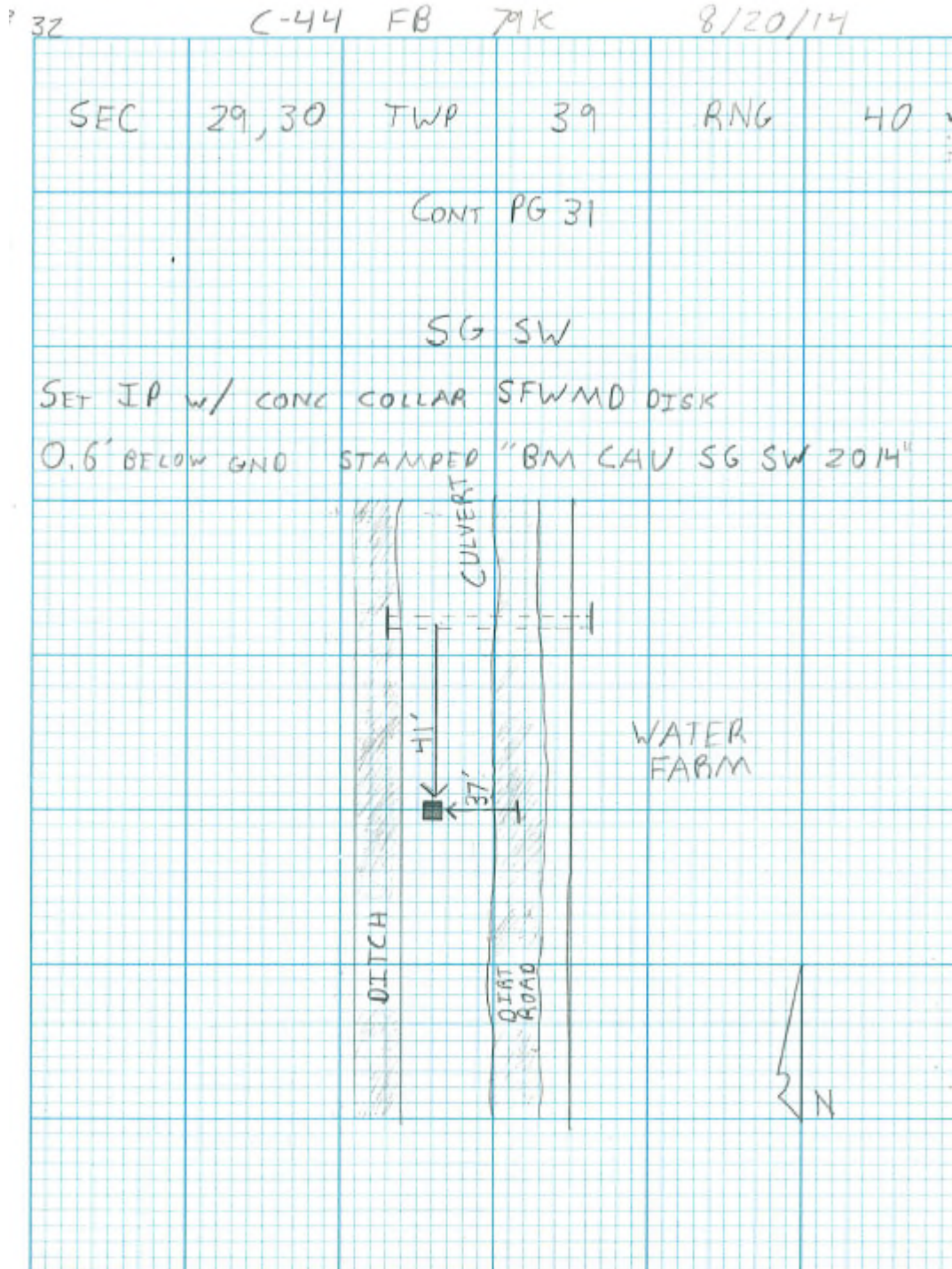
Rev. 4/08

COUNTY MARTIN	PROJECT CAULKINS	DESIGNATION CAU SG SW
SECTION 30	TOWNSHIP 39 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE _____ INDIANTOWN SE _____		
Established by R.KETT/S.F.W.M.D.		Recovered by N/A (Surveyor / Firm Name)
DATE 8/20/14 (Established)		FIELD BOOK C-44 79K PAGE 25-32
HORIZONTAL DATUM: 1927 1983 ADJ _____ Other _____ (circle one) ZONE E or W		
STATE PLANE COORDINATES	N 987,410 ft	E 859,816 ft
LATITUDE: N 27° 02' 55"	LONGITUDE: W 80° 22' 27"	
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. 27.20 ft
VERTICAL DATUM: MSL 1929 1988 Other _____ (circle one)		EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		
DESCRIPTION		
<p>TO REACH:</p> <p>FROM THE INTERSECTION OF S.R. 710 AND SW CITRUS BOULEVARD, GO EASTERLY ON SW CITRUS BOULEVARD A DISTANCE OF 0.5 MI TO A FORK IN THE ROAD, TAKE THE LEFT (NORTH) FORK, C.R. 726 AND GO A DISTANCE OF 6.1 MI TO A DIRT ROAD ON THE NORTH SIDE OF C.R. 726 AND A GATE, GO