

SURVEY NOTES:

1. THIS MAP IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
2. THE FULL, FORMAL REPORT OF THIS SPECIFIC PURPOSE SURVEY CONSISTS OF THIS THREE-SHEET MAP OF THE SITE TOGETHER WITH A 29-PAGE ILLUSTRATED SURVEYOR'S REPORT DATED SEPTEMBER 26, 2007 AND ENTITLED "SURVEYOR'S REPORT SPECIFIC PURPOSE SURVEY OF WELLS AND GROUND ELEVATIONS AT TREE ISLAND 3BS1 MIAMI-DADE COUNTY, FLORIDA."
3. BENCH MARK 3BS1-GW1 WAS USED TO CONTROL ELEVATIONS FOR THIS SURVEY. 3BS1-GW1 IS A STAINLESS STEEL ROD MONUMENT IN A PVC PIPE SLEEVE LOCATED IN THE WOOD PLATFORM AT SFWMD'S WELL CLUSTER 3BS1W1 (SHOWN HEREON NORTHWEST OF THE ISLAND). THE NAVD 88 ELEVATION OF 6.85' WAS OBTAINED FROM THE SFWMD SURVEY MONUMENT BENCHMARK DATABASE. (NOTE: BENCH MARK 3BS1-GW1 IS CALLED 3bs1w1 IN THAT DATABASE.) THE NGVD 29 ELEVATION OF BENCH MARK 3BS1-GW1 WAS DERIVED FROM THE NAVD 88 ELEVATION BY APPLYING THE MODELED GEOID HEIGHT COMPUTED WITH NGS VERTCON VERSION 2.0. SEE THE ACCOMPANYING SURVEYOR'S REPORT FOR ADDITIONAL DETAILS.
4. THE GEODETIC LATITUDES AND LONGITUDES FOR THE SS ROD MONUMENTS ARE WITH RESPECT TO NAD 83, AND THE NORTH AND EAST COORDINATES ARE IN U.S. SURVEY FEET WITH RESPECT TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83. SEE THE ACCOMPANYING SURVEYOR'S REPORT FOR ADDITIONAL DETAILS.
5. THE AERIAL PHOTOGRAPH DEPICTED ON SHEET 1 WAS OBTAINED FROM THE FDEP LABINS WORLD WIDE WEB SITE. ACCORDING TO DOCUMENTATION OBTAINED ON THAT SITE, THE PHOTOGRAPH WAS TAKEN ON 1/24/05.
6. THE DATE OF COMPLETION OF THE FIELD WORK FOR THIS SURVEY WAS SEPTEMBER 18, 2007.
7. SOME OF THE WELLS AT THIS SITE ARE PLACED IN CLOSELY SPACED PAIRS, OR MORE THAN TWO IN CLOSE PROXIMITY. WELLS IN CLOSE PROXIMITY ARE DENOTED ON THIS MAP BY A SINGLE SYMBOL, AT WHICH MULTIPLE CALL-OUT ARROWS LIST THE SEVERAL WELLS AT THAT LOCATION. SEE THE TABLE ON SHEET 3 OF THIS MAP FOR A LIST OF THESE WELLS AND THEIR COORDINATES. INSPECTION OF THE COORDINATES OF THE CLOSELY SPACED WELLS WILL REVEAL PRECISE INFORMATION ABOUT THEIR RELATIVE LOCATIONS.
8. BENCH MARK TREE E S WAS NOT RECOVERED DURING THIS SURVEY AND IS NOT DEPICTED HEREON.

LEGEND

| | |
|---------|--|
| PVC | POLYVINYL CHLORIDE |
| SS | STAINLESS STEEL |
| NGS | NATIONAL GEODETIC SURVEY |
| NGVD 29 | NATIONAL GEODETIC VERTICAL DATUM OF 1929 |
| NAVD 88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| NAD 83 | NORTH AMERICAN DATUM |
| FDEP | FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION |
| SFWMD | SOUTH FLORIDA WATER MANAGEMENT DISTRICT |
| SET | SEDIMENT EROSION TABLE |
| P.S.M. | PROFESSIONAL SURVEYOR AND MAPPER |
| ⊙ | WELL SITE |
| ⊕ | OTHER FEATURE |

