



**RESPONSES TO REQUEST FOR  
INFORMATION  
CONSTRUCTION PERMIT APPLICATION  
FOR OPERATIONAL TESTING  
OUA WWTF EXPANSION  
OKEECHOBEE, FLORIDA  
FDEP FILE NO.: 40824-071-UC**

*FEBRUARY 27, 2009*

**Andreyev  
Engineering,  
Inc.**

- ▼ *Groundwater*
- ▼ *Environmental*
- ▼ *Geotechnical*
- ▼ *Materials Testing*

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# Andreyev Engineering, Inc.

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▼ Groundwater ▼ Environmental ▼ Geotechnical ▼ Construction Materials Testing

February 27, 2009  
AEI Project No.: GPGW-05-0430

To: Florida Department of Environmental Protection  
400 N. Congress Avenue  
Suite 200  
West Palm Beach, Florida 33401

Attention: Mr. Joseph May, P.G.  
Program Manager, Underground Injection Control

Subject: Responses to Request for Information (RFI) dated January 28, 2009  
Construction Permit Application for Operational Testing – OUA WWTP  
FDEP File No.: 40824-071-UC  
Okeechobee Utility Authority (OUA) Wastewater Treatment Facility Expansion  
Okeechobee, Florida

Dear Mr. May:

On behalf of the Okeechobee Utility Authority (OUA), Andreyev Engineering, Inc. (AEI) is pleased to submit the following responses to the RFI comments received from you in connection with the construction permit application for operational testing of the exploratory/injection well at the OUA Wastewater Treatment Facility expansion located at 1335 39<sup>th</sup> Boulevard (Cemetery Road) in Okeechobee, Florida.

Please continue with the review of this application. Thank you in advance for your assistance and for an expeditious review.

Should you have any questions or comments regarding the information presented herein, please do not hesitate to contact the undersigned at 407-330-7763.

Sincerely,  
ANDREYEV ENGINEERING, INC.

  
Raymond W. Jones, P.E.  
Vice-President  
Florida Registration No.: 58079



## Responses to FDEP RFI dated January 28, 2009

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1. *Part 2, Page 1 states that a construction summary report will be submitted in the next few weeks. Please state when this report will be submitted. It is preferred that it is submitted as part of the response to this RFI. This construction summary report will be reviewed with the responses to these comments when it is received, as part of this construction application to operationally test.*

The report on the construction and testing of EW-1 and DZMW-1 entitled "Report on the Construction and Testing of Exploratory well EW-1 and Monitor Well DZMW-1 at the Okeechobee Utility Authority Cemetery Road Wastewater Treatment Facility, Vo. 1 and 2" is attached herewith as Appendix 1.

2. *Part 3, Table 1, Summary of Well Survey Results – According to the footnotes at the end of Table 1, the estimated well depths were determined from Okeechobee County. The depths of the wells that are listed as being located by other sources, such as the Water Management District, should also be listed and referenced accordingly. E.g. the wells at the Boy's School also shown on Figures 3 and 4.*

The wells listed in the summary of well survey results in Table 1 are the wells listed with Okeechobee County Health Department. The larger capacity wells within the area of review (AOR) were permitted by the South Florida Water Management District (SFWMD) and have been listed separately in the attached Table 1A.

3. *Part 4, Figures 1, 2, 3, and 4 – What does the dark line identified as "Property Boundary" and "Approximate Project Boundary" represent?*

The dark line in Figures 1, 2, 3 and 4 represents "Approximate Project Boundary" indicating the overall area within the Okeechobee Utility Authority's Cemetery Road Waste Water Treatment Facility (WWTF) site. The corrected Figures 1, 2, 3 and 4 are attached.

4. *Part 4, Figures 2, 3 and 4 – The Legend identifies a "proposed deep injection well location" and a "proposed exploratory well/... location". The figures and the description imply that these are two separate wells, to be constructed in the future, and will be located immediately next to each other. This is implying that there will be two future wells, and that none currently exist. Also the locations shown on Figures 3 and 4 are slightly different, with the Figure 4 location being closer to the section line. The exploratory well is already constructed and is the same as the injection well. Please provide clarification, revised descriptions and resubmit the amended drawings accordingly to properly identify the accurate status of the wells and their locations.*

The legends and well locations in Figures 2, 3 and 4 have been corrected and the corrected Figures 2, 3 and 4 are attached.

5. *Part 4, Figures 6, 7, and 8) - As required by Rule 62-528.450, F.A.C., please identify the base of underground sources of drinking water (USDWs) on these cross sections.*

The base of the underground source of drinking water (USDW) at the OUA injection well site is 1,825 feet below land surface. The amended Figures 6, 7 and 8 showing the base of the USDW are attached.

6. *Part 3, Table 2, Proposed Monitoring Program – Since this well must meet high level disinfection treatment requirements and is used for the disposal of domestic wastewater the following parameters will be required to*

be monitored and reported in addition to the list in Table 2. Please resubmit, Table 2, Proposed Monitoring Program to include these parameters.

Injection Wells:

<u>Parameter:</u>	<u>Reporting Frequency:</u>
Maximum, minimum, and average pressure	daily/monthly
Maximum, minimum, and average flow	daily/monthly
Total volume effluent injected	daily/monthly

Wastestream:

<u>Parameter:</u>	<u>Reporting Frequency:</u>
Ammonia (mg/L)	monthly
Total Kjeldahl Nitrogen (mg/L)	monthly
Nitrate + Nitrite as N (mg/L)	monthly
Total Suspended Solids (TSS)* (mg/L)	daily
Maximum Total Suspended Solids (TSS)* (mg/L)	monthly
Average Total Suspended Solids (TSS)* (mg/L)	monthly
Fecal Coliform (number/100 mL)	daily
Fecal Coliform (number/100mL), percent below detection limit	monthly
Fecal Coliform (number/100 mL), maximum	monthly

\*All TSS samples shall be grab samples. The samples are to be taken after filtration and before disinfection.

Both Monitor Zones:

<u>Parameter:</u>	<u>Reporting Frequency:</u>
Maximum, minimum, and Average water level (ft. NAVD) or pressure (psi)	daily/monthly
Ammonia (mg/L)	weekly
Total Kjeldahl Nitrogen (mg/L)	weekly
Iron (mg/L)	monthly

Carbonate may be dropped from the sampling program due to extremely low values in the Floridan aquifer.

The proposed monitoring program has been modified as suggested and the revised monitoring program is shown in attached Table 2.

7. Part 2, Page 8, Item 8. Please clarify the statement "The interval in the Boulder zone is characterized by a very large diameter borehole with a maximum diameter of 45-inches", which is contrary to what is shown in Part 4, Figures 11 and 12 showing a nominal diameter of 22.5-inches.

Figures 11 and 12 are schematic drawings based on well design drawings that are meant to depict that a nominal 22.5-inch diameter drill bit was used to drill the open hole interval of EW-1. The attached Figures 11 and 12 have been modified to indicate that the borehole was drilled with a nominal 22.5-inch diameter drill bit and the diameter of the open borehole below the depth of 2,765 feet is variable.

8. Please submit the as-built diagram of the monitor well and identify it as such.

The as-built diagram of the dual zone monitoring well is shown in the attached Figure 14.

9. *Part 4, Figure 12 – Is this the as-built diagram for the exploratory well?*

The as-built diagram of the exploratory well in Figure 12 has been corrected and the corrected Figure 12 is attached.

10. *Part 2, Page 9, Item 14; and, Part 9, Appendix 5 – The pressure test results could not be found in Appendix 5, as referenced on Page 9. Please submit the pressure testing and cement bond log information with interpretations.*

Both the exploratory well, EW-1 and dual zone monitoring well, DZMW-1 have been pressure tested and logged for cement bond logging (CBL). The details of these tests and interpretations are presented as a part of Mechanical Integrity Testing (MIT) in the "Report on the Construction and Testing of Exploratory well EW-1 and Monitor Well DZMW-1 at the Okeechobee Utility Authority Cemetery Road Wastewater Treatment Facility, Vol. 1 and 2" and attached herewith as Appendix 1.

11. *As required by Rule 62-528.435(9), F.A.C., the permittee must demonstrate and maintain financial responsibility and resources necessary to close, plug, and abandon the underground injection system. Please submit the original "Certification of Financial Responsibility" and documentation supporting the demonstration of financial responsibility (see below) to Mr. Joe Haberfeld, FDEP, Mail Station 3530, Bureau of Water Facilities, 2600 Blair Stone Road, Tallahassee, FL, 32399-2400. If the facility is defined as a local government, the documentation listed below can be used to demonstrate financial responsibility. Injection well facilities that are non-local governments must refer to the "State of Florida Underground Injection Control Program Financial Responsibility Options for Owners and Operators of Injection Wells" (1996) for requirements to obtain financial certification. Please submit a copy of the transmittal letter for any financial responsibility documentation to the technical advisory committee chairman in the West Palm Beach office.*

*The required documentation for a local government is:*

- a. *A letter from the City's attorney identifying the attorney as representing the City, and attesting that:*
  - *the City meets the definition of a local government as specified in Chapter 218, F.S., and*
  - *the City is covered under Part V of Chapter 218, F.S., Financial Emergencies;*
- b. *A notarized Certification of Financial Responsibility, signed by an individual authorized to bind the local government to such an agreement, which certifies unconditionally the obligation of the City to perform plugging and abandonment of its injection well system for each injection and monitoring well;*
- c. *A plugging and abandonment plan for the injection well system to include narrative, itemized cost estimates, and drawings. The itemized cost estimates should be broken out to show the separate cost of plugging and abandoning both the injection well and monitor well (both zones). A twenty percent contingency should be included in the cost estimate for both the injection and monitor wells. As required by Rule 62-528.435(7), F.A.C., "the final or innermost string of casing shall be filled with neat cement grout or an approved equivalent from a depth of at least 10 feet below the bottom of the casing to land surface" for the injection well. The plugging plan should reflect this requirement.*
- d. *An audited financial report for the City's most recently completed fiscal year.*

A letter from the counsel for the Okeechobee Utility Authority stating that the Okeechobee Utility Authority is a local government agency and is not in a state of financial emergency as defined under Section 218.503, Florida Statutes, is attached.

12. *Part 1, Application Form - There is no professional engineer embossing impression seal affixed on application form page 3 of 14. Please resubmit the application with the professional engineer embossing impression seal affixed.*

The signed and sealed page 3 of 14 of the application form is attached.

13. *Pursuant to Rule 62-528.440(5)(b), FAC, the Well Construction & Testing drawings shall be signed and sealed by a professional engineer registered in the State of Florida. The following drawings do not meet the requirements of Florida Board of Professional Engineers (FBPE) Rule 61G15-23.002, FAC, for the acceptable seals, and signing and sealing of drawings:*

- a. *Figure 1 Site Vicinity Plan,*

A signed and sealed Figure 1 Site Vicinity Plan is attached.

14. *Submit signed and sealed drawings to show:*

- a. *Monitoring well construction details with casing pipe diameter and wall thickness;*  
b. *Design features for surge control and water hammer protection;*  
c. *Effluent pump station, surface/subsurface suction/discharge piping to the injection well(s), filters; valves etc., and flow control arrangement, if any;*  
d. *Process flow diagram showing the wet well, effluent pump(s), suction & discharge piping, piping accessories and other equipment up to the injection well(s);*

- a. The signed and sealed drawing showing the construction details of the dual zone monitoring well is shown in attached Figure 14.

- b. As a design feature for surge control and water hammer protection, the pumps are equipped with adjustable frequency drives. The adjustable frequency drives make the pumps run at low speeds during low flow times and ramp up as necessary with the increase of flow. This adjustable speed puts much less strain on the pumps and prevents surges.

- c. The effluent pump station, piping, filters and valves are detailed in drawing Nos. M-20, M-21, M-22 and M-23 in the drawing package entitled "Okeechobee Utility Authority, Plans for the Construction of the Wastewater Treatment Plant Expansion to 3.0 MGD" prepared by Metzger and Willard, Inc. and attached herewith as Appendix 2.

