

SURVEY REPORT

L-31 LEVEE ROAD WELLS Miami-Dade County, FL

PROJECT NUMBER:

E2150-428.00

REPORT DATE:

October 20, 2015

REVISED DATE:

SUBMITTAL:

Final

PREPARED FOR:

Cardno, Inc.

Natural Resources & Health Sciences

Division

PROJECT MANAGER:

Scott Urquhart, PSM

PROJECT MANAGER:

David Hire, Project Scientist / Staff

Hydrologist

Cardno

5670 Zip Drive Fort Myers, FL 33905 USA

Phone: +1 239 277 0722 Fax: +1 239 277 7179

www.cardno.com



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SURVEY REPORT

According to the: STATE OF FLORIDA STANDARDS OF PRACTICE CHAPTER 472.027 Florida Statutes Chapter 5J-17, Florida Administrative Code

This report and copies thereof are not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. This report is not valid without the attached compact disc referenced in this report.

Additions or deletions to the report by other than the signing party are prohibited without written consent of the signing party.

Date of last fieldwork: October 15, 2015 as recorded in Field Book 425, Pages 43-49.

All field work was performed by:

Cardno, Inc., LB00007975 5670 Zip Drive Fort Myers, Florida 33905 Phone: (239) 277-0722 Fax: (239) 277-7179 Scott Urquhart, PSM 6524 (Surveyor and Mapper in Responsible Charge)

Scott R. Urquhart

Professional Surveyor & Mapper

Florida Certificate No. 6524 (For the firm – LB 7995)

Date Signed



ABBREVIATIONS

GPS

Global Positioning System

INC.

Incorporated

LB

Florida Licensed Business Number

NGS

National Geodetic Survey

PSM

Professional Surveyor and Mapper

NAVD

North American Vertical Datum

CONT PT

Control Point

LAT

Latitude

LONG

Longitude

ELEV

Elevation



PURPOSE OF SURVEY

The Specific Purpose of this survey was to establish elevations on the measuring points of six (6) wells located in two separate clusters on the top of a levee road running along the west side of the L-31 canal, Miami-Dade, Florida. (See Figure 1 below)

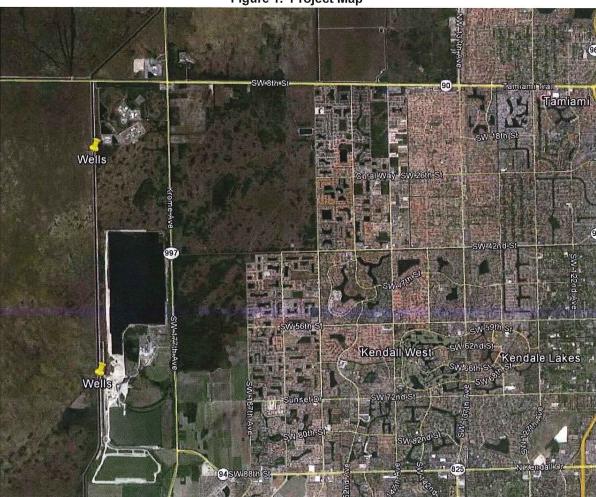


Figure 1. Project Map



SCOPE OF WORK

Cardno, Inc. was to establish vertical values on a specified measuring point on each of the six (6) wells. The wells are identified as L31NNGW3, L31NNGW4, L31NSGW1, L31NSGW2, L31NSGW3 and L31NSGW4. Horizontal values were also obtained for each well. All of the points were geo-referenced to the following Horizontal Datum: Florida State Plane Coordinate System, East Zone, Units - U.S. Survey Feet, North American Datum of 1983. Orthometric heights were derived using GEOID 2012A and are referenced to the North American Vertical Datum of 1988 (NAVD 88). Values shown in the National Geodetic Vertical Datum of 1929 (NGVD29) were converted using the values as shown on the South Florida Water Management District control point sheets (+1.56 feet from NAVD88 to NGVD29).

METHODOLOGY

The horizontal positional data of the wells was collected utilizing Real Time Kinematic Global Positioning System (RTK GPS) procedures. All GPS points were collected using a Trimble R8-Model II receiver / antenna mounted on fixed-height rods using the Trimble VRS Network. All points were occupied for a ten second duration collecting positional data at a rate of one (1) position per second.