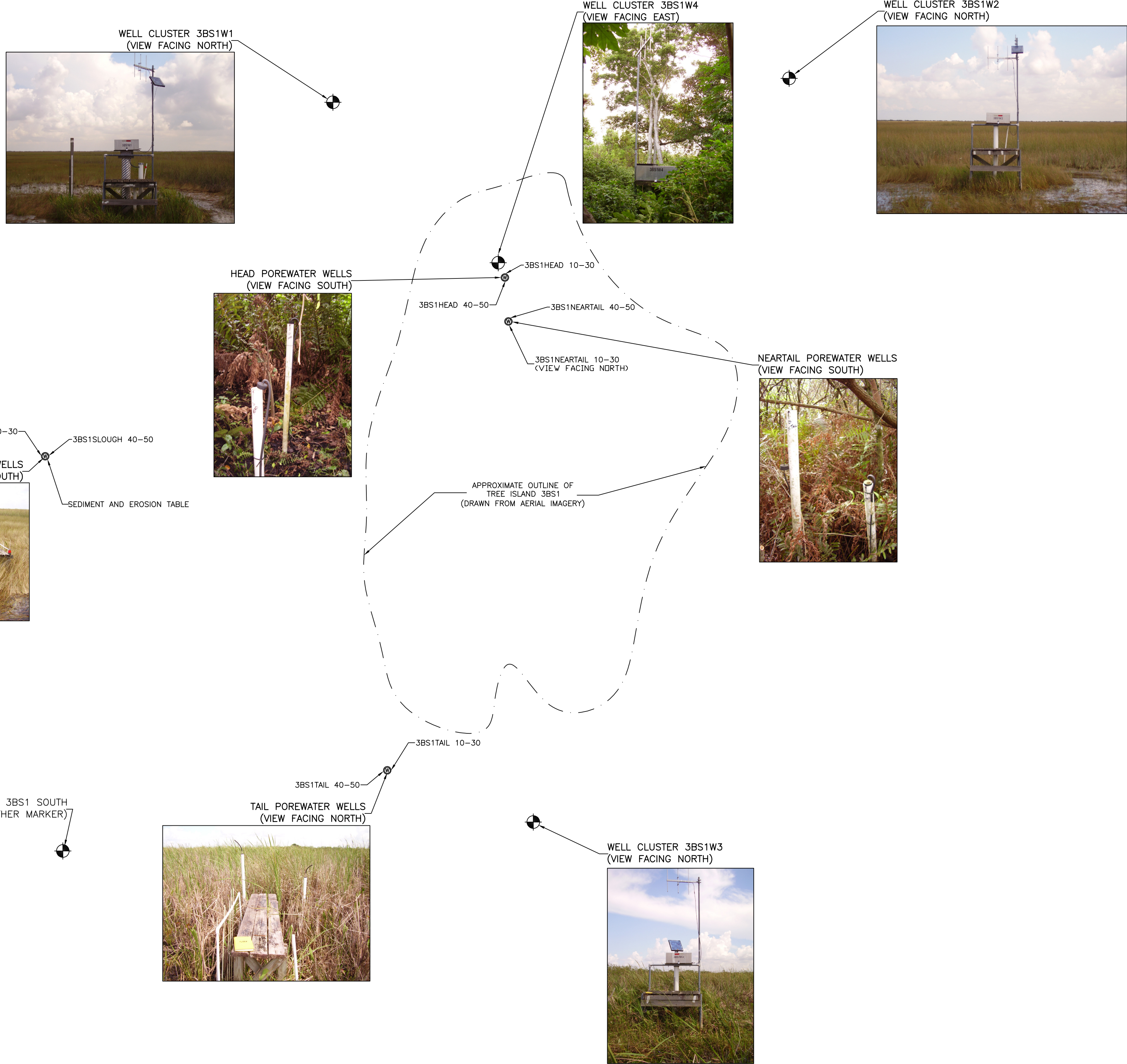
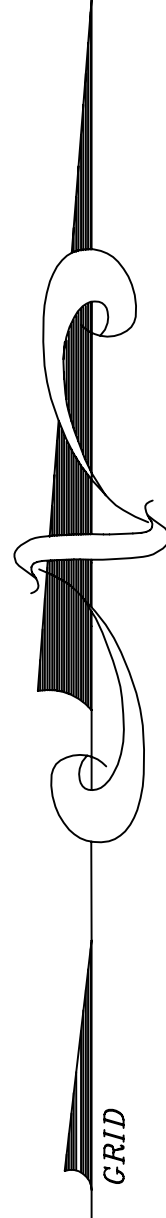
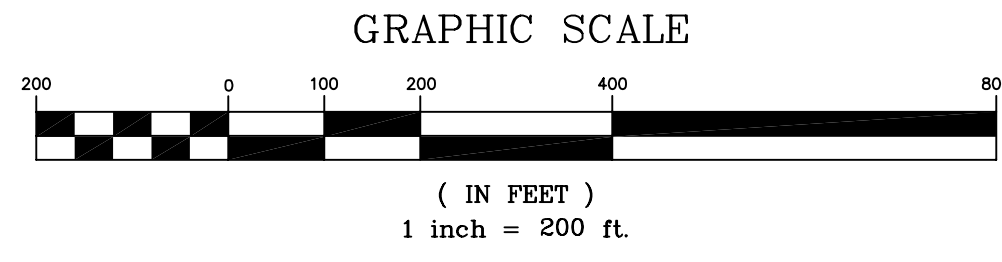
CERTIFICATE:

