Specific Purpose Survey of the Monitoring Wells TOHO-1

Osceola County, Florida

South Florida Water Management District's Purchase Order number PC P602020

Keith and Schnars project number 16434.07, Task 22001

> Report Date: August 15, 2006 Submittal: First

> > **Prepared for:**

South Florida Water Management District

Prepared by:



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PURPOSE

To establish vertical data (NAVD 1988 and NGVD 1929) on the Monitoring Wells at the structure.

LOCATION OF PROJECT

The project is located in Osceola County.



ITEMS DELIVERED TO THE DISTRICT

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

DATUM FOR THE PROJECT

The vertical datum for the project is North American Datum of 1988 (NAVD '88). National Geodetic Survey vertical control monuments with published NAVD '88 elevations were used as the basis for this survey. The National Geodetic Vertical Datum of 1929 (NGVD '29) shown were computed using CORPSCON version 6.0 program.

LEVELING METHODS

Benchmark TOHO-01 was constructed at the site. The elevations were established from Benchmark C 514 using a Wild NA-2 conventional level and three-wire observation method.

VERTICAL CONTROL

BM C 514		Elevation:	NAVD 1988	87.65'	NGVD 1929	
Found in National Geodetic	Lat	itude	28°10'23"			
Survey Database			(Scaled)			
State/County Lor		ngitude	81°18'07"			
FL/Osceola	FL/Osceola		(Scaled)			
USGS QUAD						
St. Cloud South (1980)						
Havin Orden (Dralinsinson)						

Horiz. Order (Preliminary)
Class (Preliminary)



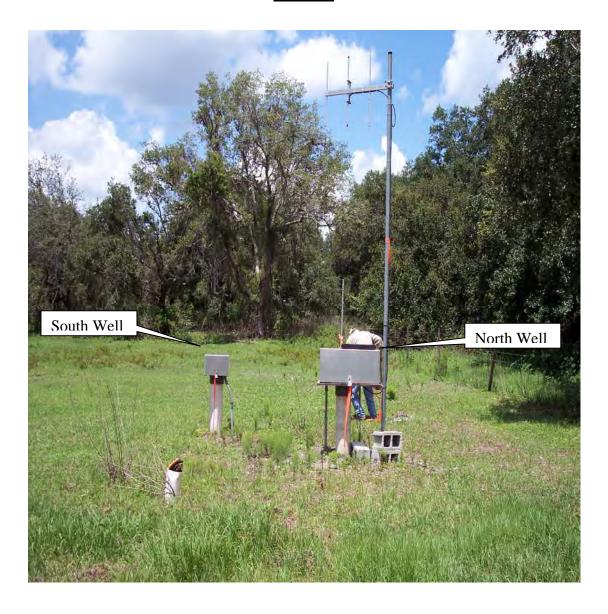
DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM) THE MARK IS ABOUT 26.9 MI NORTH OF KENSVILLE, 4.9 MI SOUTH OF ST. CLOUD, IN SECTION 34, TOWNSHIP 26 SOUTH, RANGE 30 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 192, 441 (13TH STREET) AND COUNTY ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) IN ST. CLOUD, GO SOUTH ON COUNTY ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) FOR 4.7 MI TO THE JUNCTION OF FRIARS COVE ROAD ON THE RIGHT, TURN RIGHT ON FRIARS COVE ROAD AND GO WEST FOR 1.4 MI THE EAST END OF BRIDGE NUMBER 920131 OVER THE FLORIDA TURNPIKE AND THE MARK IS ON THE LEFT, SET FLUSH IN THE TOP OF THE BRIDGE WALKWAY AND ABOUT 1.0 FT ABOVE THE LEVEL OF FRIARS COVE ROAD. LOCATED 15.6 FT SOUTHWEST OF THE APPROXIMATE CENTERLINE OF FRIARS COVE ROAD, 8.3 FT NORTHWEST OF THE SOUTHEAST END OF THE BRIDGE WALKWAY AND 0.9 FT NORTHEAST OF THE NORTH FACE OF THE BRIDGE RAIL.