- d. The process flow diagrams are shown in drawings C-9, C-12, C-13, M-20, M-21, M-22 and M-23 of the construction drawings prepared by Metzger and Willard, Inc. and attached as Appendix 2.

15. *Process and instrumentation drawing, signed and sealed, to address Rule 62-528.425(1)(b), FAC, to show the planned installation of:*

- a. *Continuous indicating, recording, and totalizing devices to monitor flow rate and volume.*  
b. *Continuous indicating and recording devices to monitor injection pressure at the well.*

- a. The signed and sealed process and instrumentation drawings are shown as PID-1 and PID-2 in the Metzger and Willard drawing sets. All flow rate, totalizers, and injection pressure monitors report to the SCDA system through the local PLC. The software maintains records

and backs up as directed by the Operator of the Waste Water Treatment Facility (WWTF).

b. Please see response to item 15.a. above.

16. *Pursuant to Rule 62-528.410(1)(c), FAC, please address the problem of corrosion, proposed protective measure(s), and, when appropriate, proposed methods of monitoring. The applicant shall consider thickness and type of cement, number and thickness of casings, casing material, casing coatings, formation fluid (water) quality, injection fluid quality and life expectancy of the well.*

The wells have a life expectancy of 60 years. EW-1 was constructed with 54, 44, 36, and 24-inch diameter, low-carbon, mild steel casings. Each of the casings has a wall thickness of 0.375-inches with the exception of the 24-inch diameter casing, which has a wall thickness of 0.5-inches. The final casing is surrounded with 5-inches of ASTM C 150, Type II cement. The other casings are encased in a minimum of 4-inches of cement on both the back-side and inside the casing. The casing wall thickness and cementing program were designed to protect the well from a loss of integrity due to corrosion. Mechanical integrity testing, which will include a video inspection of the inside of the final casing, high-resolution temperature logging, pressure testing of the final casing, and performance of a radioactive tracer survey, will be performed on EW-1 every 5 years. This testing will allow monitoring of the well for adverse impacts related to corrosion.

The dual zone monitoring well, DZMW-1 was constructed with 34, 24, and 16-inch diameter, low-carbon, mild steel casings and a 6.625-inch diameter FRP casing. The 34 and 24-inch diameter casings have a wall thickness of 0.375-inches and are encased in a minimum of 4-inches of cement on both the backside and inside of the casing. The 16-inch diameter casing has a wall thickness of 0.5-inches. The FRP casing was selected due to its resistance to corrosion. The casing wall thickness and cementing program were designed to protect the well from a loss of integrity due to corrosion. Pressure in both monitor zones will be monitored continuously to detect any loss of integrity in the 16-inch and 6.625-inch diameter casings.

17. *Pursuant to Rule 62-600.540(4), FAC, for automatic devices used to monitor flow and pressure, please submit documents to show manual backup capability to monitor wellhead pressure and flow.*

Pressure transmitters will provide information to the local PLC and then to the SCADA system. The PLC units are provided with Uninterruptible Power Supplies (UPS). The Waste Water Treatment Facility is provided with a back up emergency power generation system. Still, manual read pressure gauge units are provided to allow manual back up monitoring. The well head is provided with a 2½" manually readable pressure gauge as shown in the Exploratory/Injection Well Head Detail (attached Figure 11). Drawing M-23 of the Metzger and Willard drawing set shows the location of a manually readable pressure gauge for the pumping system.

18. *Pursuant to Rule 62-600.540(4)(a), FAC, please submit documents to show the effluent pumping station shall be protected from lightning and transient voltage surges. As a minimum, stations shall be equipped with lightning arrestors, surge capacitors or other similar protection devices, and phase protection.*

The effluent pump station is powered through MC-400. A surge protection device (30A) is provided for the panel. These are shown on the electrical drawings used to construct the Waste Water Treatment facility under DEP Permit FLA013888.

The pumps have integrally mounted thermal switches to indicate motor overloads (which shut



down the pumps). The pumps are also provided with thermally mounted conductance probes to indicate seal failures (which also shut down the pumps). An alarm is sent through the PLC system to the SCADA unit to the Plant Operators. The SCADA system is linked to the PLC system through the use of Fiber Optic cables.

For phase protection, phase monitors have been provided at appropriate locations.

19. *Please submit: Certificate of completion by the engineer of record {Rule 62-528.455(1)(c)3, FAC.; and (B)(1)c of DEP Form 62-528.900(1)}.*

Certification by the engineer of record on the construction and testing of Exploratory Well EW-1 and Monitor Well DZMW-1 are included in the "Report on the Construction and Testing of Exploratory well EW-1 and Monitor Well DZMW-1 at the Okeechobee Utility Authority Cemetery Road Wastewater Treatment Facility, Vol. 1 attached herewith as Appendix 1.

20. *Please submit: surface equipment (including pumping station, piping, pressure gauges and flow meters and all appurtenances) completion certificate.*

The completion certificate for surface equipment will be submitted within the next 30 days as part of the operation and maintenance manual (O & M Manual).

21. *Please submit: Draft operation & maintenance manual including description of surge and water hammer control and emergency discharge management plan procedures.*

The operation and maintenance manual (O & M Manual) will be submitted within the next 30 days.

22. *Please submit: Emergency discharge system must be fully constructed and operational (ready to operate) prior to approval of operational testing.*

Details of the emergency discharge system will be covered in the operation and maintenance manual (O & M Manual) that will be submitted within the next 30 days.

23. *Please submit: Calibration certificates for pressure gauges and flow meters.*

The calibration certificates for pressure gauges and flow meters will be included in the operation and maintenance manual (O & M Manual) that will be submitted within the next 30 days.

24. *Please submit: copies of mill certificates for casing used in the well(s) construction {Rule 62-528.455(1)(c)7, FAC}.*

Mill certificates of the casings used in the Exploratory Well EW-1 and the Monitoring Well DZMW-1 are included in Appendix G of the "Report on the Construction and Testing of Exploratory well EW-1 and Monitor Well DZMW-1 at the Okeechobee Utility Authority Cemetery Road Wastewater Treatment Facility, Vo. 1" attached herewith as Appendix 1.

25. *Please submit: Signed and sealed record "a-built/record" engineering drawings of the injection well system including all well construction, subsurface and surface piping and equipment and appurtenances.*

- a. *Facility location plan;*
- b. *Process flow diagram;*
- c. *Injection well(s) construction;*
- d. *Injection well(s) head details;*

- e. Monitor well(s) construction;*
- f. Monitor well(s) head details;*
- g. Inlet piping from WWTP/WTP;*
- h. Location of sampling points for the effluent;*
- i. Flow equalization system, if any; wet well(s) or effluent storage tanks;*
- j. Pump station and surface/subsurface suction/discharge piping to the injection well(s), filters; valves etc.; Flow control arrangement, if any;*
- k. Surge control and water hammer protection;*
- l. Instruments and other devices (indicators & transmitters to monitor pressure, flow rate and total volume to comply with Rule 62-528.425(1)(b), FAC);*
- m. Monitor well(s) purge piping, sample points and separation of sampling lines from other lines to prevent cross connection and intended disposal method of purge water;*

Please see the attached signed and sealed drawings (Figures 11 and 13 and Metzger & Willard, Inc. construction plans provided in Appendix 2).

## TABLES

Table 1A

**Summary of South Florida Water Management District Well Survey Results**

<b>Station ID</b>	<b>Station Name</b>	<b>Applicant</b>	<b>Permit No.</b>	<b>Diameter (inches)</b>	<b>Total Depth (feet)</b>	<b>Casing Depth (feet)</b>
32020	15-8	Eckerd Youth Development Center	47-00059-W	12	160	135
32021	15-5	Eckerd Youth Development Center	47-00059-W	12	160	135
32024	15-6	Eckerd Youth Development Center	47-00059-W	12	750	600

**Table 1  
Summary of Well Survey Results**

For all parcels unless otherwise stated: No well observed, but no city water available.

Map ID	Parcel ID	Property Owner	Property Address	Comments
1	<u>1-26-36-35-0A00-00001-0000</u>	WILLIAMSON CATTLE COMPANY BOX 248 OKEECHOBEE, FL 349730248	8200 NE 12TH DR, Okeechobee	Grove w/ S Single Family Residence (1 SFR well and 1 grove well assumed)
2	<u>1-27-36-35-0A00-00001-0000</u>	WILLIAMSON CATTLE COMPANY BOX 248 OKEECHOBEE, FL 349730248	0 , Okeechobee	Imp. Pasture No Bldgs
3	<u>1-27-36-35-0A00-00002-0000</u>	SMITH WILLIAM ALLEN JR & NICKLEEN R 8901 HWY 441 N OKEECHOBEE, FL 34972	0 , Okeechobee	Imp. Pasture No Bldgs
4	<u>1-28-36-35-0A00-00002-0000</u>	SMITH WILLIAM ALLEN JR & NICKLEEN R 8901 HWY 441 N OKEECHOBEE, FL 34972	0 , Okeechobee	Imp. Pasture No Bldgs (1 well assumed) [outside AOR]
5	<u>1-28-36-35-0A00-00003-0000 05</u>	SOUTH FLA WATER MGMT DIST ATTN: LAND MANAGEMENT PO BOX 24680 WEST PALM BEACH, FL 33416	0 , Okeechobee	Water M. D. Imp. Pasture No Bldgs [outside AOR]
6	<u>1-27-36-35-0A00-00002-A000 05</u>	SOUTH FLA WATER MGMT DIST ATTN: LAND MANAGEMENT PO BOX 24680 WEST PALM BEACH, FL 33416	0 , Okeechobee	Water M. D. Imp. Pasture No Bldgs
7	<u>1-27-36-35-0A00-00003-0000 05</u>	TIITF/HRS-YOUTH SERVICE FLORIDA SCHOOL FOR BOYS 3900 COMMONWEALTH BLVD TALLAHASSEE, FL 323996575	7200 HWY 441 N , Okeechobee	Boys School Bldgs onsite 3 wells onsite per SFWMD website
8	<u>1-26-36-35-0A00-00002-0000 05</u>	TIITF/HRS-YOUTH SERVICE FLORIDA SCHOOL FOR BOYS 3900 COMMONWEALTH BLVD TALLAHASSEE, FL 323996575	0 , Okeechobee	Boys School No Bldgs onsite
9	<u>1-35-36-35-0A00-00002-0000</u>	WILLIAMSON CATTLE COMPANY BOX 248 OKEECHOBEE, FL 349730248	2400 NE 39TH BLVD, Okeechobee	Boys School No Bldgs onsite
10	<u>1-35-36-35-0A00-00003-0000 05</u>	TIITF/HRS-YOUTH SERVICE FLORIDA SCHOOL FOR BOYS 3900 COMMONWEALTH BLVD TALLAHASSEE, FL 323996575	2145 NE 39TH BLVD, Okeechobee	Boys School No Bldgs onsite
11	<u>1-34-36-35-0A00-00001-0000 05</u>	TIITF/HRS-YOUTH SERVICE FLORIDA SCHOOL FOR BOYS 3900 COMMONWEALTH BLVD TALLAHASSEE, FL 323996575	1117 NE 39TH BLVD, Okeechobee	Boys School 5 Bldgs onsite (wells assumed)
12	<u>1-34-36-35-0A00-00002-A000 05</u>	SOUTH FLA WATER MGMT DIST ATTN: LAND MANAGEMENT PO BOX 24680 WEST PALM BEACH, FL 33416	0 , Okeechobee	Water M. D. No Bldgs
13	<u>1-33-36-35-0A00-00001-8000 05</u>	SOUTH FLA WATER MGMT DIST ATTN: LAND MANAGEMENT PO BOX 24680 WEST PALM BEACH, FL 33416	0 , Okeechobee	Water M. D. No Bldgs [outside AOR]
14	<u>1-33-36-35-0A00-00001-A000</u>	SOUTH FLA WATER MGMT DIST %GRASSY ISLAND RANCH PO BOX 12909 FT PIERCE, FL 349790000	926 NW 50TH DR, Okeechobee	Imp. Pasture No Bldgs [outside AOR]
15	<u>1-33-36-35-0A00-00001-C000 01</u>	SOUTH FLA WATER MGMT DIST %OKEECHOBEE COUNTY SCHOOL BRD	0 , Okeechobee	Imp. Pasture No Bldgs [outside AOR]
16	<u>1-34-36-35-0A00-00002-0000 01</u>	SOUTH FLA WATER MGMT DIST %OKEECHOBEE COUNTY SCHOOL BRD	0 , Okeechobee	Imp. Pasture No Bldgs [outside AOR]
17	<u>1-35-36-35-0050-00000-W400</u>	R-BAR ESTATES UNIT NO 5 ASSOCI 12575 HWY 70 E OKEECHOBEE, FL 34972	0 , Okeechobee	Vacant