I HEREBY CERTIFY THAT THIS MAP OF SPECIFIC PURPOSE SURVEY AND THE ACCOMPANYING REPORT ENTITLED "SURVEYOR'S REPORT SPECIFIC PURPOSE SURVEY OF TREE ISLAND 3BS1" AND DATED SEPTEMBER 26, 2007 MEET APPLICABLE PORTIONS OF THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61-17, FLORIDA ADMINISTRATIVE CODE. THIS MAP AND THE ACCOMPANYING REPORT ARE PREPARED FOR THE SOLE AND SPECIFIC USE OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND ARE NOT ASSIGNABLE.

KEITH AND SCHNARS, P.A.
 L.B. NUMBER 1337

BY: LOREN J. GIBSON, P.S.M.
 STATE OF FLORIDA LICENSE NUMBER LS6510

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|--|---|--|-------|-----------------|--------------------|---------------------|-------------------|
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| | <p>MAP OF A SPECIFIC PURPOSE SURVEY OF TREE ISLAND 3BS1 SITUATE IN MIAMI-DADE COUNTY, FLORIDA</p> | <p>SOUTH FLORIDA WATER MANAGEMENT DISTRICT 3301 GUN CLUB ROAD WEST PALM BEACH, FLORIDA 33406</p> | | <p>FILE NO.</p> | <p>DRAWING NO.</p> | <p>SHEET 1 OF 3</p> | <p>REVISITONS</p> |
| DRAWN: JY DATE: SEPTEMBER 26, 2007 SCALE: 1"=200' FIELD: SEPTEMBER 18, 2007 FIELD BOOK(S): 1245 K&S PROJECT NO.: 16434C | CHECKED: LJC DATE: SEPTEMBER 26, 2007 | DATE: SEPTEMBER 18, 2007 FIELD BOOK(S): 1245 K&S PROJECT NO.: 16434C | DATE: | CHECKED: | DRAWN: | DATE: | REVISITONS: |