Two (2) benchmarks were recovered near each well site. The benchmarks used were "JBA 33", "JBA 31", "JBA 22" and "JBA 39R". Conventional three-wire leveling was then used to run an elevation between the benchmarks and through the well measuring points. See **Appendix C** for benchmark information.

Pictures were taken at each well to show the well site and a close-up of the measuring point location (See **Appendix A**).

All data was combined and entered into a spreadsheet (See Appendix B).

ACCURACY

The methods used to collect the horizontal values of the wells have been utilized and tested by this firm to have an expected accuracy of 0.20 or better.

Well measuring points elevated by 3-wire leveling procedures meet or exceed 3rd Order accuracy as set forth by the Federal Geodetic Control Committee, Standards and Specifications for Geodetic Control Networks, September 1984.

PROJECT PERSONNEL

Office Personnel: Scott Urquhart, PSM – Project Manager

Field Personnel:
Josh Haywood – Crew Chief
James Connors – Instrument Man

Appendix A

WELL: L31NNGW3





WELL: L31NNGW4





WELL: L31NSGW1





WELL: L31NSGW2





WELL: L31NSGW3





WELL: L31NSGW4





Appendix B

WELL ID.	LATITUDE	LONGITUDE	NORTHING	EASTING	MEASURING POINT ELEVATION (NGVD29)	MEASURING POINT ELEVATION (NAVD88)
L31NNGW3	N 25°44'46.47"	W 80°29'52.33"	513777.2	821445.3	15.92	14.36
L31NNGW4	N 25°44'46.24"	W 80°29'52.31"	513753.9	821447.2	15.91	14.35
L31NSGW2	N 25°42'07.36"	W 80°29'46.27"	497715.1	822061.3	15.44	13.88
L31NSGW1	N 25°42'07.25"	W 80°29'46.26"	497704.7	822062.2	15.57	14.01
L31NSGW3	N 25°42'07.05"	W 80°29'46.25"	497683.9	822063.3	15.50	13.94
L31NSGW4	N 25°42'06.93"	W 80°29'46.24"	497672.3	822063.7	15.32	13.76

Appendix C



The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.7.1
        National Geodetic Survey, Retrieval Date = SEPTEMBER 30, 2015
AJ8370 DESIGNATION - JBA 33
            - AJ8370
AJ8370 PID
AJ8370 STATE/COUNTY- FL/MIAMI-DADE
AJ8370 COUNTRY - US
AJ8370 USGS QUAD - SOUTH MIAMI NW (1988)
AJ8370
AJ8370
                              *CURRENT SURVEY CONTROL
AJ8370
AJ8370* NAD 83(1986) POSITION- 25 44 42.
                                           (N) 080 29 52.
                                                              (W)
                                                                   SCALED
AJ8370* NAVD 88 ORTHO HEIGHT -
                                 1.962 (meters)
                                                     6.44 (feet) ADJUSTED
AJ8370
AJ8370 GEOID HEIGHT
                                -24.68
                                       (meters)
                                                                   GEOID12B
AJ8370 DYNAMIC HEIGHT -
                                 1.958 (meters)
                                                       6.42 (feet) COMP
AJ8370 MODELED GRAVITY -
                            979,028.6
                                        (mgal)
                                                                   NAVD 88
AJ8370
AJ8370 VERT ORDER
                      - FIRST
                                   CLASS II
AJ8370. The horizontal coordinates were scaled from a topographic map and have
AJ8370.an estimated accuracy of +/- 6 seconds.
AJ8370. The orthometric height was determined by differential leveling and
AJ8370.adjusted by the NATIONAL GEODETIC SURVEY
AJ8370.in June 2002.
AJ8370
AJ8370. The dynamic height is computed by dividing the NAVD 88
AJ8370.geopotential number by the normal gravity value computed on the
AJ8370. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8370.degrees latitude (g = 980.6199 \text{ gals.}).
AJ8370
AJ8370. The modeled gravity was interpolated from observed gravity values.
AJ8370
AJ8370;
                          North
                                       East
                                               Units Estimated Accuracy
AJ8370; SPC FL E
                  - 156,460.
                                     250,390.
                                                 MT (+/- 180 meters Scaled)
AJ8370
                               SUPERSEDED SURVEY CONTROL
AJ8370
AJ8370. No superseded survey control is available for this station.
AJ8370
AJ8370 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ503475(NAD 83)
AJ8370
AJ8370 MARKER: DB = BENCH MARK DISK
AJ8370 SETTING: 0 = UNSPECIFIED SETTING
AJ8370 STAMPING: JBA 33
AJ8370 MARK LOGO: BEDMEN
AJ8370 MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8370 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ8370 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8370+SATELLITE: SATELLITE OBSERVATIONS - January 17, 2008
```