18	<u>1-35-36-35-0050-00000-1370</u>	JACKSON IAN G & HYDIE H 6355 COMMODORE DRIVE JACKSONVILLE, FL 322440000	2749 NE 62ND PKWY, Okeechobee	Vacant
19	<u>1-35-36-35-0050-00000-1360 HX</u>	MOLYNEAUX LISA 2703 NE 62ND PARKWAY OKEECHOBEE, FL 34972	2703 NE 62ND PKWY, Okeechobee	Single Family Residence (1 well assumed)
20	<u>1-35-36-35-0050-00000-1350</u>	CALIXTO FRANK & CALIXTO LUIS 12948 SW 143RD TERRACE MIAMI, FL 331868942	2637 NE 62ND PKWY, Okeechobee	Vacant
21	<u>1-35-36-35-0050-00000-1340</u>	RAULERSON TODD 1336 SW 18TH TERRACE OKEECHOBEE, FL 34974	2619 NE 62ND PKWY, Okeechobee	Vacant
22	<u>1-35-36-35-0050-00000-1500</u>	KESSLER MARC A 17812 TANGERINE BLVD LOXAHATCHEE, FL 33470	0 , Okeechobee	Vacant
23	<u>1-35-36-35-0050-00000-1490</u>	ASEERE ROBERT CARL JR & ASEERE ANTHONY 1080 SE 6TH TERRACE POMPANO BEACH, FL 33060	2628 NE 62ND PKWY, Okeechobee	Vacant
24	<u>1-35-36-35-0050-00000-1480</u>	LAFFERTY STEVEN & JENNIFER 7285 SW 9TH STREET OKEECHOBEE, FL 34974	2640 NE 62ND PKWY, Okeechobee	Vacant
25	<u>1-35-36-35-0050-00000-1470</u>	RAMOS EZEQUIEL & CLAUDIA C 13910 SW 71ST LANE MIAMI, FL 33183	2712 NE 62ND PKWY, Okeechobee	Vacant
26	<u>1-35-36-35-0050-00000-1460</u>	ANDERSON WILLIAM T & BARBARA A 6795 SOUTH FEDERAL HWY US 1 PORT ST LUCIE, FL 34952	2752 NE 62ND PKWY, Okeechobee	Vacant
27	<u>1-35-36-35-0050-00000-1450</u>	RUCKS HANK & CATHERINE 2201 SW 28TH STREET #61 OKEECHOBEE, FL 34974	2784 NE 62ND PKWY, Okeechobee	Vacant
28	<u>1-35-36-35-0050-00000-W200</u>	R-BAR ESTATES UNIT NO 5 ASSOCI 12575 HWY 70 E OKEECHOBEE, FL 34972	0 , Okeechobee	Vacant
29	<u>1-35-36-35-0050-00000-1440</u>	CONROY RONNIE T & BARBARA J 6618 NORTHLAKE DRIVE ZEPHYRHILLS, FL 33542	2920 NE 62ND PKWY, Okeechobee	Vacant
30	<u>1-35-36-35-0050-00000-1430</u>	EMMONDS BRIAN K & DEONNA K 598 SW NADELL AVENUE PORT ST LUCIE, FL 34953	2938 NE 62ND PKWY, Okeechobee	Vacant
31	<u>1-35-36-35-0050-00000-1420</u>	GJ-GEORGIA PROPERTIES INC 12575 HWY 70 E OKEECHOBEE, FL 34972	2954 NE 62ND PKWY, Okeechobee	Vacant
32	<u>1-35-36-35-0050-00000-1410</u>	GJ-GEORGIA PROPERTIES INC 12575 HWY 70 E OKEECHOBEE, FL 34972	3018 NE 62ND PKWY, Okeechobee	Vacant [outside AOR]
33	<u>1-35-36-35-0050-00000-1400</u>	AGUILAR JESUS & MARIBEL 18244 SW 146TH COURT MIAMI, FL 33177	3015 NE 62ND PKWY, Okeechobee	Vacant [outside AOR]
34	<u>1-35-36-35-0050-00000-W300</u>	R-BAR ESTATES UNIT NO 5 ASSOCI 12575 HWY 70 E OKEECHOBEE, FL 34972	0 , Okeechobee	Vacant [outside AOR]
35	<u>1-35-36-35-0050-00000-1390</u>	CROLEY MARK T 440 LOUISIANA STREET STE 1750 HOUSTON, TX 77002	2957 NE 62ND PKWY, Okeechobee	Vacant
36	<u>1-35-36-35-0050-00000-1380</u>	CROLEY MARK T 440 LOUISIANA STREET STE 1750 HOUSTON, TX 77002	2931 NE 62ND PKWY, Okeechobee	Vacant
37	<u>1-35-36-35-0050-00000-1570</u>	BROWN WILLIAM M & ADELA 28 MOONEY ROAD NE FORT WALTON BEACH, FL 32547	2851 NE 58TH DR, Okeechobee	Vacant
38	<u>1-35-36-35-0050-00000-1560</u>	BROWN ROBERT M & SUSAN L 2441 SW MAPLEWOOD DRIVE PALM CITY, FL 34990	2837 NE 58TH DR, Okeechobee	Vacant
39	<u>1-35-36-35-0050-00000-1550</u>	MURCHISON JULIA B PO BOX 956 OKEECHOBEE, FL 349730956	2815 NE 58TH DR, Okeechobee	Vacant

40	<u>1-35-36-35-0050-00000-1540</u>	WYATT DANIEL W 5601 SW 3RD COURT FORT LAUDERDALE, FL 33317	2741 NE 58TH DR, Okeechobee	Vacant
41	<u>1-35-36-35-0050-00000-1530</u>	LITTON RALPH M & BENITA F 1999 SW DELMONICO AVENUE PORT SAINT LUCIE, FL 34953	2711 NE 58TH DR, Okeechobee	Vacant
42	<u>1-35-36-35-0050-00000-1520</u>	LOMASTRO MICHAEL S & SHELLEY R 8686 PINION DRIVE LAKE WORTH, FL 33467	2629 NE 58TH DR, Okeechobee	Vacant
43	<u>1-35-36-35-0050-00000-1510</u>	GROSO JESUS A & IBIS M 5004 SE 43RD TRACE OKEECHOBEE, FL 34974	0 , Okeechobee	Vacant
44	<u>1-35-36-35-0050-00000-1580</u>	COOPER AUDREY L TRUSTEE 7700 BETA CIRCLE WEST PALM BEACH, FL 33406	0 , Okeechobee	Vacant
45	<u>1-35-36-35-0050-00000-1590</u>	BUTLER JAMES H & JOANN 17105 TANGERINE BLVD LOXAHATCHEE, FL 33470	2718 NE 58TH DR, Okeechobee	Vacant
46	<u>1-35-36-35-0050-00000-1600</u>	BUTLER JAMES H & JOANN 17105 TANGERINE BLVD LOXAHATCHEE, FL 33470	2624 NE 58TH DR, Okeechobee	Vacant
47	<u>1-35-36-35-0050-00000-1610</u>	SORIANO GERARD & CRISELDA 3720 SE 5TH TERRACE OKEECHOBEE, FL 34974	2612 NE 58TH DR, Okeechobee	Vacant
48	<u>1-35-36-35-0050-00000-1620</u>	MAVROIDES CHRISTOPHER & BONNIE 5775 NE 56TH PARKWAY OKEECHOBEE, FL 34974	2832 NE 54TH TRL, Okeechobee	Vacant
49	<u>1-35-36-35-0050-00000-1630</u>	VEITCH FREDERICK & FLORENCE 820 US ROUTE 11 BOX 105 CENTRAL SQUARE, NY 13036	2824 NE 54TH TRL, Okeechobee	Vacant
50	<u>1-35-36-35-0050-00000-1640</u>	OTERO-HERNANDEZ ANGEL & OTERO ROSALBA 709 WISTERIA AVENUE FT PIERCE, FL 349825876	2760 NE 54TH TRL, Okeechobee	Vacant
51	<u>1-35-36-35-0030-00000-0850</u>	PRINGLE PATRICIA J & ALAN D 2821 NE 56TH PKWY OKEECHOBEE, FL 34972	2821 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
52	<u>1-35-36-35-0030-00000-0840 HX</u>	GRIFFIS ROY E & SARAH L 5461 NE 56TH PARKWAY OKEECHOBEE, FL 34972	5461 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
53	<u>1-35-36-35-0030-00000-0830</u>	MAVROIDES CHRISTOPHER & BONNIE 5775 NE 56TH PARKWAY OKEECHOBEE, FL 34972	5643 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
54	<u>1-35-36-35-0030-00000-0830</u>	MAVROIDES CHRISTOPHER & BONNIE 5775 NE 56TH PARKWAY OKEECHOBEE, FL 34972	5643 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
55	Parcel is Not Found in Property Database			
56	<u>1-35-36-35-0030-00000-0800</u>	MAVROIDES CHRISTOPHER & BONNIE 5775 NE 56TH PKWY OKEECHOBEE, FL 349720000	5775 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
57	<u>1-35-36-35-0030-00000-0790</u>	HOWELL PAUL E & CHERYLL Y 5865 NE 56TH PKWY OKEECHOBEE, FL 34972	5865 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
58	<u>1-35-36-35-0030-00000-0780</u>	BUENAVENTURA ITALO F & HOLLY 5895 NE 56TH PKWY OKEECHOBEE, FL 34972	5850 NE 50TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
59	<u>1-35-36-35-0030-00000-0770</u>	WHIDDEN JOHN C & LISA M 5890 NE 56TH PARKWAY OKEECHOBEE, FL 34972	5890 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
60	Parcel is Not Found in Property Database			
61	<u>1-35-36-35-0030-00000-0750</u>	HARRISON HOWARD D & LISA L 5790 NE 56TH PARKWAY OKEECHOBEE, FL 34972	5790 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)