PROJECT RESULTS

North Monitoring Well 1	South Monitoring Well 2
Monitoring Well TOHO-01: Reference mark: Set mark on S. side PVC pipe With initials K&S.	Monitoring Well TOHO-01: Reference mark: Set mark on S. side PVC pipe With initials K&S.
New Reference Mark El. <u>68.158'</u> (NGVD '29) (<u>Wrote -1.024' to NAVD 1988</u>).	New Reference Mark El. 67.957' (NGVD '29) (Wrote -1.024' to NAVD 1988).
Initials: <u>K&S</u> R.M. R.F. R.C.	Initials: <u>K&S</u> R.M. R.F. R.C.
B.M., R.F., R.C. Date: 7/27/06	B.M., R.F., R.C. Date: 7/27/06
written at the mark:	written at the mark:
El. <u>68.02</u> Date: <u>03/09/99</u> By: <u>F.D., D.S.Y.</u>	El. <u>67.81</u> Date: <u>06/09/99</u> By: <u>F.D., D.S.Y.</u>
Reference Mark location: <u>TOP OF PVC</u>	Reference Mark location: <u>TOP OF PVC</u>

PROJECT PHOTO

<u>TOHO-1</u>



PROJECT PHOTO

NORTH WELL

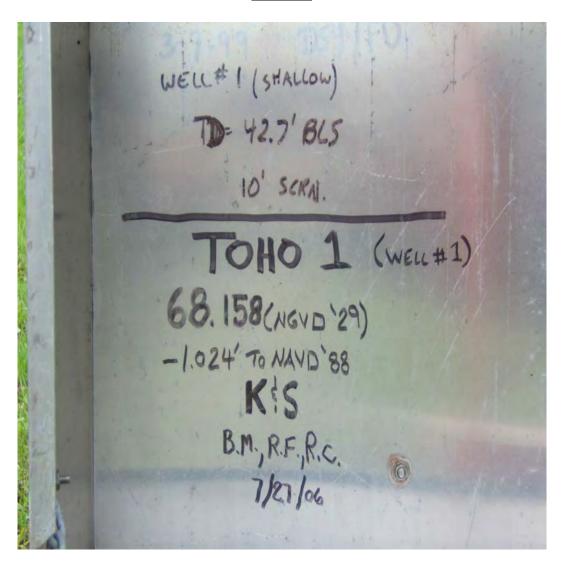
<u>TOHO-1</u>



PROJECT PHOTO

NORTH WELL

TOHO-1



PROJECT PHOTO

SOUTH WELL

TOHO-1



PROJECT PHOTO

SOUTH WELL

TOHO-1



PROJECT PHOTO

<u>TOHO-1</u>





Comments:

Party Chief: <u>D. Sullivan</u> Field Book: <u>1156</u> Page <u>31-38, 53-57</u> Bench Mark: <u>"C 514"</u> El. <u>87.65"</u>, Vertical Datum: <u>NAVD1988</u>

Offset: 1.027' SFWMD VALUE (add this value to convert to NGVD 1929)
Offset: 1.027' NGS VALUE (add this value to convert to NGVD 1929)

NAVD 88 - North American Vertical Datum of 1988 NGVD29 -National Geodetic Vertical Datum of 1929 NAD 83-99 (Horizontal Datum) North American Datum