```
AJ8370
AJ8370 HISTORY - Date
                               Condition
                                                Report By
AJ8370 HISTORY
                  - UNK
                               MONUMENTED
                                                BEDMEN
AJ8370 HISTORY - 20010103 GOOD
                                                FLDEP
AJ8370 HISTORY
                   - 20080117 GOOD
                                                DCPWD
AJ8370
AJ8370
                                STATION DESCRIPTION
AJ8370
AJ8370'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
AJ8370'THE MARK IS ABOUT 18.2 MI (29.3 KM) NORTH OF HOMESTEAD, 9.0 MI (14.5
AJ8370'KM) NORTHWEST OF KENDALL, IN SECTION 11, TOWNSHIP 54 SOUTH, RANGE 38
AJ8370'EAST. TO REACH THE MARK FROM THE JUNCTION OF STATE ROAD 997 (KROME
AJ8370'AVENUE SW 177 AVENUE) AND U.S. HIGHWAY 41 (TAMIAMI TRAIL SW 8TH ST)
AJ8370'ABOUT 10.0 MI (16.1 KM) SOUTHWEST OF HIALEAH, GO WEST ON U.S. HIGHWAY
AJ8370'41 (TAMIAMI TRAIL SW 8TH ST) FOR 1.0 MI (1.6 KM) TO THE WEST END OF
AJ8370'BRIDGE NUMBER 8705851979 AND THE JUNCTION OF A LEVEE ROAD (L-31N) ON
AJ8370'THE WEST SIDE OF THE CANAL, TURN LEFT ON LEVEE ROAD (L-31N) AND GO
AJ8370'SOUTH FOR 1.1 MI (1.8 KM) TO THE MARK ON THE LEFT, A 5/8-INCH
AJ8370'STAINLESS STEEL ROD SET IN CONCRETE ENCASED IN A 4-INCH PVE PIPE
AJ8370'PROJECTING 0.5 FT (15.2 CM) ABOVE THE LEVEL OF THE GROUND AND ABOVE
AJ8370'THE LEVEL OF THE LEVEE ROAD. LOCATED 65.6 FT (20.0 M) EAST OF THE
AJ8370'APPROXIMATE CENTERLINE OF THE LEVEE ROAD, 23.5 FT (7.2 M) EAST OF THE
AJ8370'APPROXIMATE CENTERLINE OF A TURNOUT, 12.0 FT (3.7 M) WEST OF A U.S.
AJ8370'GEOLOGICAL SURVEY STORM GAGE IN THE WATER, 2.7 FT (0.8 M) EAST OF THE
AJ8370'SOUTHEAST CORNER OF A 4.0 FT (1.2 M) X 7.0 FT (2.1 M) BLOCK BUILDING
AJ8370'AND 1.0 FT (0.3 M) WEST OF A CARSONITE WITNESS POST. NOTE FOR KEY
AJ8370'CONTACT SOUTH FLORIDA WATER MANAGEMENT DISTRICT AT 2195 NORTHEAST 8TH
AJ8370'STREET HOMESTEAD, FL 33033, PHONE 305-242-5955.
AJ8370
AJ8370
                                STATION RECOVERY (2008)
AJ8370
AJ8370'RECOVERY NOTE BY DADE COUNTY PUBLIC WORKS DEPARTMENT 2008 (MJW)
AJ8370'RECOVERED IN GOOD CONDITION.
```

'*** retrieval complete.
Elapsed Time = 00:00:02



SOUTH FLORIDA WATER MANAGEMENT DISTRICT Survey Data Entry and Retrieval Application

Survey Data Entry and Retrieval Application (SDERA) Print Output

Control Point Search Results

Derived Data - Denoted

By: **

Designation

JBA31

Record State

ACCEPTED

NGS PID

Project Name

L-031N

Date Entered/Updated

06/27/2009

Updated By

AMELON

Status

00/2//2007

Party Chief

ATLAS DATA LOAD

SOUTH MIAMI NW

Type

V

Monument Set By

JAMES BEADMAN & ASSOCIATES

NAD 1983

25 44 47.0

80 29 53.0

Date Established

01/01/1995

Feet

County

MIAMI-DADE

Section

11

Township

Horizontal

Latitude

Longitude

54

NAD 1927

Range

38

Quadrangle

NGS Source BM

Offset (29 to 88) CCR Link

Measurement Unit

Ctrl Pt Source(s)

<u>Vertical</u>	NGVD 1929	NAVD 1988
Class	П	II
Order	2	2
Flavation	7 964	6.409

Feet

Northing(Y)
Easting(X)
Class
Order

NAD83 Adj Year

Field Book

Field Book Pages

Stamping

JBA 31

How to Reach

Description