SOUTH FLORIDA
 WATER MANAGEMENT DISTRICT
 3301 GUN CLUB ROAD
 WEST PALM BEACH, FLORIDA 33406

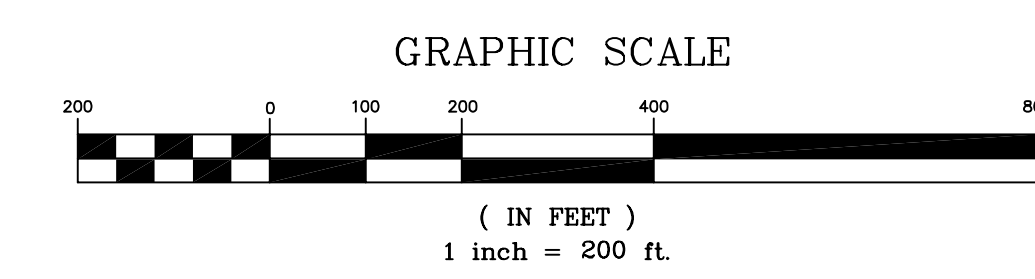
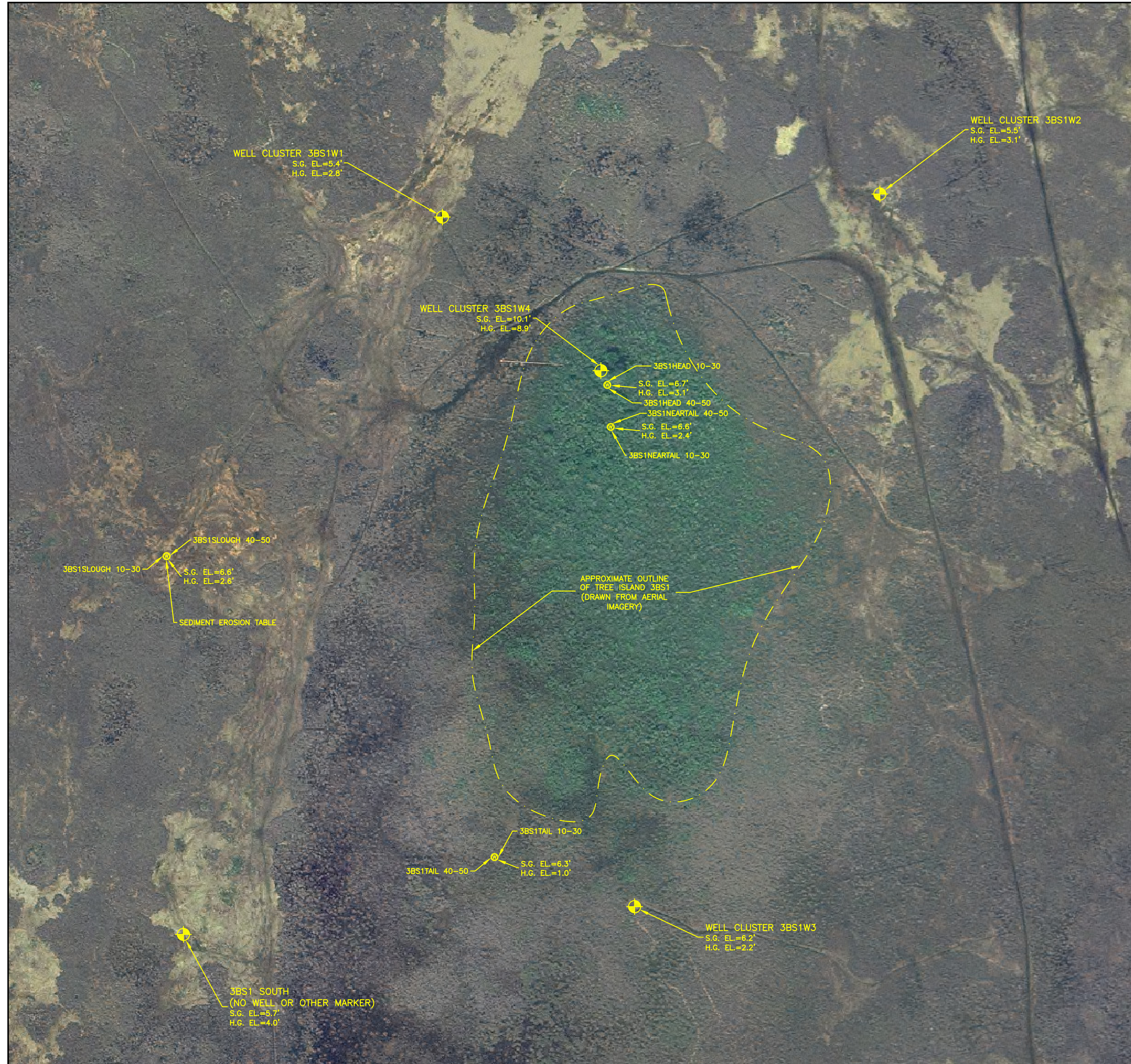
MAP OF A SPECIFIC PURPOSE
 SURVEY OF TREE ISLAND 3BS1
 SITUATE IN MIAMI-DADE COUNTY,
 FLORIDA
 PREPARED BY KEITH AND
 SCHNARS, P.A.