NGS- National Geodetic Survey

SFWMD- South Florida Water Management District

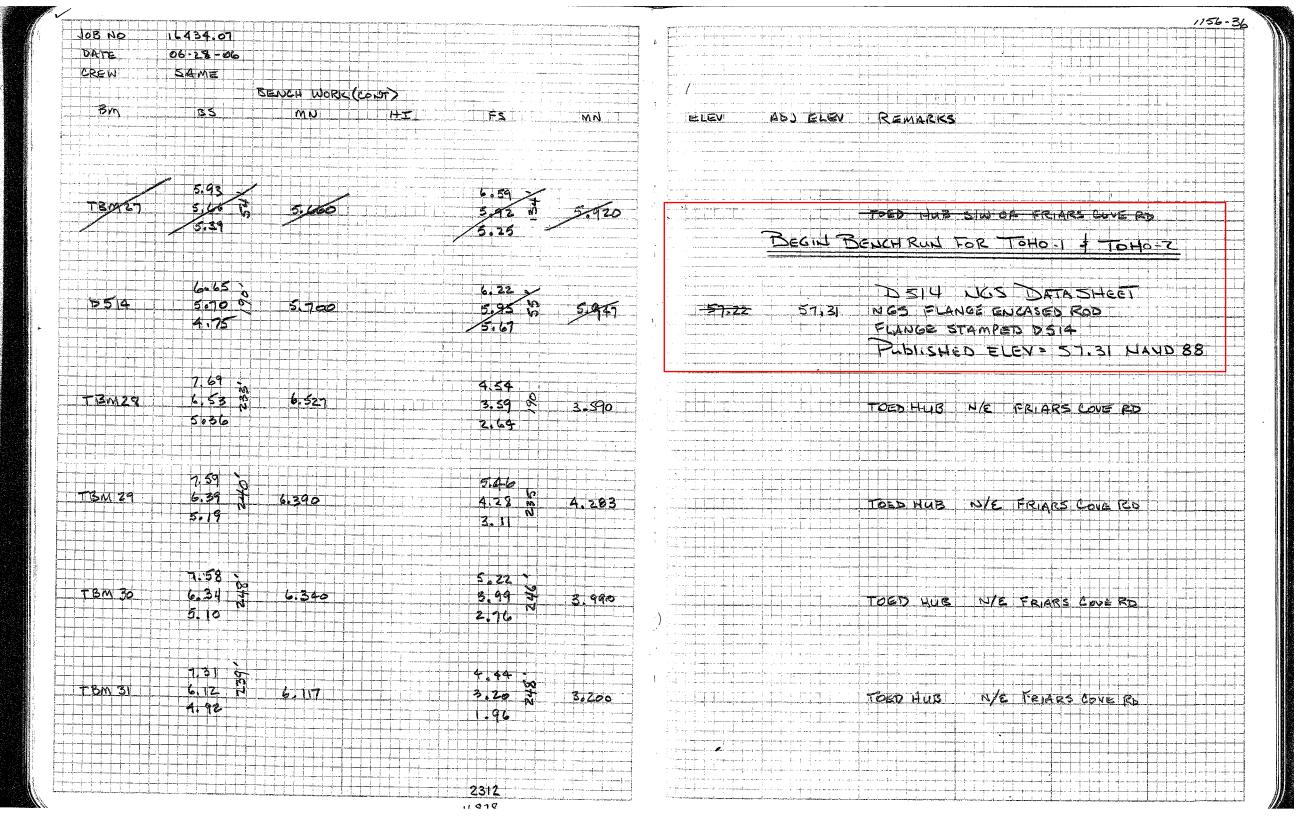
PVC-Polyvinyl Chloride

SURVEYOR'S CERTIFICATION

I hereby certify that this Specific Purpose Survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61-G17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

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

	2.2
	By:
Date of Survey	Kenneth T. Glass, PSM
July 27, 2006	Professional Surveyor and Mapper
•	State of Florida
	Certificate No. 5713