62	1-35-36-35-0030-00000-0740	TINDALL DANA L & LISA L 5730 NE 56TH PKWY OKEECHOBEE, FL 34972	5730 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
63	1-35-36-35-0030-00000-0730	SHARPE LARRY & DEANNA 5650 NE 56 PARKWAY OKEECHOBEE, FL 34972	5650 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
64	1-35-36-35-0030-00000-0720	SPEE GERARD A & ANITA L & SPEE CINDY CLAUDETTE 5610 NE 56TH PARKWAY OKEECHOBEE, FL 34972	5610 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
65	1-35-36-35-0030-00000-0710	OAKVIEW BAPTIST CHURCH OF OKEE 677 SW 32ND STREET OKEECHOBEE, FL 349740000	5424 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
66	1-35-36-35-0030-00000-0700	CRAWFORD NEAL J & KRISTENE R 5418 NE 53RD WAY OKEECHOBEE, FL 349728660	5418 NE 53RD WAY, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
67	1-35-36-35-0030-00000-0690	DRAWDY JAMES R JR & KAREN M 5410 NE 53RD WAY OKEECHOBEE, FL 34972	5410 NE 53RD WAY, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
68	1-35-36-35-0030-00000-0680	SELOVER HAROLD HAVLIN JR 5420 NE 53RD WAY OKEECHOBEE, FL 34972	5420 NE 53RD WAY, 34972	Single Family Residence (1 well assumed) [outside AOR]
69	1-35-36-35-0030-00000-0670	BIG DADDY RENTALS LLC 402 SW 3RD STREET OKEECHOBEE, FL 34974	5417 NE 53RD WAY, Okeechobee	Vacant [outside AOR]
70	1-35-36-35-0030-00000-0660	ARNOLD KENNETH E ETAL TRUSTEE OF OKEECHOBEE MISSIONARY BAPTI PO BOX 1233 OKEECHOBEE, FL 34973	5495 NE 53RD WAY, Okeechobee	Single Family Residence (1 well assumed)
71	1-35-36-35-0030-00000-0650	TENNYSON HOBART A 5380 NE 56TH PKWY OKEECHOBEE, FL 34972	5380 NE 56TH PKWY, Okeechobee	Single Family Residence (1 well assumed)
72	1-35-36-35-0030-00000-0640	BERRY SAMMY JR & EULA MASON 8726 INDIAN RIVER RUN BOYNTON BEACH, FL 334370000	2746 NE 54TH TRL, Okeechobee	Vacant
73	1-35-36-35-0030-00000-0630	LUJAN IVAN DARIO & ZORAIDA M 3761 NW 160TH STREET OKEECHOBEE, FL 34972	2734 NE 54TH TRL, Okeechobee	Vacant
74	1-35-36-35-0020-00000-0610	AYERS MARNIE L 2728 NE 54TH TRAIL OKEECHOBEE, FL 34972	2728 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
75	1-35-36-35-0020-00000-0600	CLAXTON ROBERT E JR & CLAXTON JACQUELINE C 2931 NE 52ND DRIVE OKEECHOBEE, FL 34972	2931 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
76	1-35-36-35-0020-00000-0590	AKINS VANCE TEAL & MICHELLE S 2967 NE 52ND DRIVE OKEECHOBEE, FL 34972	2967 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
77	1-35-36-35-0020-00000-0580	BROWNING ROBERT L & KAREN MARI 2985 NE 52ND DR OKEECHOBEE, FL 34972	2985 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
78	1-35-36-35-0020-00000-0570	JERRELL TOMMY M & RETA S 3003 NE 52ND DRIVE OKEECHOBEE, FL 34972	3003 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
79	1-35-36-35-0020-00000-0560	ARD BRYAN A & JONI L 3030 NE 52ND DRIVE OKEECHOBEE, FL 34972	3030 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
80	1-35-36-35-0020-00000-0550	BAYTON RUTH C 3031 NE 52ND DRIVE OKEECHOBEE, FL 349728607	3031 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
81	1-35-36-35-0020-00000-0540	BUSH JAMES R & KIMBERLY A POST OFFICE BOX 1918 OKEECHOBEE, FL 349730000	3057 NE 52ND DR, 34972	Single Family Residence (1 well assumed) [outside AOR]
82	1-35-36-35-0020-00000-0520	GOLDSTEIN ALAN L & CAROLYN A PO BOX 1431 OKEECHOBEE, FL 349731431	3069 NE 52ND DR, 34972	Single Family Residence (1 well assumed) [outside AOR]

83	1-35-36-35-0020-00000-0510	CLEMENTS GARY L & DEBRA S P O BOX 363 OKEECHOBEE, FL 349730363	3045 NE 52ND DR, Okeechobee	Vacant [outside AOR]
84	1-35-36-35-0020-00000-0500	CLEMENTS GARY & DEBRA S BOX 363 OKEECHOBEE, FL 349730363	3064 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
85	1-35-36-35-0020-00000-0490	SELLERS DONALD R & DEBRA CLEME 2660 NE 54 TRAIL OKEECHOBEE, FL 349720000	3052 NE 52ND DR, Okeechobee	Vacant [outside AOR]
86	1-35-36-35-0020-00000-0480	RIEFFEL ROBERT & KAREN 3028 NE 52 DRIVE OKEECHOBEE, FL 349728607	3028 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
87	1-35-36-35-0020-00000-0470	WITTER SCOTT E, TRUSTEE & WITT 2990 NE 52ND DRIVE OKEECHOBEE, FL 34972	2990 NE 52ND DR, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
88	1-35-36-35-0010-00000-0300	SELLERS DONALD R JR & BRENDA 2720 NE 54TH TRAIL OKEECHOBEE, FL 349728605	2720 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
89	1-35-36-35-0010-00000-0290	HINEBAUGH ROBERT L & SANDRA S 2706 NE 54TH TRAIL OKEECHOBEE, FL 34972	2706 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
90	1-35-36-35-0010-00000-0280	GREEN JAMES A & DOLORES C 2698 N E 54TH TRAIL OKEECHOBEE, FL 349728605	2698 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
91	1-35-36-35-0010-00000-0250	SELLERS DONALD R 2660 NE 54TH TRAIL OKEECHOBEE, FL 349728605	2660 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
92	1-35-36-35-0010-00000-0240	JEFFERS BRUCE M & KELLYE M 2600 NE 54 TRAIL OKEECHOBEE, FL 349728605	2600 NE 54TH TRL, 34972	Single Family Residence (1 well assumed) [outside AOR]
93	1-35-36-35-0010-00000-0230	HORTMAN JIMMIE W & CAROL A 2562 NE 54TH TRAIL OKEECHOBEE, FL 349728605	2562 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed) [outside AOR]
94	1-35-36-35-0010-00000-0220	WALDRON CLIFFORD E & ROSA W 2560 NE 54TH TRAIL OKEECHOBEE, FL 34972	2560 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
95	1-35-36-35-0010-00000-0210	SIRUM ALEX & ROMONA 2464 NE 54TH TRAIL OKEECHOBEE, FL 34972	2464 NE 64TH TRL, Okeechobee	Single Family Residence (1 well assumed)
96	1-35-36-35-0010-00000-0200	FRANKLIN EMMETT & KATHRYN 2388 NE 54 TRAIL OKEECHOBEE, FL 349728603	2388 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
97	1-35-36-35-0010-00000-0190	MILLER JAMES & JERILYNN 2320 NE 54TH TRAIL OKEECHOBEE, FL 34972	2320 NE 54TH TRL, 34972	Single Family Residence (1 well assumed)
98	1-35-36-35-0010-00000-0180	VENABLES PETER S & DAINAE EILE 2258 NE 54TH TRAIL OKEECHOBEE, FL 34972	2258 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
99	1-35-36-35-0010-00000-0170	TURBEVILLE TERRY L & JOI 2198 NE 54TH TRAIL OKEECHOBEE, FL 349728603	2198 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
100	1-35-36-35-0010-00000-0160	HORTMAN AARON VAN & CYNTHIA B 2130 NE 54TH TRAIL OKEECHOBEE, FL 349728603	2130 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
101	1-35-36-35-0010-00000-0150	KOVAC BRUCE & GAIL 2054 NE 54TH TRAIL OKEECHOBEE, FL 34972	2054 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
102	1-35-36-35-0010-00000-017A	HAMRICK & SONS INC 7303 18TH AVENUE NW BRADENTON, FL 342099510	0 , Okeechobee	Vacant
103	1-35-36-35-0010-00000-0140	BURNHAM RANDY L & ANN W C/O BURNHAM DENISE 2411 NE 54TH TRL OKEECHOBEE, FL 34972	1982 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
104	1-35-36-35-0010-00000-0130	BAILE JOHN & NANCY 9801 SW 46TH STREET MIAMI, FL 33165	1956 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)

105	1-35-36-35-0010-00000-0120	LOZANO EDELSIS 1812 NE 50TH COURT OKEECHOBEE, FL 34972	1812 NE 50TH CT, Okeechobee	Single Family Residence (1 well assumed)
106	1-35-36-35-0010-00000-0110	MCCLAIN JEANNE 1766 NE 50TH COURT OKEECHOBEE, FL 34972	1766 NE 50TH CT, Okeechobee	Single Family Residence (1 well assumed)
107	1-35-36-35-0010-00000-0100	ENTRY DORIS %GUTIERREZ JOEL 3740 KENYON ROAD LAKE WORTH, FL 33461	1758 NE 50TH CT, Okeechobee	Single Family Residence (1 well assumed)
108	1-35-36-35-0010-00000-0090	BISHOP PERRY W & JANET PO BOX 907 OKEECHOBEE, FL 349730907	1759 NE 50TH CT, Okeechobee	Single Family Residence (1 well assumed)
109	1-35-36-35-0010-00000-0080	STOKES D DWAYNE & VICKI L 1767 NE 50TH COURT OKEECHOBEE, FL 34972	1767 NE 50TH CT, 34972	Single Family Residence (1 well assumed)
110	1-35-36-35-0010-00000-0070	CORTEZ YOLANDA & WOLFGANG 1781 NE 50TH CT OKEECHOBEE, FL 349720000	1781 NE 50TH CT, Okeechobee	Single Family Residence (1 well assumed)
111	1-35-36-35-0010-00000-0060	HOLLIN ARTHUR JR & CHRYL ANN BOX 332 OKEECHOBEE, FL 34973	1813 NE 50TH CT, 34972	Single Family Residence (1 well assumed)
112	1-35-36-35-0010-00000-0050	GILLIS TIMOTHY D & DEBORAH C 1910 NE 54 TRAIL OKEECHOBEE, FL 349728601	1910 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
113	1-35-36-35-0010-00000-0040	DEES THOMAS M & ADELL 1854 NE 54TH TRAIL OKEECHOBEE, FL 349728601	1854 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
114	1-35-36-35-0010-00000-0030	SIMS FOY M JR & SANDRA J 1796 NE 54TH TRAIL OKEECHOBEE, FL 34972	1796 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
115	1-35-36-35-0010-00000-0010	RIEDEL ROBERT L JR & INDIA S 1676 NE 54TH TRAIL OKEECHOBEE, FL 349728601	1676 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
116	1-35-36-35-0010-00000-0020	SILLS GLEN E & TRACY A 9450 NE 6TH WAY OKEECHOBEE, FL 34972	1608 NE 39TH BLVD, Okeechobee	Vacant
117	1-34-36-35-0A00-00005-A000	KEMP JERRY M & BRENDA S 1508 NE 39TH BLVD OKEECHOBEE, FL 349720000	1508 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
118	1-34-36-35-0A00-00005-0000	BOWMAN BRYANT & CINDY 140A CHOBEE STREET OKEECHOBEE, FL 349740000	1402 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
119	1-34-36-35-0A00-00005-B000	HEALEY MARY K (LIFE ESTATE) 1350 NE 39TH BLVD OKEECHOBEE, FL 349728628	1350 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
120	1-34-36-35-0A00-00005-C000	BOURGALT KEITH 1334 NE 39TH BLVD OKEECHOBEE, FL 349720000	1334 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
121	1-34-36-35-0A00-00005-D000	SCHERRER GARY & GLORIA PO BOX 246 OKEECHOBEE, FL 349730246	1312 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
122	1-34-36-35-0A00-00005-E000	COLLINS WILLIAM T 1300 NE 39TH BLVD OKEECHOBEE, FL 349728628	1300 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
123	1-34-36-35-0A00-00005-F000	BROWN ROBERT W 1274 NE 39TH BLVD OKEECHOBEE, FL 349728628	1274 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
124	1-34-36-35-0A00-00004-0000	EVERGREEN CEMETARY	1116 NE 39TH BLVD, Okeechobee	Cemetary (1 well assumed)
125	1-35-36-35-0010-00000-0450	GOTAY PEDRO & MARINA 327 E 109TH ST APT 3E NEW YORK, NY 10029	1736 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
126	1-35-36-35-0010-00000-0460	GOTAY PEDRO & MARINA 327 E 109TH ST APT 3E NEW YORK, NY 10029	1782 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)