THE NATIONAL PARK SERVICE DESCRIPTION JAMES BEADMAN AND ASSOC, INC. CONSULTING SURVEYORS PHONE 305/252-0741 VERTICAL AND HORIZONTAL CONTROL

MONUMENTS

FOR NATIONAL PARK SERVICE

DESIGNATION: JBA 031

PROJECT: ENP/L-31/WASD PID: NONE SSN: NONE

STATE: FLORIDA COUNTY: DADE USGS QUAD: SOUTH MIAMI NW

DATE SET: 3/28/1995 SET BY: JBA

LAST RECOVERED: 12/12/1997 LAST RECOVERED BY: JBA

VERTICAL ORDER: SECOND CLASS TWO NGVD 29 FEET: 7.9641 NAVD 88 FEET: 6.409

NGVD 29 METERS 2.4275 88 MINUS 29: -0.474 IN METERS

NAD 1927 HORIZONTAL ORDER: HAND GPS

UTM EASTING: 550342.000 LATITUDE: 25 44 47 SPC EASTING:

UTM NORTHING: 2847532.000 LONGITUDE: 80 29 53 SPC NORTHING:

STAMPED: JBA 31 DESCRIPTION:

THE STATION MARK IS A 5/8 STAINLESS STEEL ROD WITH A 3 1/2 ALUMINUM DISK SET IN

CONCRETE

IN A 4 PVC PIPE APPROX. 3.5 INCHES ABOVE GROUND LEVEL.

FROM THE INTERSECTION OF KROME AVENUE (SW 177TH AVENUE) AND THE TAMIAMI TRAIL (US 41), GO WEST

ON THE TAMIAMI TRAIL ONE MILE TO THE ENTRANCE OF LEVEE ROAD ALONG THE WESTERLY SIDE OF CANAL

L-31, THENCE SOUTHERLY ON SAID LEVEE ROAD 0.87 MILES TO DOCK ON WESTERLY EDGE OF LEVEE L-31,

THENCE APPROXIMATELY 6 FEET SOUTHEAST FROM P.K. NAIL ON DOCK. NEAR WELL T1-1.

DISCLAIMER:

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Page 1 of 2

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
PROGRAM = datasheet95, VERSION = 8.7.1
       National Geodetic Survey, Retrieval Date = SEPTEMBER 30, 2015
AJ8374 DESIGNATION - JBA 22
AJ8374 PID
             - AJ8374
AJ8374 STATE/COUNTY- FL/MIAMI-DADE
AJ8374 COUNTRY - US
AJ8374 USGS QUAD - SOUTH MIAMI NW (1988)
AJ8374
AJ8374
                              *CURRENT SURVEY CONTROL
AJ8374
AJ8374* NAD 83(1986) POSITION- 25 42 05. (N) 080 29 46.
                                                              (W)
                                                       6.73 (feet) ADJUSTED
AJ8374* NAVD 88 ORTHO HEIGHT -
                                 2.051 (meters)
AJ8374
                                                                    GEOID12B
AJ8374 GEOID HEIGHT
                                -24.69 (meters)
AJ8374 DYNAMIC HEIGHT -
                                                       6.72 (feet) COMP
                                 2.047 (meters)
AJ8374 MODELED GRAVITY -
                                                                   NAVD 88
                            979,022.7
                                        (mgal)
AJ8374
AJ8374 VERT ORDER
                      - FIRST
                                    CLASS II
 AJ8374
AJ8374. The horizontal coordinates were scaled from a topographic map and have
AJ8374.an estimated accuracy of \pm 6 seconds.
AJ8374. The orthometric height was determined by differential leveling and
AJ8374.adjusted by the NATIONAL GEODETIC SURVEY
AJ8374.in June 2002.
AJ8374. The dynamic height is computed by dividing the NAVD 88
AJ8374.geopotential number by the normal gravity value computed on the
AJ8374. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8374.degrees latitude (g = 980.6199 \text{ gals.}).
 AJ8374
 AJ8374. The modeled gravity was interpolated from observed gravity values.
 AJ8374
                          North