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BM TOHO!	5.62	5.620	70.254				POUREN CONC.	MON. W/ S.F. W. M. D. BRA	SS DISK
	5,49		68.754					54.634 HAND 88	
		Andria de la composición della	90.137						and the second of the second o
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		and the second of the second o		1.69		4	17		The second secon
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WELL PIPE !				1.62	2 1.620	60,639		TA ALUM BOX ON 8" P	
				<u>1,55</u>	and the second of the second o	67. 134	(SHALLON)	المراجع والمراجع ويتنهنين	Nand Ba
				4.86			* · · · · · · · · · · · · · · · · · · ·	en de la companya de	69.658 68-158
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								radio de la companya de la companya La companya de la co	J. ZO S. J. JO NAVI CO.
	2.33			1,90		<i>\</i> 66.934			and the state of the second of the state of
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	2.16		to the term of the species for	1.74			(DEEP)		H640 29 =
	6,73				material programme of the second control of	1 /0 /03	(BALANCED		69.457 67.957
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T0H0 1. gen
I denti fi cati on_I nformati on:
          Ci tati on:
                    Citation_Information:
                              Originator: Kenneth T. Glass, P.S.M. (ed.)
 Kenneth T. Glass
                              Publication_Date: 20060808
Publication_Time: Unknown
Title: S.F.W.M.D. Monitoring Well
Edition: TOHO-1
 Keith & Schnars
                              Series_Information:
                              Publication Information:
                                         Publication Place: Not Published
                                         Publisher: None
                              Online_Linkage: kglass@keithandschnars.com
                              Larger_Work_Či tati on:
                                        Ci tati on_I nformati on:
                                                   Seri es_I nformati on:
                                                  Publication_Information:
          Description:
                    Abstract:
                              South Florida Water Management District
                              Structure TOHO-1.
 Purpose
                    Purpose:
                              To establish reference elevations in NAVD 1988 and
                              NGVD 1929 datum at the Monitoring Well(s).
          Time_Period_of_Content:
                    Time_Peri od_Information:
                              Si ngl e_Date/Ti me:
  Survey Date
                                         Cal endar_Date: 20060727
                              Range_of_Dates/Times:
                              Mul tiple_Dates/Times:
                    Currentness_Reference: Publication Date
          Status:
                    Progress: Complete
                    Maintenance_and_Update_Frequency: Unknown
          Spati al _Domai n:
                    Boundi ng_Coordi nates:
                              West_Bounding_Coordinate: 81°18′44.3″
                              East_Bounding_Coordinate: 81°18'44.3"
                              North_Boundi ng_Coordi nate: 28°10' 26.0"
South_Boundi ng_Coordi nate: 28°10' 26.0"
          Keywords:
                     Theme:
                              Theme_Keyword_Thesaurus: Specific Purpose Survey
                              Theme_Keyword: Monitoring Well(s)
                    PI ace:
                              Place_Keyword_Thesaurus: Osceola County
Place_Keyword: S.F.W.M.D. Monitoring Well TOHO-1
Place_Keyword: SEC. 33 - T26S - R30E
                    Stratum:
                    Temporal:
          Access_Constraints: Key needed to gain access to Monitoring Wells. Use_Constraints: Call South Florida Water Management District for key.
          Point_of_Contact:
_. Contact_Information:
Howard Ehmke
                              Contact_Person_Pri mary:
                                         Contact_Person: Howard J. Ehmke
SFWMD
                                        Contact_Organization: South Florida Water Management
District
                              Contact_Organization_Primary:
Contact_Position: P.S.M.
Contact_Address:
                                         Address_Type: mailing and physical address
                                        Address:
                                                  Acceler 8