127	1-35-36-35-0010-00000-0440	DEIDA MARILYN LIFE EST MARTINEZ JUAN PABLO LIFE EST 327 EAST 109TH STREET NEW YORK, NY 100293734	1849 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
128	1-35-36-35-0010-00000-0430	THORNTON EDWARD LEE & JOYTEEN 1887 NE 54TH TRAIL OKEECHOBEE, FL 349728602	1887 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
129	1-35-36-35-0010-00000-0420	GOTAY P & M & PASTRANA L 327 E 109TH ST NEW YORK CITY, NY 10029	1911 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
130	1-35-36-35-0010-00000-0410	LLOYD DIANNE E 1991 NE 54 TRAIL OKEECHOBEE, FL 349728602	1991 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
131	1-35-36-35-0010-00000-0400	JAMES WINIFRED J 2131 NE 54TH TRAIL OKEECHOBEE, FL 34972	2131 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
132	1-35-36-35-0010-00000-0390	BIGGLES WILSON D & BETTY L 2199 NE 54TH TRAIL OKEECHOBEE, FL 349728604	2199 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
133	1-35-36-35-0010-00000-0380	MARTINEZ LUIS G 2267 NE 54TH AVENUE OKEECHOBEE, FL 34972	2267 NE 54TH TRL, 34972	Single Family Residence (1 well assumed)
134	1-35-36-35-0010-00000-0370	BARRETT DALE A & KAREN 2335 NE 54TH TRAIL OKEECHOBEE, FL 349728604	2335 NE 54TH TRL, 34972	Single Family Residence (1 well assumed)
135	1-35-36-35-0010-00000-0360	BURNHAM DOUGLAS W & DENISE M 2411 NE 54TH TRAIL OKEECHOBEE, FL 349728606	2411 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
136	1-35-36-35-0010-00000-0350	HILLIARD WALTER DWAYNE & KIMBERLY ANN 2479 NE 54TH TRL OKEECHOBEE, FL 34972	2479 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
137	1-35-36-35-0010-00000-0340	TOWNSEND JERRY & WILLA TRUSTEE 2569 NE 54TH TRAIL OKEECHOBEE, FL 349728606	2569 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
138	1-35-36-35-0010-00000-0330	SCHOPPMAYER MINDY J 2675 NE 54TH TRAIL OKEECHOBEE, FL 34972	2675 NE 54TH TRL, 34972	Single Family Residence (1 well assumed)
139	1-35-36-35-0010-00000-0320	WATTS W R JR & PAMELA E 1201 COUNTRY GARDENS LANE FT PIERCE, FL 349823314	2703 NE 54TH TRL, Okeechobee	Vacant
140	1-35-36-35-0010-00000-0310	MARTIN RALPH R & CATHERINE D %MURRAY DONALD H & PATRICIA L 1320 SE 23RD STREET OKEECHOBEE, FL 349740000	2725 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
141	1-35-36-35-0020-00000-0620	HORTMAN EARL & ETHEL M 2729 NE 54 TRAIL OKEECHOBEE, FL 349728606	2729 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
142	1-35-36-35-0A00-00007-0000	HORTMAN EARL & ETHEL 2729 NE 54TH TRAIL OKEECHOBEE, FL 349720000	2733 NE 54TH TRL, Okeechobee	Vacant
143	1-35-36-35-0040-00000-0860	HORTMAN EARL & ETHEL 2729 NE 54TH TRAIL OKEECHOBEE, FL 34972	2737 NE 54TH TRL, Okeechobee	Vacant
144	1-35-36-35-0040-00000-0870	COOPER ANGELA L (LIFE ESTATE) 2741 NE 54TH TRAIL OKEECHOBEE, FL 34972	2741 NE 54TH TRL, Okeechobee	Single Family Residence (1 well assumed)
145	1-35-36-35-0A00-00009-0000	COOPER ANGELA L (LIFE ESTATE) 2741 NE 54TH TRAIL OKEECHOBDEE, FL 349720000	2807 NE 54TH TRL, Okeechobee	Vacant
146	1-35-36-35-0050-00000-0880	PEREZ ELVIS & YVETTE 821 SW 178TH WAY PEMBROKE PINES, FL 33029	2845 NE 54TH TRL, Okeechobee	Vacant
147	1-35-36-35-0050-00000-0890	JOHNS JILL ANN TRUSTEE 2423 SE 13TH STREET POMPANO BEACH, FL 33062	2853 NE 54TH TRL, Okeechobee	Vacant

148	1-35-36-35-0050-00000-0900	JOHNS JILL ANN TRUSTEE 2423 SE 13TH STREET POMPANO BEACH, FL 33062	2861 NE 54TH TRL, Okeechobee	Vacant
149	1-35-36-35-0050-00000-0910	KESSLER MARC A 17812 TANGERINE BLVD LOXAHATCHEE, FL 33470	0 , Okeechobee	Vacant
150	1-35-36-35-0050-00000-0920	THOMAS RONALD & MCIVER NELLEN 119 CYPRESS TRACE ROYAL PALM BEACH, FL 33411	0 , Okeechobee	Vacant
151	1-35-36-35-0050-00000-0930	MONROE CARL & JANET 121 SE FALLON DRIVE PORT ST LUCIE, FL 349830000	2540 NE 60TH CT, Okeechobee	Vacant
152	1-35-36-35-0050-00000-0940	RAYMAN KIRK & KAREN M 2528 NE 60TH COURT OKEECHOBEE, FL 34972	2528 NE 60TH CT, Okeechobee	Single Family Residence (1 well assumed)
153	1-35-36-35-0050-00000-0950	DUNSON APRIL L PO BOX 456 OKEECHOBEE, FL 349730456	2516 NE 60TH CT, Okeechobee	Vacant
154	1-35-36-35-0050-00000-0960	KENNEDY NAM 104 BUCKNEIL AVENUE WOODBIDGE, NJ 070950000	2504 NE 60TH CT, Okeechobee	Vacant
155	1-35-36-35-0050-00000-0970	ENRICO ROBERT S & HILDA M 11525 HWY 710 OKEECHOBEE, FL 34972	2472 NE 60TH CT, Okeechobee	Vacant
156	1-35-36-35-0050-00000-0980	SEQUEIRA ADOLFO & DEBORAH, ET 7680 NW 21ST STREET FORT LAUDERDALE, FL 333220000	2460 NE 60TH CT, Okeechobee	Vacant
157	1-35-36-35-0050-00000-0990	PARKER RAYMOND & DONNA, ETAL. 15601 STATE ROAD 70 W OKEECHOBEE, FL 34974	2448 NE 60TH CT, Okeechobee	Vacant
158	1-35-36-35-0050-00000-1000	HUDSON COURTNEY M & ANITA G %STEPHEN R & MAYAN Y CASSERLY 3310 NW 29TH AVENUE OKEECHOBEE, FL 34972	2436 NE 60TH CT, Okeechobee	Single Family Residence (1 well assumed)
159	1-35-36-35-0050-00000-1010	BIVER MARVIN L & EVE L 3721 SE 19TH TERRACE OKEECHOBEE, FL 34974	2424 NE 60TH CT, Okeechobee	Single Family Residence (1 well assumed)
160	1-35-36-35-0050-00000-1020	RAGAMAT PEREGRINO E & NORA P 7052 SW 13TH STREET OKEECHOBEE, FL 34974	2412 NE 60TH CT, Okeechobee	Vacant
161	1-35-36-35-0050-00000-1030	HILL WILLIAM I & JERRY LYNN 1632 NE 103RD AVENUE OKEECHOBEE, FL 34974	2400 NE 60TH CT, Okeechobee	Vacant
162	1-35-36-35-0050-00000-1040	RAMOS EZEQUIEL 13910 SW 71ST LANE MIAMI, FL 33183	2415 NE 60TH CT, Okeechobee	Vacant
163	1-35-36-35-0050-00000-1050	SALVATORE ALBERT 1130 NE JENSEN BEACH BLVD JENSEN BEACH, FL 34957	2427 NE 60TH CT, Okeechobee	Vacant
164	1-35-36-35-0050-00000-1060	CHAVEZ ENRIQUE & ALINA 365 BENT OAK WEST PALM BEACH, FL 33421	2439 NE 60TH CT, Okeechobee	Vacant
165	1-35-36-35-0050-00000-1070	MER DAVID 5200 N OCEAN DRIVE #1003 SINGER ISLAND, FL 33404	2453 NE 60TH CT, Okeechobee	Vacant
166	1-35-36-35-0050-00000-1080	AVANT PHILIP E 1514 SW 18TH TERRACE OKEECHOBEE, FL 34974	2511 NE 60TH CT, Okeechobee	Single Family Residence (1 well assumed)
167	1-35-36-35-0050-00000-1090	LAWLA DELORA & LAWLA SELVIN A 15785 MEADOW WOOD DR WELLINGTON, FL 33414	2350 NE 59TH CT, Okeechobee	Vacant
168	1-35-36-35-0050-00000-1100	ROWE GEORGE P & RAMONA 1340 MALLARD COURT FORT PIERCE, FL 34982	2324 NE 59TH CT, Okeechobee	Vacant
169	1-35-36-35-0050-00000-1110	REYES MARGARITA 1574 SW 19TH TERRACE OKEECHOBEE, FL 34974	2272 NE 59TH CT, Okeechobee	Vacant