                                        East
                                               Units Estimated Accuracy
 AJ8374;
 AJ8374; SPC FL E
                       151,630.
                                     250,570.
                                                MT (+/- 180 meters Scaled)
 AJ8374
                               SUPERSEDED SURVEY CONTROL
 AJ8374
AJ8374
AJ8374. No superseded survey control is available for this station.
AJ8374 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ505427 (NAD 83)
 AJ8374
AJ8374 MARKER: DD = SURVEY DISK
 AJ8374 SETTING: 0 = UNSPECIFIED SETTING
 AJ8374 STAMPING: JBA 22
 AJ8374 MARK LOGO: BEDMEN
AJ8374 MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
 AJ8374 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 AJ8374+STABILITY: SURFACE MOTION
 AJ8374 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
```

```
AJ8374+SATELLITE: SATELLITE OBSERVATIONS - January 17, 2008
AJT8374
                   - Date
                                                Report By
AJ8374 HISTORY
                               Condition
AJ8374 HISTORY
                                                BEDMEN
                  - UNK
                               MONUMENTED
                - 20010103 GOOD
- 20080117 GOOD
AJ8374 HISTORY
                                                FLDEP
AJ8374 HISTORY
                                                DCPWD
AJ8374
AJ8374
                                STATION DESCRIPTION
AJ8374
AJ8374'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
AJ8374'THE MARK IS ABOUT 13.0 MI (20.9 KM) NORTH OF HOMESTEAD, 5.0 MI (8.0
AJ8374'KM) WEST OF KENDALL, IN SECTION 35, TOWNSHIP 54 SOUTH, RANGE 38 EAST.
AJ8374'TO REACH THE MARK FROM THE JUNCTION OF STATE ROAD 997 (KROME AVENUE SW
AJ8374'177 AVENUE) AND U.S. HIGHWAY 41 (TAMIAMI TRAIL SW 8TH ST) ABOUT 10.0
AJ8374'MI (16.1 KM) SOUTHWEST OF HIALEAH, GO WEST ON U.S. HIGHWAY 41
AJ8374'(TAMIAMI TRAIL SW 8TH ST) FOR 1.0 MI (1.6 KM) TO THE WEST END OF
AJ8374'BRIDGE NUMBER 8705851979 AND THE JUNCTION OF A LEVEE ROAD (L-31N) ON
AJ8374'THE WEST SIDE OF THE CANAL, TURN LEFT ON LEVEE ROAD (L-31N) AND GO
AJ8374'SOUTH FOR 4.1 MI (6.6 KM) TO THE MARK ON THE LEFT, A STAINLESS STEEL
AJ8374'ROD WITH A 3 1/2-INCH ALUMINUM DISK SET IN CONCRETE IN A 4-INCH PVC
AJ8374'PIPE PROJECTING 0.3 FT (9.1 CM) ABOVE THE LEVEL OF THE GROUND AND
AJ8374'ABOVE THE LEVEL OF THE LOWER LEVEE ROAD (NEXT TO A 4.0 FT (1.2 M) X
AJ8374'7.0 FT (2.1 M) BLOCK BUILDING USED TO HOUSE A U.S. GEOLOGICAL STORM
AJ8374'GAGE) . LOCATED 3.7 FT (1.1 M) SOUTH OF A WOODEN DECK HOLDING A STORM
AJ8374'GAGE IN THE WATER, 2.1 FT (0.6 M) EAST OF THE SOUTHEAST CORNER OF A
AJ8374'4.0 FT (1.2 M) X 7.0 FT (2.1 M) BLOCK BUILDING AND 1.3 FT (0.4 M) WEST
AJ8374'OF A CARSONITE WITNESS POST. NOTE A BAR MAGNETIC WAS PLACED ON THE
AJ8374'SOUTH SIDE OF THE MONUMENT. NOTE FOR KEY CONTACT SOUTH FLORIDA WATER
AJ8374'MANAGEMENT DISTRICT AT 2195 NORTHEAST 8TH STREET HOMESTEAD, FL 33033,
AJ8374 PHONE 305-242-5955.
AJ8374
                                STATION RECOVERY (2008)
AJ8374
AJ8374
AJ8374'RECOVERY NOTE BY DADE COUNTY PUBLIC WORKS DEPARTMENT 2008 (MJW)
AJ8374'RECOVERED IN GOOD CONDITION.
```