                                                  Suite 150
                                                   2301 Centerpark West Drive
                                         City: West Palm Beach
```

Country: USA Page 1

State_or_Province: Florida Postal_Code: 33409

```
T0H0 1. gen
                                 Contact_Voice_Telephone: (561) 242-5520 ext 4064 Contact_Electronic_Mail_Address: hehmke@sfwmd.gov
                                 Hours_of_Service: 8:00 am to 5:00 pm EST
           Securi ty_Information:
           Cross_Reference:
                      Ci tati on_Informati on:
                                 Series_Information:
                                 Publication_Information:
Data_Quality_Information:
           Attribute_Accuracy:
                      Attri bute_Accuracy_Report:
                                 The horizontal location of the benchmark was taken from a hand held G.P.S. unit. The vertical data
Equipment Used
                                 was collected using a Wild NA-2 Level
                                 Coordinates are based on the Florida State Plane
Coordinate System, East Zone, NAD 83/90. Elevations
are based on NAVD 1988 with an offset supplied to
                                 convert to NGVD 1929.
           Logi cal _Consi stency_Report:
                      Vertical data on the monitoring wells were established
           using the site bench mark.
Completeness_Report:
Well 1(North Well)
Results 68.158' (NGVD 1929) TOHO-
                     Offset written at wells (-) 1.024' to NAVD 1988.
Well 2 (South Well)
67.957' (NGVD 1929) TOHO-1 Well
                                                 TOHO-1 Well.
Project Results
                      Offset written at wells (-) 1.024' to NAVD 1988. TOHO-1 2006 was the site benchmark used for this
                      NAVD 1988 elevation 63.134'
           Positional_Accuracy:
                      Hori zontal Posi ti onal Accuracy:
                                 Horizontal_Positional_Accuracy_Report:
The horizontal position of the benchmark
Horizontal
                                           was established using a hand held GPS.
                                 Quanti tati ve_Hori zontal _Posi ti onal _Accuracy_Assessment:
                                            Hori zontal _Posi ti onal _Accuracy_Val ue: Lat. 28°10'26.0"
Long. 81°18'44.3"
                                           Horizontal_Positional_Accuracy_Explanation: Value derived
by hand-held GPS unit.
                      Vertical _Positional _Accuracy:
                                 Vertical_Positional_Accuracy_Report:
The onsite benchmark was used to establish the
                                            elevations on the monitoring well(s) in this report.
                                 Quanti tati ve_Verti cal _Posi ti onal _Accuracy_Assessment:
                                           Vertical_Positional_Accuracy_Value: 0.033ft. NAVD88
Vertical_Positional_Accuracy_Explanation: Better than
0.03ft. x sq. root of miles of the level loop.
           Li neage:
                      Source_Information:
                                 Source_Ci tati on:
                                           Citation_Information:
                                                       rubiication_Information:
                                                       Larger_Work_Ci tati on:
                                                                 Ci tati on_Informati on:
                                                                             Series_Information:
                                                                            Publication_Information:
                                 Source_Time_Peri od_of_Content:
Time_Peri od_Information:
                                                       Single_Date/Time:
                                                       Range_of_Dates/Times:
                                                       Multiple Dates/Times:
                      Process_Step:
                                 Process_Description:
     Level Line
                                            Differential leveling was performed using a Wild NA-2 conventional level. The onsite bench mark TOHO-1 2006
```

was used to determine the monitoring well elevation.
Elevations were written at the wells in NGVD 1929 with an Page 2