Keith and Schnars, P.A.
 ENGINEERS - PLANNERS - SURVEYORS
 6500 N. AVONDALE AVE., FT. LAUDERDALE, FL. 33309-2128 (561) 776-5165
 LICENSED BUSINESS NUMBER (L.B.N.) 1337

DRAWN: J.V. CHECKED: L.J.G.
 DATE: SEPTEMBER 26, 2007
 SCALE: 1"=200'
 FIELD: SEPTEMBER 18, 2007
 FIELD BOOK(S): 1245
 K&S PROJECT NO.: 16434C

| DRAWN | CHECKED | DATE | REVISIONS |
|-------|---------|------|-----------|
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- NOTES:**
- ELEVATIONS SHOWN ON THE MAP PORTION OF THIS SHEET ARE IN FEET ABOVE THE NATIONAL GEODETIC VERTICAL DATUM OF 1929. NORTH AMERICAN VERTICAL DATUM OF 1988 AND NATIONAL GEODETIC VERTICAL DATUM OF 1929 ELEVATIONS APPEAR IN THE TABLE BELOW.
 - SOFT GROUND ELEVATIONS ARE THE ELEVATIONS OF THE TOP OF THE MUCK OR ORGANIC MATERIAL. HARD GROUND ELEVATIONS ARE THE ELEVATIONS OF THE RELATIVELY IMPERMEABLE GROUND SURFACE BENEATH THE MUCK.