NORTHWESTERLY 130 FT +/- TO A FORK IN THE DIRT ROAD, PROCEED WESTERLY DOWN THE LEFT FORK OF THE DIRT ROAD A DISTANCE OF 0.8 MI TO A LEVEE ROAD ON THE RIGHT, GO NORTHERLY DOWN THE LEVEE ROAD A DISTANCE OF 0.25 MILES TO THE STATION ON THE LEFT.</p> <p>BENCHMARK IS A CONCRETE POURED IN PLACE MONUMENT WITH A 2 INCH S.F.W.M.D. ALUMINUM DISK SET IN A 1.5 INCH GALVANIZED PIPE. CAP IS STAMPED "BM CAU SG SW 2014"</p> <p>BENCHMARK IS 41 +/- SOUTH OF THE CENTERLINE OF A CULVERT PIPE, 37 FT +/- WEST OF THE CENTERLINE OF THE LEVEE ROAD AND 0.6 FT +/- BELOW GRADE.</p> <p>NGS BENCHMARKS USED: BENCHMARKS USED WERE FROM PREVIOUS SURVEY BY DISTRICT CONTRACTOR</p>		
Notable Land marks:		
SKETCH		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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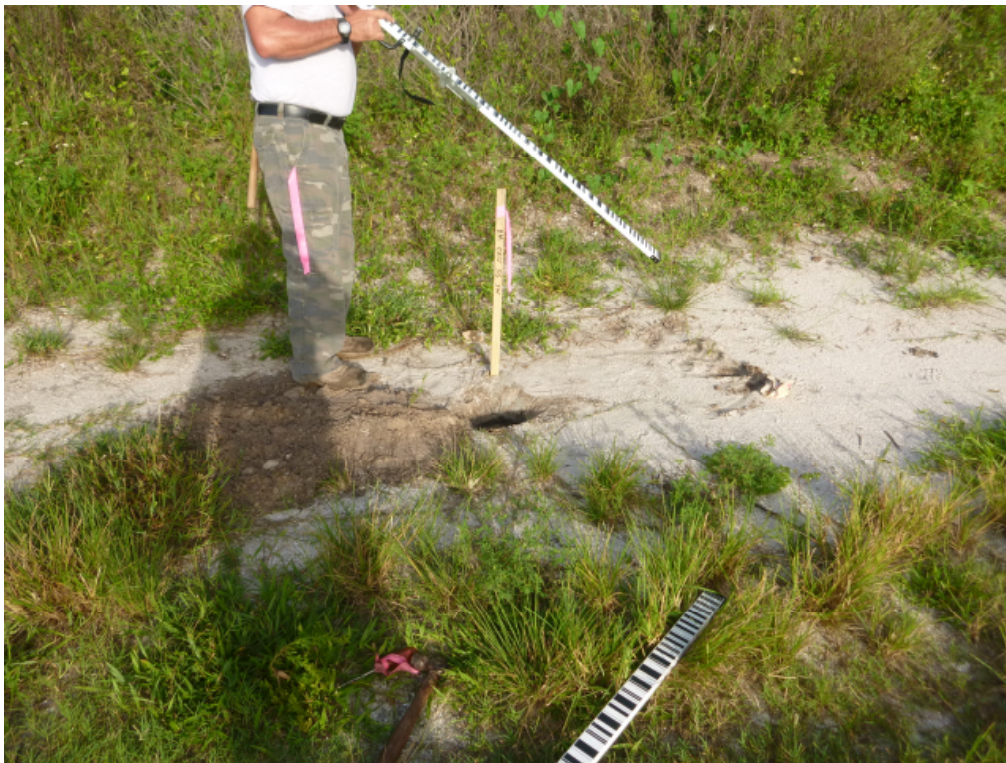




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PICTURE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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