```
offset provided to convert the elevations to NAVD 1988.
                               Process_Date: 20060727
                               Process_Contact:
                                          Contact_Information:
                                                    Contact_Person_Pri mary:
Contact_Organi zati on_Pri mary:
Contact_Address:
Spati al _Data_Organi zati on_I nformati on:
          Spatial_Reference_Information:
                     Hori zontal _Coordi nate_System_Defi ni ti on:
                               Geographic:
                                          Latitude_Resolution: 28°10'26"
                                          Longi tude_Resolution: 81°18'44.3"
                                          Geographic_Coordinate_Units: Degrees, minutes, and decimal
seconds
                               Geodetic_Model:
                     Vertical_Coordinate_System_Definition:
                               Altitude_System_Definition:
                               Depth_System_Defi ni ti on:
Entity_and_Attribute_Information:
          Detailed_Description:
                     Enti ty_Type:
                     Attri bute:
                               Attribute_Domain_Values:
                               Attribute_Value_Accuracy_Information:
          Overvi ew_Descri pti on:
Di stri buti on_Informati on:
          Di stri butor:
                     Contact_Information:
                               Contact_Person_Pri mary:
                               Contact_Organi zati on_Pri mary:
                               Contact_Organization: Keith and Schnars, P. A.
Contact_Person: Kenneth T. Glass, P. S. M.
Contact_Position: Director of Surveying and Mapping Lakeland
                               Contact_Address:
                                          Address_Type: mailing and physical address
Address: 2525 Drane Field Rd., Suite 7
                                          City: Lakel and
                               State_or_Province: Florida
Postal_Code: 33811
Country: Polk
Contact_Voice_Telephone: (863)-646-4771
Contact_Facsimile_Telephone: (863)-646-3378
                               Contact_Electronic_Mail_Address: kglass@keithandschnars.com
                               Hours_of_Service: \overline{8}: 00-\overline{5}: 00 est.
          Distribution_Liability: None
          Standard_Order_Process:
                     Di qi tal_Form:
                               Di gi tal _Transfer_I nformati on:
Di gi tal _Transfer_Opti on:
                                          Online_Option:
                                                    Computer_Contact_Information:
                                                               Network_Address:
                                                               Di al up_Instructions:
                                          OffLi ne_Opti on:
                                                    Recordi ng_Capaci ty:
          Available_Time_Period:
                     Time_Period_Information:
                               Si ngl e_Date/Ti me:
                               Range_of_Dates/Times:
Multiple_Dates/Times:
Metadata_Reference_Information:
          Metadata_Date: 20060808
          Metadata Contact:
                     Contact_Information:
                               Contact_Person_Pri mary:
Contact_Person: Kenneth T. Glass, P.S.M.
                                          Contact_Organization: Keith and Schnars, P.A.
                               Contact_Organization_Primary:
Contact_Position: Director of Surveying and Mapping Lakeland
                                                       Page 3
```

T0H0 1. gen

T0H0 1. gen

Contact_Address:

Address_Type: mailing and physical address Address: 2525 Drane Field Rd., Suite 7

City: Lakel and

City: Lakeland
State_or_Province: FL
Postal_Code: 33811
Country: USA
Contact_Voice_Telephone: (863) 646-4771
Contact_Facsimile_Telephone: (863) 646-3378
Contact_Electronic_Mail_Address: kglass@keithandschnars.com
Hours_of_Service: 8:00 am to 5:00 pm EST
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: 19940608
Metadata_Security_Information:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

					Rev. 4/01
COUNTY	PROJECT			DESIGNATION	
OSCEOLA			Structure TOHO-1		
SECTION 33	TOWNSHIP <u>26</u> SOUTH		RANGE 30 EAST		
GEOGRAPHIC INDEX OF QUAD					
Established by KEITH AND SCHNARS		NAME OF QUADRANGLE			
Recovered by		ST. CLOUD SOUTH			
SET CLASS "C" MONUNENT WITH SFWMD BRASS DISK.					
SURVEYOR D. SULLIVAN (Keith and Schnars) DATE 06/28/2006		FIELD BOOK, 1156, pgs. 36-38, 53-57			
HORIZONTAL DATUM: 1983 with 1999 correction, ZONE East					
VERTICAL DATUM: NGVD 1929 and NAVD 1988					
CONTROL ACCURACY: HORIZONTAL HAND-HELD GPS, 3 rd Order VERTICAL					
STATE PLANE COORDINATES	X = 555549	١	Y = 1396054		EL. (NGVD 1929)
					64.158'
					EL. (NAVD 1988)
					63.134'
LATITUDE 28º 10' 26.0" LONGITUDE 81º 18' 44.3"					
DESCRIPTION					
South Florida Water Management District brass disk set in concrete monument stamped TOHO 1 / 2006					
The benchmark is located 5.5 miles southwest of Saint Cloud					
To reach the mark from the intersection of U.S. 192 and Vermont Ave. in Saint Cloud travel south along Vermont Ave. a distance of 4.8 miles (Vermont Ave. will turn into Canoe Creek Rd.) to Friars Cove Rd. Then					
Travel 1.8 miles west along Friars Cove Rd. to Partin Ranch Rd. Then travel south along Partin Ranch Rd.					
a distance of 0.2 miles. The mark is 0.13 miles west of the gate to Partin Ranch Property, 15' northwest					
of the well structure, and 300' north west of a gate next to the cattle loading Area.					
				DE	
Notable Land marks:				YEAR [2	
SKETCH		3.45		the property	

SKETCH

The NGS Data Sheet

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