170	1-35-36-35-0050-00000-1120	REYES MARGARITA N 1574 SW 19TH TERRACE OKEECHOBEE, FL 34974	2234 NE 59TH CT, Okeechobee	Vacant
171	1-35-36-35-0050-00000-1130	MONROE PHYLLIS B TRUSTEE & MONROE JACK L TRUSTEE PO BOX 881629 PORT ST LUCIE, FL 34988	2120 NE 54TH WAY, Okeechobee	Vacant
172	1-35-36-35-0050-00000-1140	WILSON JAMES & NANCY 4441 SW NEW COURT PORT ST LUCIE, FL 34975	2136 NE 54TH WAY, Okeechobee	Vacant
173	1-35-36-35-0050-00000-L000	R-BAR ESTATES UNIT NO 5 ASSOCI 12575 HWY 70 E OKEECHOBEE, FL 34972	0 , Okeechobee	Vacant
174	1-35-36-35-0050-00000-1150	BOUCHLAS JEAN 135 PONCE DE LEON WEST PALM BEACH, FL 33411	2140 NE 54TH WAY, Okeechobee	Vacant
175	1-35-36-35-0050-00000-1160	MULHOLLAND ROBERT 400 SW 85TH AVENUE OKEECHOBEE, FL 34974	2133 NE 54TH WAY, Okeechobee	Vacant
176	1-35-36-35-0050-00000-1170	KELLY SHANNON 400 SW 85TH AVENUE OKEECHOBEE, FL 34974	2125 NE 54TH WAY, Okeechobee	Vacant
177	1-35-36-35-0050-00000-1180	CALIXTO LUIS E & DIANA 12948 SW 143RD TERRACE MIAMI, FL 331868942	2109 NE 54TH WAY, Okeechobee	Vacant
178	1-35-36-35-0050-00000-1190	PIERSON CARLOS A & VENDRIC- PIERSON KATHRYN 2041 NE 54TH WAY OKEECHOBEE, FL 34972	2041 NE 54TH WAY, Okeechobee	Single Family Residence (1 well assumed)
179	1-35-36-35-0050-00000-1200	VAN EMAN VICTOR M & OLIVIA R 19D EMHERST COURT ROYAL PALM BEACH, FL 33411	2017 NE 54TH WAY, Okeechobee	Vacant
180	1-35-36-35-0A00-00005-0000	TRINITY FREEWILL BAPTIST CHURC % LEWIS SAMUEL 6480 NORTHEAST 10TH LANE OKEECHOBEE, FL 349748027	1840 NE 39TH BLVD, Okeechobee	Church (1 well assumed)
181	1-35-36-35-0050-00000-1210	FRAGA IVONNE 2850 SE EAST BLACKWELL DRIVE PORT ST LUCIE, FL 34952	0 , Okeechobee	Vacant
182	1-35-36-35-0050-00000-1220	JOHNS JILL ANN TRUSTEE 2423 SE 13TH STREET POMPANO BEACH, FL 33062	2281 NE 59TH CT, Okeechobee	Vacant
183	1-35-36-35-0050-00000-1230	JOHNS JILL ANN TRUSTEE 2423 SE 13TH STREET POMPANO BEACH, FL 33062	2317 NE 59TH CT, Okeechobee	Vacant
184	1-35-36-35-0050-00000-1240	S & B HOME SOLUTIONS INC 9525 SHEPPARD PLACE WELLINGTON, FL 33414	2345 NE 59TH CT, Okeechobee	Vacant
185	1-35-36-35-0050-00000-1250	RAGONESE JEFFREY L & GOSS ROGE 92 SANTA MONICA AVENUE ROYAL PALM BEACH, FL 33411	0 , Okeechobee	Vacant
186	1-35-36-35-0A00-00006-0000	LARSON KAREN W 2110 NE 39TH BLVD OKEECHOBEE, FL 34972	2110 NE 39TH BLVD, Okeechobee	Single Family Residence (1 well assumed)
187	1-35-36-35-0050-00000-1260	DIGIOVANNI CHARLES JR & JANET 19417 BLACK OLIVE LANE BOCA RATON, FL 33498	2124 NE 39TH BLVD, Okeechobee	Vacant
188	1-35-36-35-0050-00000-1270	SANDEFUR JULIAN R & JOANN 14808 61ST COURT NORTH LOXAHATCHEE, FL 33470	2132 NE 39TH BLVD, Okeechobee	Vacant
189	1-35-36-35-0050-00000-1280	VANCAMP EDWARD L & APRIL D 1902 SW 37TH AVENUE OKEECHOBEE, FL 34974	2140 NE 39TH BLVD, Okeechobee	Vacant
190	1-35-36-35-0050-00000-1290	SCRUGGS MAURICE L & RUBY 122 1ST WAY WEST PALM BEACH, FL 33407	2208 NE 39TH BLVD, Okeechobee	Vacant

191	1-35-36-35-0050-00000-1300	RIOS MICHELLE 896 NE 104TH COURT OKEECHOBEE, FL 34972	2561 NE 60TH CT, Okeechobee	Vacant
192	1-35-36-35-0050-00000-1310	CLAY CHRISTOPHER A & ZAHN DANA 6611 NE 120TH STREET OKEECHOBEE, FL 34972	2579 NE 60TH CT, Okeechobee	Vacant
193	1-35-36-35-0050-00000-1320	MONDUN WILLIAM H JR 799 SE 25TH STREET OKEECHOBEE, FL 34974	0 , Okeechobee	Vacant
194	1-35-36-35-0050-00000-1330	FRAGA IVONNE & VEGA JUAN C 2850 SE EAST BLACKWELL DRIVE PORT ST LUCIE, FL 34952	2893 NE 54TH TRL, Okeechobee	Vacant
195	1-35-36-35-0050-00000-W100	R-BAR ESTATES UNIT NO 5 ASSOCI 12575 HWY 70 E OKEECHOBEE, FL 34972	0 , Okeechobee	Vacant
196	1-02-37-35-0A00-00001-0000	HAMRICK & SONS INC 7303 18TH AVENUE NW BRADENTON, FL 342099510	0 , Okeechobee	Imp. Pasture No Bldgs
197	1-03-37-35-0A00-00001-0000	EVERGREEN CEMETARY	0 , Okeechobee	Cemetary (part of Map ID 124 above)
198	1-03-37-35-0A00-00002-0000	HAMRICK & SONS INC 7303 18TH AVENUE NW BRADENTON, FL 342099510	0 , Okeechobee	Imp. Pasture No Bldgs
199	1-03-37-35-0A00-00002-A000	DANIELS RICHARD W & DANIELS LE 314 SW 2ND STREET OKEECHOBEE, FL 349740000	851 NE 39TH BLVD, Okeechobee	Vacant

Notes:

1. Property information was obtained from the Okeechobee County Property Appraiser web site.
2. John Burton with Okeechobee County Health Department (863-462-5812) indicated that there is no City water available and all water sources in this area would have to come from wells. The wells in the area are typically 140 feet to 160 feet deep and not likely to be over 200 feet. This area provides very little yield over 200 feet deep.
3. Grayed out properties listed in the table are located just outside of the Proposed Area of Review.





Table 2 (Continued)

Wastestream	Total Dissolved Solids	Weekly*
	Chloride	Weekly*
	Specific Conductivity	Weekly*
	pH	Weekly*
	Temperature	Weekly*
	Ammonia (mg/L)	Monthly
	Total Kjeldahl Nitrogen (mg/L)	Monthly
	Nitrate + Nitrite as N (mg/L)	Monthly
	Total Suspended Solids (TSS)** (mg/L)	Daily
	Maximum Total Suspended Solids (TSS)**	Monthly
	Average Total Suspended Solids (TSS)** (mg/L)	Monthly
	Fecal Coliform (number/100 mL)	Daily
	Fecal Coliform (number/100mL), percent below detection limit	Monthly
	Fecal Coliform (number/100mL), maximum	Monthly
DWS - Drinking Water Standards		
* Frequency decreased to monthly following operational testing and Department approval.		
** All TSS samples shall be grab samples. The samples are to be taken after filtration and before disinfection.		

**LETTER FROM COUNSEL FOR THE  
OKEECHOBEE ULITYY AUTHORITY**

# CONELY & CONELY, P.A.

OFFICE LOCATION - 401 NORTHWEST SIXTH STREET, OKBEECHOBEE, FLORIDA 34972

MAILING ADDRESS:

POST OFFICE DRAWER 1367  
OKBEECHOBEE, FLORIDA 34973-1367

T.W. CONELY, JR. 1892-1969

TOM W. CONELY, III

TELEPHONE - (863) 763-3825

FACSIMILE - (863) 763-6856

February 25, 2009  
Via Federal Express

Florida Department of Environmental Protection  
2600 Blairstone Road  
Tallahassee, FL 32399-2400

Attention: Richard Deuerling, MS 3530  
Underground Injection Control Program

Re: The Okeechobee Utility Authority Deep Injection Well  
Facility I.D. Number 40824-044-UC

Dear Mr. Deuerling:

The undersigned is counsel for the Okeechobee Utility Authority.

The Okeechobee Utility Authority is a regional utility authority created as an independent public agency by Interlocal Agreement dated December 10, 1994 between Okeechobee County and the City of Okeechobee, Florida, under the provisions of Section 163 and Section 373.1962 of the Florida Statutes. As a public agency under the Interlocal Act the Okeechobee Utility Authority is entitled to enter into interlocal agreements with other public agencies to "jointly exercise any power, privilege or authority which such agencies share in common and which each might exercise separately, permitting the Okeechobee Utility Authority to make the most efficient use of its powers by enabling it to cooperate on a basis of mutual benefit and thereby provide services and facilities in a manner and pursuant to forms of governmental organizations that would best serve geographic, economic, population and other factors influencing the needs and development of local communities . . ." Additionally, pursuant to Section 163.01(9), Florida Statutes, an interlocal entity such as the Okeechobee Utility Authority is entitled to all of the privileges, immunities and exemptions to which any other member of local government would be entitled.

In light of the above, we are of the opinion that the Okeechobee Utility Authority should be allowed to demonstrate financial responsibility in the same fashion as other local governments as defined in Section 218.31, Florida Statutes. Likewise, we acknowledge that the Okeechobee Utility Authority would be subject to the provisions of Section 218.503(3) to the same extent as any other member of local government.

Florida Department of Environmental Protection

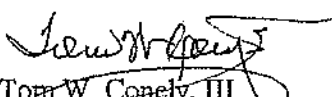
February 25, 2009

Page 2

Based upon representations from management of the Okeechobee Utility Authority and consistent with the findings of the Authority's external auditors, Nowlen Holt & Miner, PA, as set forth in their management letter dated March 6, 2008, we are of the opinion that the Okeechobee Utility Authority is not in a state of financial emergency as defined under Section 218.503, Florida Statutes.

The opinions referenced herein are provided to the Florida Department of Environmental Protection in connection with the Okeechobee Utility Authority's application for the referenced Class I Injection Wells. The opinions expressed herein are provided solely for the FDEP's consideration of the referenced application and may not be used for any other purpose.

Respectfully submitted,

  
Tom W. Conely, III

\cd

**SIGNED AND SEALED PAGE 3 OF 14 OF APPLICATION**

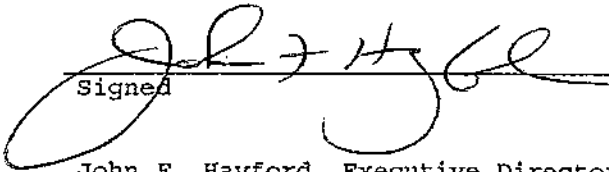


DEP Form No:	#	52-528.900(1)
Form Title:	Application to Construct/ Operate/Abandon Class I, III, or V Injection Well Systems	
Effective Date:		
DEP Application No.:	(Filled in by DEP)	

PART III. Statement by Applicant and Engineer

A. Applicant

I, the owner/authorized representative\* of Okeechobee Utility Authority, certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I understand that this certification also applies to all subsequent reports submitted pursuant to this permit. Where construction is involved, I agree to retain the design engineer, or other professional engineer registered in Florida, to provide inspection of construction in accordance with Rule 62-528.455(1)(c), F.A.C.

  
 \_\_\_\_\_  
 Signed

11/6/08  
 \_\_\_\_\_  
 Date

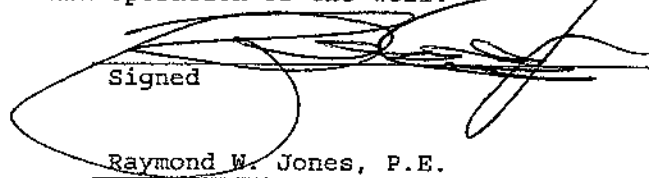
John F. Hayford, Executive Director  
 \_\_\_\_\_  
 Name and Title (Please Type)

(863) 763-9460  
 \_\_\_\_\_  
 Telephone Number

\*Attach a Letter of Authorization.

B. Professional Engineer Registered in Florida

This is to certify that the engineering features of this injection well have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the well, when properly maintained and operated, will discharge the effluent in compliance with all applicable statutes of the State of Florida and the rules of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for proper maintenance and operation of the well.