*** retrieval complete. Elapsed Time = 00:00:01



SOUTH FLORIDA WATER MANAGEMENT DISTRICT Survey Data Entry and Retrieval Application

Survey Data Entry and Retrieval Application (SDERA) Print Output

Control Point Search Results

Derived Data - Denoted

By: **

Designation NGS PID JBA39R

Record State

ACCEPTED

Project Name

L-031N

Date Entered/Updated

06/27/2009

Updated By

ATLAS DATA LOAD

MIAMI-DADE

Status

V

Party Chief

JAMES BEADMAN & ASSOCIATES

Type

Date Established

01/01/1995

Monument Set By County

INC

Section

Township

54

Range

35 38

Quadrangle

SOUTH MIAMI NW

Offset (29 to 88)

CCR Link

NGS Source BM

Ctrl Pt Source(s)

<u>Horizontal</u>	NAD 1927	NAD 1983	<u>Vertical</u>	NGVD 1929	NAVD 1988
Latitude		25 42 09.0	Class	П	II
Longitude		80 29 48.0	Order	2	2
Northing(Y)			Elevation	9.405	7.85
Easting(X)			Measurement Unit	Feet	Feet

Class Order

NAD83 Adj Year

Field Book

Field Book Pages

Stamping JBA 39R

How to Reach

Description

THE NATIONAL PARK SERVICE DESCRIPTION JAMES BEADMAN AND ASSOC, INC. CONSULTING SURVEYORS PHONE 305/252-0741 VERTICAL AND HORIZONTAL CONTROL

MONUMENTS

FOR NATIONAL PARK SERVICE

DESIGNATION: JBA 039R

PROJECT: ENP/L-31/WASD PID: NONE SSN: NONE

STATE: FLORIDA COUNTY: DADE USGS QUAD: SOUTH MIAMI NW

DATE SET: 5/4/1995 SET BY: JBA

LAST RECOVERED: 5/4/1995 LAST RECOVERED BY: JBA

VERTICAL ORDER: SECOND CLASS TWO NGVD 29 FEET: 9.405 NAVD 88 FEET: 7.850

NGVD 29 METERS 2.8667 88 MINUS 29: -0.474 IN METERS

NAD 1927 HORIZONTAL ORDER: HAND GPS

UTM EASTING: 550500.000 LATITUDE: 25 42 09 SPC EASTING:

UTM NORTHING: 2842673.000 LONGITUDE: 80 29 48 SPC NORTHING:

STAMPED: JBA 39R DESCRIPTION:

MARK IS A 5/8 STAINLESS STEEL ROD WITH A 3 1/2 ALUMINUM DISK SET IN CONCRETE IN A 4 PVC

PIPE AT GROUND LEVEL.

FROM THE INTERSECTION OF KROME AVENUE (SW 177TH AVENUE) AND THE TAMIAMI TRAIL (US 41), GO WEST

ON THE TAMIAMI TRAIL ONE MILE TO THE ENTRANCE TO THE LEVEE ROAD ALONG THE WESTERLY SIDE OF

CANAL L-31, THENCE SOUTHERLY ON SAID LEVEE ROAD 3.90 MILES TO THE MARK, SAID MARK BEING 7 FEET

EAST OF EAST END OF DOCK ON WEST SIDE OF LEVEE L-31. NEAR WELL T2-1.

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