```
DF6738 DESIGNATION - D 514
DF6738 PID - DF673
        PID - DF6738
STATE/COUNTY- FL/OSCEOLA
 DF6738
DF6738
        USGS QUAD - ST CLOUD SOUTH (1980)
DF6738
DF6738
                                   *CURRENT SURVEY CONTROL
DF6738
DF6738
                                                 081 19 03.
DF6738* NAD 83(1986) - 28 10 36.
                                         (N)
                                                                 (W)
                                                                          SCALED
DF6738* NAVD 88
                                 17.467
                                         (meters)
                                                         57.31
                                                                 (feet)
                                                                          ADJUSTED
DF6738
         GEOID HEIGHT-
DF6738
                                 -27.80
                                         (meters)
                                                                          GEOID03
 DF6738
         DYNAMIC HT -
                                   17.441 (meters)
                                                         57.22
                                                                 (feet)
                                                                          COMP
                             979,154.7
DF6738
        MODELED GRAV-
                                                                          NAVD 88
                                          (mgal)
 DF6738
         VERT ORDER - SECOND
                                    CLASS I
DF6738
DF6738
DF6738. The horizontal coordinates were scaled from a topographic map and have
 DF6738.an estimated accuracy of +/- 6 seconds.
DF6738. The orthometric height was determined by differential leveling
 DF6738.and adjusted by the National Geodetic Survey in April 2004..
 DF6738
DF6738. The geoid height was determined by GEOID03.
 DF6738
DF6738. The dynamic height is computed by dividing the NAVD 88 DF6738. geopotential number by the normal gravity value computed on the DF6738. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF6738.degrees latitude (g = 980.6199 gals.).
 DF6738
DF6738. The modeled gravity was interpolated from observed gravity values.
 DF6738
                                                      Units Estimated Accuracy MT (+/- 180 meters Scaled)
 DF6738;
                                             East
                              North
 DF6738;SPC FL E
                           425,830.
                                          168,820.
DF6738
DF6738
                                    SUPERSEDED SURVEY CONTROL
 DF6738
DF6738. No superseded survey control is available for this station.
DF6738
 DF6738_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM688168(NAD 83)
 DF6738_MARKER: F = FLANGE-ENCASED ROD
DF6738 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DF6738_STAMPING: D 514 2001
DF6738_MARK LOGO: FLDEP
DF6738 PROJECTION: FLUSH
 DF6738_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DF6738_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL DF6738_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
 DF6738+SATELLITE: SATELLITE OBSERVATIONS - June 28, 2001
 DF6738_ROD/PIPE-DEPTH: 23.9 meters
DF6738
DF6738
         HISTORY
                      - Date
                                   Condition
                                                     Report By
                      - 20010628 MONUMENTED
        HISTORY
DF6738
 DF6738
DF6738
                                    STATION DESCRIPTION
DF6738
 DF6738'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
DF6738'THE MARK IS ABOUT 27.0 MI NORTH OF KENSVILLE, 5.0 MI SOUTH OF ST.
 DF6738'CLOUD, IN SECTION 33,
 DF6738'TOWNSHIP 26 SOUTH, RANGE 30 EAST.
 DF6738'
DF6738'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 192, 441 (13TH
 DF6738'STREET) AND
 DF6738'COUNTY ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) IN ST. CLOUD, GO
DF6738'SOUTH ON COUNTY
 DF6738'ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) FOR 4.7 MI TO THE JUNCTION
 DF6738'OF FRIARS COVE
```

DF6738'ROAD ON THE RIGHT, TURN RIGHT ON FRIARS COVE ROAD AND GO WEST FOR 1.4 DF6738'MI TO THE EAST DF6738'END OF THE BRIDGE OVER THE FLORIDA TURNPIKE, CONTINUE WEST ON FRIARS DF6738'COVE ROAD FOR 1.0 DF6738'MI TO THE DEAD END AND THE MARK ON THE LEFT, A STAINLESS STEEL ROD DF6738'DRIVEN TO REFUSAL AT DF6738'A DEPTH OF 78.4 FT WITH A NGS LOGO CAP FLUSH WITH THE GROUND AND ABOUT DF6738'1.0 FT BELOW THE DF6738'LEVEL OF FRIARS COVE ROAD, THE DATUM POINT IS RECESSED 0.5 FT BELOW DF6738'THE LEVEL OF THE NGS DF6738'LOGO CAP. DF6738' DF6738'LOCATED 92.0 FT SOUTHWEST OF A METAL GATE, 20.0 FT SOUTH OF THE DF6738'APPROXIMATE CENTERLINE DF6738'OF FRIARS COVE ROAD, 17.0 FT WEST OF A 60-INCH OAK TREE, 1.2 FT NORTH DF6738'OF A BARBWIRE FENCE DF6738'AND 1.0 FT NORTH OF A CARSONITE WITNESS POST. DF6738' DF6738'NOTE ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH NGS LOGO CAP. DF6738' DF6738'NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE DF6738'MONUMENT. DF6738' DF6738' DF6738' *** retrieval complete. Elapsed Time = 00:00:01

The NGS Data Sheet

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