  
 \_\_\_\_\_  
 Signed

Raymond W. Jones, P.E.  
 \_\_\_\_\_  
 Name (Please Type)

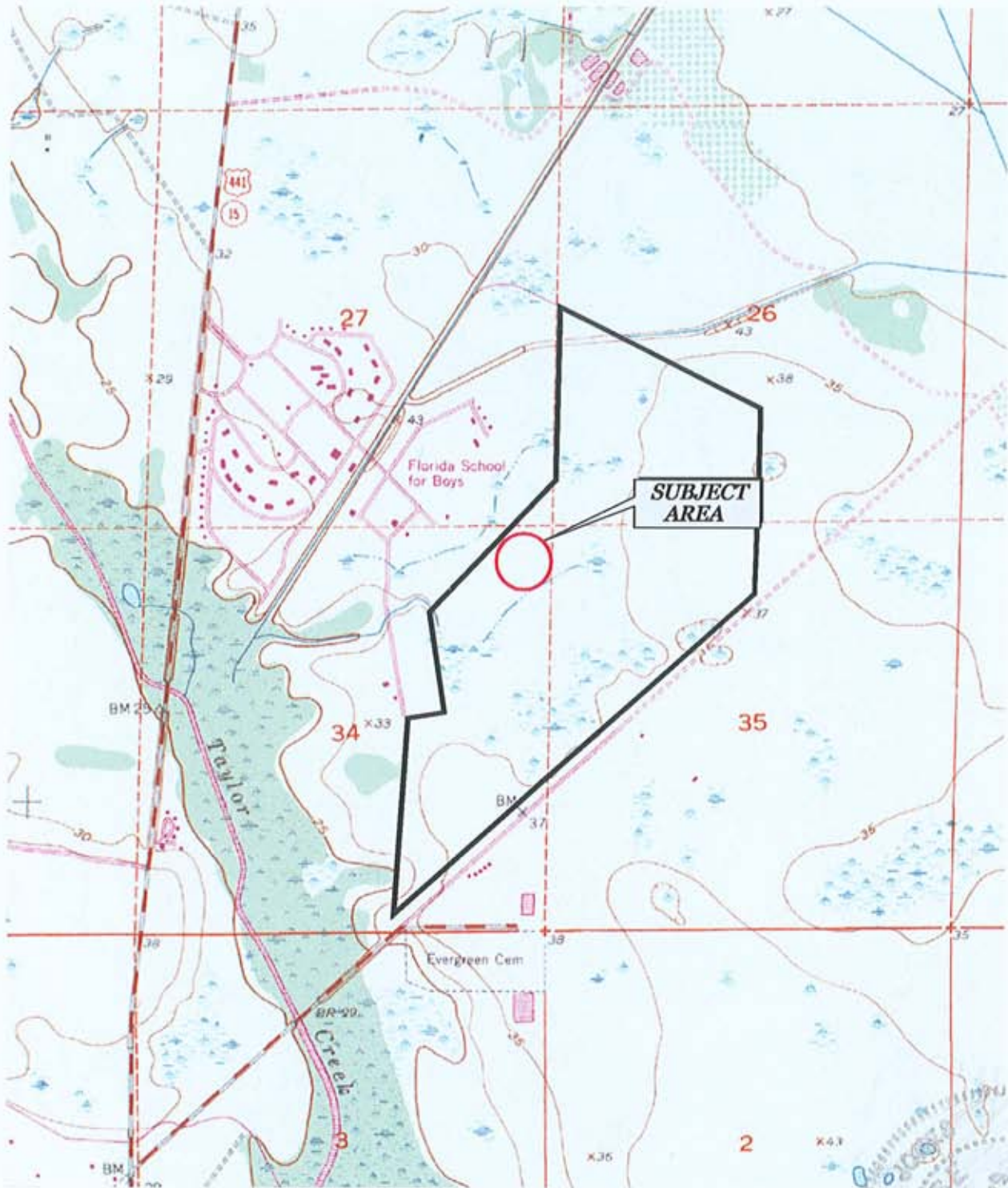
(Please Affix Seal)

Andreyev Engineering, Inc.  
 \_\_\_\_\_  
 Company Name (Please Type)

\_\_\_\_\_  
 Mailing Address (Please Type)

Florida Registration No. 58079 Date 11-11-08 Phone No. 407-330-7763

## FIGURES



**REFERENCE:** U.S.G.S. "TAYLOR CREEK SE, FLORIDA" QUADRANGLE MAP  
**SECTION:** 27 AND 34  
**TOWNSHIP:** 36 SOUTH  
**RANGE:** 35 EAST  
**ISSUED:** 1953  
**PHOTOREVISED:** 1972

**LEGEND**

 APPROXIMATE PROJECT BOUNDARY



**Andreyev  
Engineering,  
Inc.**

**OKEECHOBEE WWTF EXPANSION  
UIC INJECTION WELL PROJECT**

OKEECHOBEE, FLORIDA

SITE VICINITY MAP

FIGURE 1

APPROXIMATE SCALE:

1" = 2000'

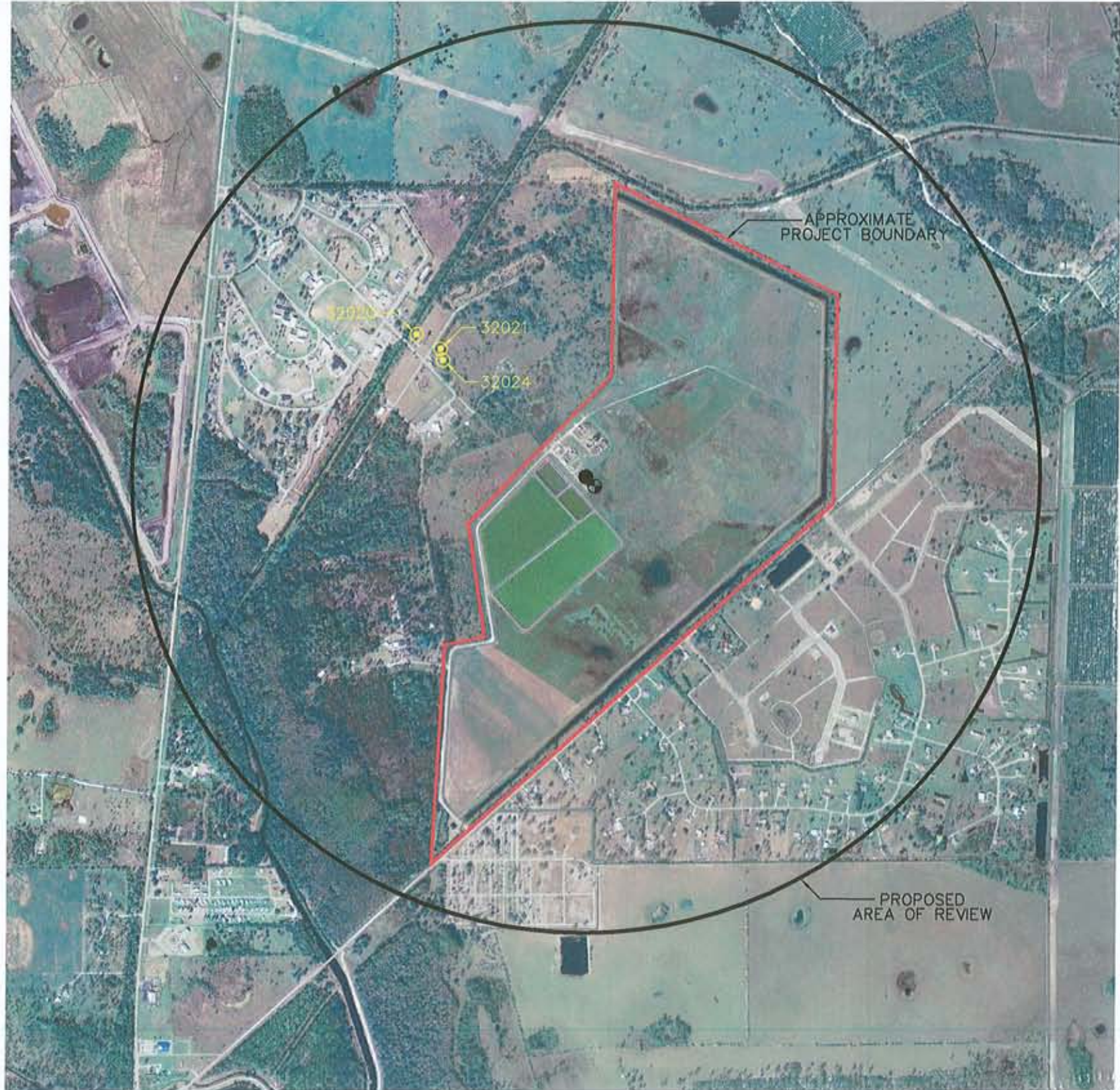
DATE: 02/25/09

ENGINEER: SA

PN: GPGW-05-0430

DRAWN BY: MS





**LEGEND**

- EXPLORATORY WELL/DEEP INJECTION WELL LOCATION
- ⊕ DUAL ZONE MONITORING WELL LOCATION
- ⊙ EXISTING WELL AS IDENTIFIED ON SFWMD WEBSITE



**Andreyev Engineering, Inc.**  
SANFORD OFFICE

4055 St. Johns Parkway  
Sanford, Florida 32771  
407-330-7763  
Fax: 407-330-7765

Certificate of Authorization: 7634

OKEECHOBEE WWTF EXPANSION  
UIC INJECTION WELL PROJECT

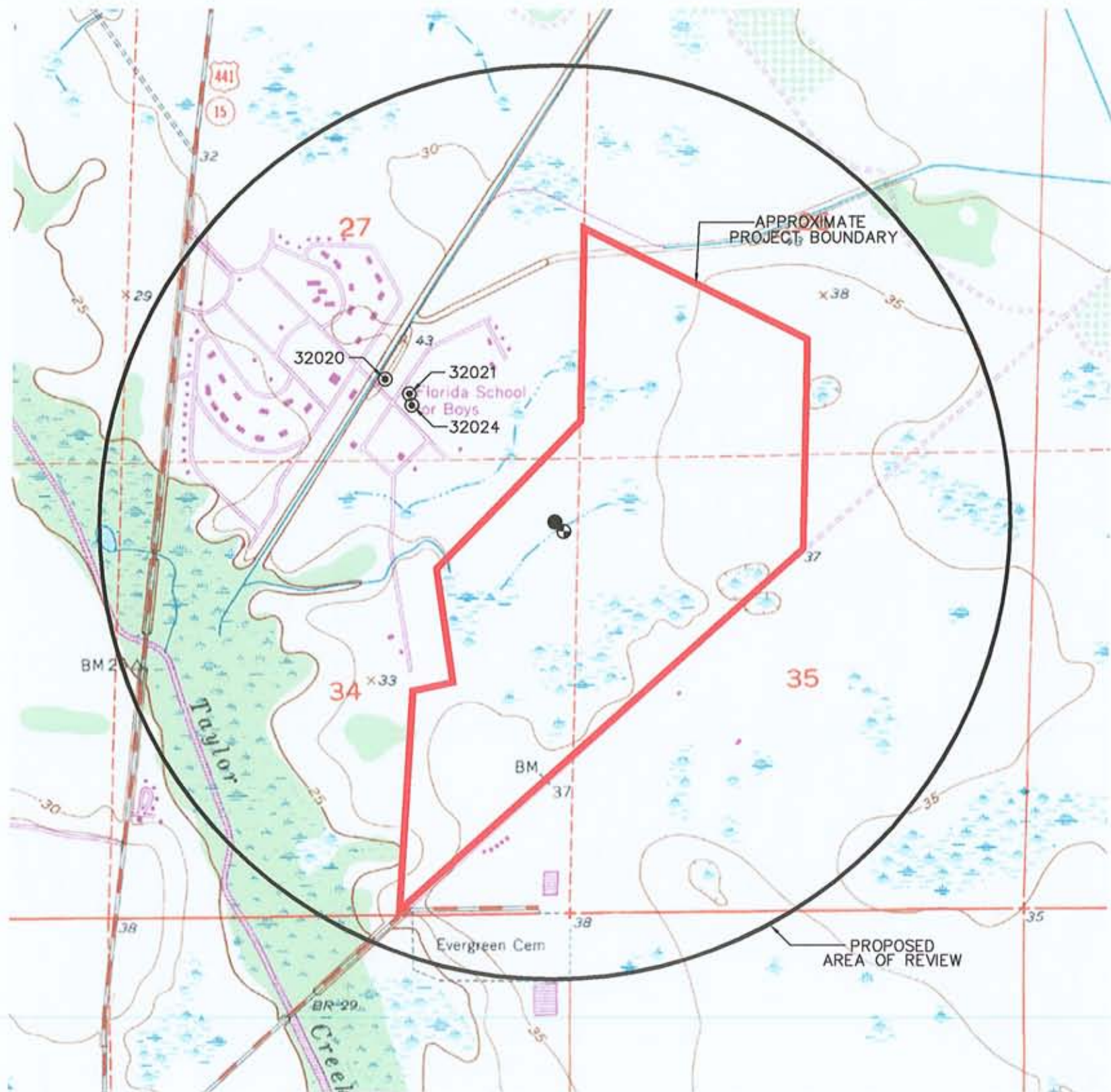
*Raymond W. Jones*  
Raymond W. Jones, P.E.  
FL Registration No.: 58079