- LEGEND:**
- S.G. SOFT GROUND
 - H.G. HARD GROUND
 - EL. ELEVATION

TABLE OF HORIZONTAL POSITIONS AND ELEVATIONS

| Designation | NAD 83 latitude (north) | NAD 83 longitude (west) | State plane coordinate (northing) ¹ , U.S. Survey Feet | State plane coordinate (easting) ² , U.S. Survey Feet | Reference mark elevation (NGVD 29, feet) | Reference mark elevation (NAVD 88, feet) | Hard ground elevation (NGVD 29, feet) | Hard ground elevation (NAVD 88, feet) | Soft ground elevation (NGVD 29, feet) | Soft ground elevation (NAVD 88, feet) | Description |
|------------------------|---|-------------------------|---|--|--|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|
| 3BS1slough 10-30 | 25° 46' 38.402" | 80° 30' 51.183" | 525057.2 | 816022.8 | 9.24 | 7.68 | | | | | Porewater well |
| 3BS1slough 40-50 | 25° 46' 38.397" | 80° 30' 51.086" | 525056.8 | 816031.7 | 10.52 | 8.96 | 2.6 | 1.0 | 6.6 | 5.0 | Porewater well |
| 3BS1slough SET | 25° 46' 38.341" | 80° 30' 51.147" | 525051.1 | 816026.2 | 8.05 | 6.49 | | | | | SET |
| 3BS1head 10-30 | 25° 46' 43.917" | 80° 30' 35.331" | 525619.5 | 817469.8 | 10.57 | 9.01 | | | | | Porewater well |
| 3BS1head 40-50 | 25° 46' 43.874" | 80° 30' 35.352" | 525615.0 | 817467.9 | 11.38 | 9.82 | 3.1 | 1.5 | 6.7 | 5.1 | Porewater well |
| 3BS1neartail 10-30 | 25° 46' 42.523" | 80° 30' 35.226" | 525478.7 | 817479.9 | 10.33 | 8.78 | | | | | Porewater well |
| 3BS1neartail 40-50 | 25° 46' 42.542" | 80° 30' 35.222" | 525480.6 | 817480.2 | 11.82 | 10.26 | 2.4 | 0.8 | 6.6 | 5.0 | Porewater well |
| 3BS1tail 10-30 | 25° 46' 28.610" | 80° 30' 39.414" | 524072.7 | 817102.3 | 10.13 | 8.57 | | | | | Porewater well |
| 3BS1tail 40-50 | 25° 46' 28.608" | 80° 30' 39.465" | 524072.4 | 817097.6 | 11.59 | 10.03 | 1.0 | -0.6 | 6.3 | 4.7 | Porewater well |
| 3BS1 south (no marker) | 25° 46' 26.14" | 80° 30' 50.58" | 523819.5 | 816082.5 | N/A | N/A | 4.0 | 2.4 | 5.7 | 4.1 | Water sample site (navigated to site by autonomous GPS) |
| 3BS1W1 (well) | (Adjacent to SFWMD survey monument 3BS1-GW1, monument position has been published by SFWMD) | | | | 14.11 | 12.55 | | | | | Surface water well/reference mark in box at top of well |
| 3BS1W1 GW1 | | | | | 12.28 | 10.72 | 2.8 | 1.2 | 5.4 | 3.8 | 2" PVC pipe |
| 3BS1W1 GW2 | | | | | 12.27 | 10.71 | | | | | 3/4" PVC pipe |
| 3BS1-GW1 | 25° 46' 49.35587" | 80° 30' 41.21765" | 526166.518 | 816929.648 | 8.408 | 6.850 | | | | | Stainless steel rod monument |
| 3BS1W2 | (Adjacent to SFWMD survey monument 3BS1-GW2, monument position has been published by SFWMD) | | | | 13.56 | 12.00 | | | | | Reference mark in box at top of well |
| 3BS1W2 GW1 | | | | | 13.49 | 11.93 | | | | | 2" PVC pipe |
| 3BS1W2 GW2 | | | | | 13.49 | 11.93 | 3.1 | 1.5 | 5.5 | 3.9 | 3/4" PVC pipe |
| 3BS1-GW2 | 25° 46' 50.04825" | 80° 30' 25.56275" | 526241.550 | 818360.359 | 7.985 | 6.427 | | | | | Stainless steel rod monument |
| 3BS1W3 | (Adjacent to SFWMD survey monument 3BS1-GW3, monument position has been published by SFWMD) | | | | 13.39 | 11.84 | | | | | Reference mark in box at top of well |
| 3BS1W3 GW1 | | | | | 13.45 | 11.90 | | | | | 2" PVC pipe |
| 3BS1W3 GW2 | | | | | 13.45 | 11.90 | 2.2 | 0.6 | 6.2 | 4.6 | 3/4" PVC pipe |
| 3BS1-GW3 | 25° 46' 26.98576" | 80° 30' 34.43400" | 523910.357 | 817558.129 | 8.644 | 7.086 | | | | | Stainless steel rod monument |
| 3BS1W4 | (Adjacent to SFWMD survey monument 3BS1-GW4, monument position has been published by SFWMD) | | | | 13.80 | 12.24 | | | | | Reference mark in box at top of well |
| 3BS1W4 GW1 | | | | | 13.82 | 12.26 | | | | | 2" PVC pipe |
| 3BS1W4 GW2 | | | | | 13.84 | 12.28 | 8.9 | 7.3 | 10.1 | 8.5 | 3/4" PVC pipe |
| TREE E N | 25° 46' 44.35992" | 80° 30' 35.56781" | 525663.647 | 817447.962 | 10.436 | 8.878 | | | | | Stainless steel rod monument (at 3BS1W4 well cluster) |
| TREE E C | 25° 46' 42.68840" | 80° 30' 35.36598" | 525495.364 | 817467.037 | 8.991 | 7.433 | N/A | N/A | N/A | N/A | Stainless steel rod monument (near the neartail SET markers) |

MAP OF A SPECIFIC PURPOSE SURVEY OF TREE ISLAND 3BS1

SITUATE IN MIAMI-DADE COUNTY, FLORIDA

PREPARED BY KEITH AND SCHMARS, P.A.

KEITH AND SCHMARS, P.A.
ENGINEERS - PLANNERS - SURVEYORS
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3301 GUN CLUB ROAD
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| DATE: SEPTEMBER 26, 2007 | DATE: SEPTEMBER 26, 2007 |
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| DRAWN: [] | CHECKED: [] |
| DATE: [] | DATE: [] |
| REV: [] | REV: [] |

FILE NO. _____
DRAWING NO. _____
SHEET 3 OF 3