```
DESIGNATION - C 514
 DF6737
 DF6737
         PID
                           DF6737
 DF6737
         STATE/COUNTY- FL/OSCEOLA
         USGS QUAD - ST CLOUD SOUTH (1980)
 DF6737
 DF6737
                                     *CURRENT SURVEY CONTROL
 DF6737
 DF6737
 DF6737* NAD 83(1986) -
DF6737* NAVD 88 -
                           28 10 23.
                                            (N)
                                                   081 18 07.
                                                                     (W)
                                                                              SCALED
                                  26.717
                                           (meters)
                                                            87.65
                                                                     (feet)
                                                                              ADJUSTED
 DF6737
 DF6737
          GEOID HEIGHT-
                                   -27.82
                                             (meters)
                                                                              GEOID03
 DF6737
          DYNAMIC HT -
                                     26.678 (meters)
                                                            87.53
                                                                     (feet)
                                                                              COMP
 DF6737
          MODELED GRAV-
                               979,154.6
                                                                              NAVD 88
                                             (mgal)
 DF6737
 DF6737
         VERT ORDER - SECOND
                                      CLASS T
 DF6737
 DF6737. The horizontal coordinates were scaled from a topographic map and have
 DF6737.an estimated accuracy of +/- 6 seconds.
 DF6737. The orthometric height was determined by differential leveling
 DF6737.and adjusted by the National Geodetic Survey in April 2004..
 DF6737
 DF6737. The geoid height was determined by GEOID03.
 DF6737
DF6737. The dynamic height is computed by dividing the NAVD 88 DF6737. geopotential number by the normal gravity value computed on the DF6737. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF6737.degrees latitude (g = 980.6199 \text{ gals.}).
 DF6737
 DF6737. The modeled gravity was interpolated from observed gravity values.
 DF6737
                                                         Units Estimated Accuracy
 DF6737;
                                North
                                                East
 DF6737;SPC FL E
                                            170,350.
                                                                 (+/- 180 meters Scaled)
                            425,420.
                                                            MΤ
 DF6737
 DF6737
                                      SUPERSEDED SURVEY CONTROL
 DF6737
 DF6737. No superseded survey control is available for this station.
 DF6737
 DF6737_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM703164(NAD 83)
DF6737_MARKER: DD = SURVEY DISK
 DF6737 SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.
DF6737_SP_SET: BRIDGE WALKWAY
DF6737_STAMPING: C 514 2001
DF6737_MARK LOGO: FLDEP
 DF6737_MAGNETIC: N = NO MAGNETIC MATERIAL
 DF6737_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY DF6737_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DF6737+SATELLITE: SATELLITE OBSERVATIONS - June 28, 2001
 DF6737
 DF6737
         HISTORY
                       - Date
                                    Condition
                                                        Report By
 DF6737
                       - 20010628 MONUMENTED
        HISTORY
                                                        FLDEP
 DF6737
 DF6737
                                      STATION DESCRIPTION
 DF6737
 DF6737'DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
 DF6737'THE MARK IS ABOUT 26.9 MI NORTH OF KENSVILLE, 4.9 MI SOUTH OF ST. DF6737'CLOUD, IN SECTION 34,
 DF6737'TOWNSHIP 26 SOUTH, RANGE 30 EAST.
 DF6737'
 DF6737'TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY 192, 441 (13TH
 DF6737'STREET) AND
 DF6737'COUNTY ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) IN ST. CLOUD, GO
 DF6737'SOUTH ON COUNTY
 DF6737'ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) FOR 4.7 MI TO THE JUNCTION
 DF6737'OF FRIARS COVE
 DF6737'ROAD ON THE RIGHT, TURN RIGHT ON FRIARS COVE ROAD AND GO WEST FOR 1.4
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DF6737'MI THE EAST END
DF6737'OF BRIDGE NUMBER 920131 OVER THE FLORIDA TURNPIKE AND THE MARK ON THE
DF6737'LEFT, SET FLUSH
DF6737'IN THE TOP OF THE BRIDGE WALKWAY AND ABOUT 1.0 FT ABOVE THE LEVEL OF
DF6737'FRIARS COVE ROAD.
DF6737'
DF6737'LOCATED 15.6 FT SOUTHWEST OF THE APPROXIMATE CENTERLINE OF FRIARS COVE
DF6737'ROAD, 8.3 FT
DF6737'NORTHWEST OF THE SOUTHEAST END OF THE BRIDGE WALKWAY AND 0.9 FT
DF6737'NORTHEAST OF THE
DF6737'NORTH FACE OF THE BRIDGE RAIL.
DF6737'
DF6737'
DF6737'
DF6737'

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