APPROXIMATE SCALE: 1"=1500'  
DATE: 02/25/09 ENGINEER: SA  
PN: GPGW-05-430 DRAWN BY: MS

A.O.R. AERIAL PHOTO

FIGURE 2





**LEGEND**


- EXPLORATORY WELL/DEEP INJECTION WELL LOCATION
- ⊕ DUAL ZONE MONITORING WELL LOCATION
- ⊙ EXISTING WELL AS IDENTIFIED ON SFWMD WEBSITE

 **Andreyev Engineering, Inc.**  
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4055 St. Johns Parkway  
Sanford, Florida 32771  
407-330-7763  
Fax: 407-330-7765

OKEECHOBEE WWTF EXPANSION  
UIC INJECTION WELL PROJECT

Certificate of Authorization: 7634

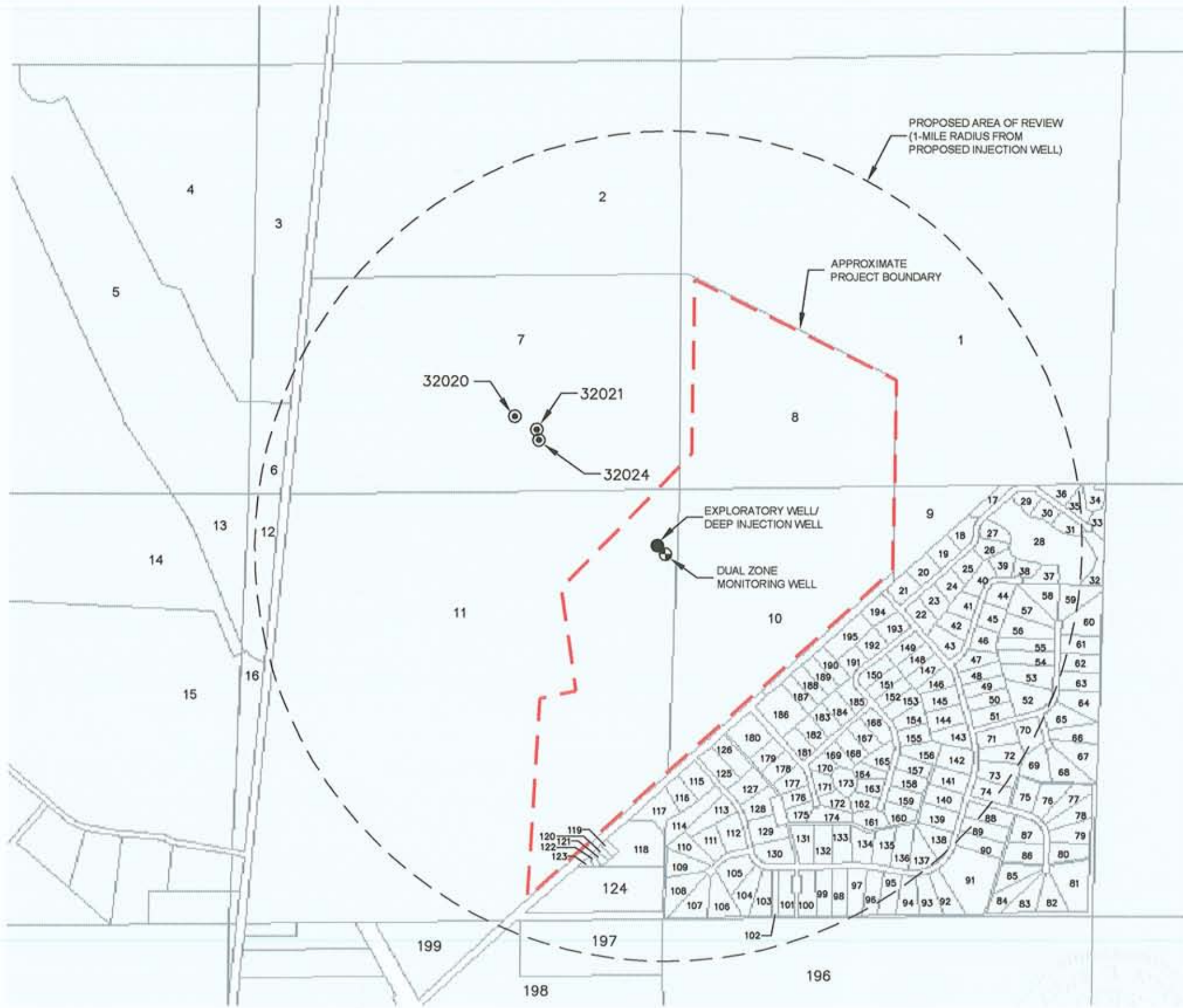
  
Raymond W. Jones, P.E.  
FL Registration No.: 58079

APPROXIMATE SCALE:	DATE: 02/25/09	ENGINEER: SA
1"=1500'	PN:GPGW-05-430	DRAWN BY:MS

A.O.R QUAD MAP

FIGURE 3





NOTE:  
EACH PARCEL OR LOT IS IDENTIFIED BY A NUMBER WHICH IS REFERENCED IN THE ATTACHED TABLE 1.

**LEGEND**

- EXPLORATORY WELL/DEEP INJECTION WELL LOCATION
- ⊕ DUAL ZONE MONITORING WELL LOCATION
- ⊙ EXISTING WELL AS IDENTIFIED ON SFWMD WEBSITE

REFERENCE:  
OKEECHOBEE COUNTY PROPERTY APPRAISER MAP

STATION ID	APPLICANT	DISTRICT	STATION NAME	PERMIT NO.	DIAMETER	TOTAL DEPTH	CASING DEPTH
32020	ECKERD YOUTH DEVELOPMENT CENTER	SOUTH FLORIDA WATER MANAGEMENT DISTRICT	15-8	47-00059-W	12	160	135
32021	ECKERD YOUTH DEVELOPMENT CENTER	SOUTH FLORIDA WATER MANAGEMENT DISTRICT	15-5	47-00059-W	12	160	135
32024	ECKERD YOUTH DEVELOPMENT CENTER	SOUTH FLORIDA WATER MANAGEMENT DISTRICT	15-6	47-00059-W	12	750	600

*Raymond W. Jones, P.E.*  
Raymond W. Jones, P.E.  
FL Registration No. 58079



**Andreyev Engineering, Inc.**  
SANFORD OFFICE

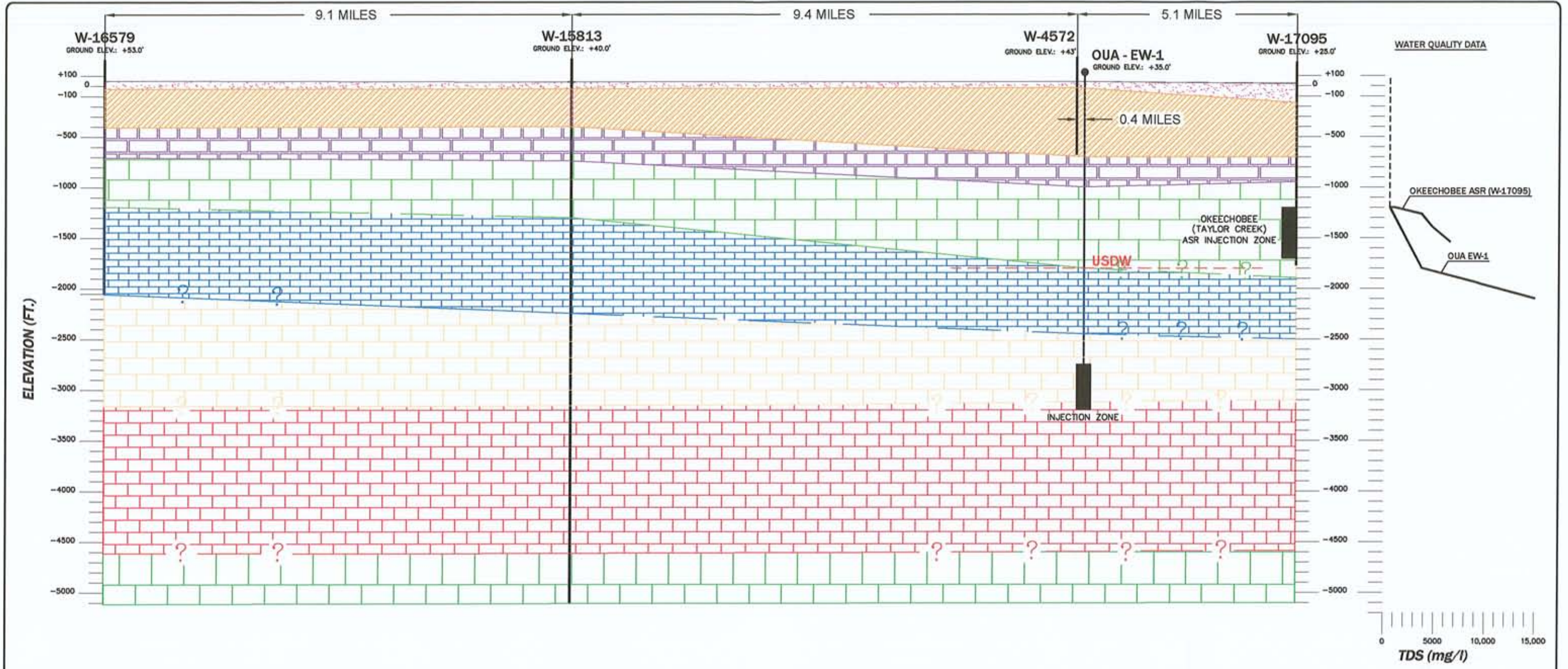
4055 St. Johns Parkway  
Sanford, Florida 32771  
407-330-7763  
Fax: 407-330-7765

Certificate of Authorization: 7634

APPROXIMATE SCALE: 1"=1500'  
DATE: 02/25/09 ENGINEER: SA  
PN:GPGW-05-430 DRAWN BY: MS

OKEECHOBEE WWTF EXPANSION  
UIC INJECTION WELL PROJECT  
OKEECHOBEE, FLORIDA  
A.O.R. WELL LOCATIONS  
PROPERTY APPRAISER'S MAP  
FIGURE 4





FORMATION NAME	HAWTHORN/TAMPA	OCALA	AVON PARK LIMESTONE	LAKE CITY LIMESTONE	OLDSMAR LIMESTONE	CEDAR KEY LIMESTONE	LAWSON LIMESTONE
ANASTASIA/TAMIAMI							
GEOLOGIC AGE	MIOCENE	UPPER EOCENE	MIDDLE EOCENE	MIDDLE EOCENE	LOWER EOCENE	PALEOCENE	PALEOCENE
HYDROGEOLOGIC ZONE	CONFINING UNIT WITH MINOR WATER YIELD ZONES	UPPER FLORIDAN AQUIFER SYSTEM	UPPER FLORIDAN AQUIFER SYSTEM/MIDDLE CONFINING UNIT	LOWER FLORIDAN AQUIFER SYSTEM	LOWER FLORIDAN AQUIFER SYSTEM/SUB FLORIDAN CONFINING UNIT	SUB FLORIDAN CONFINING UNIT/AQUIFER	SUB FLORIDAN CONFINING UNIT/AQUIFER
LITHOLOGIC DESCRIPTION	SANDY PHOSPHATIC CLAY WITH INTERBEDDED SHELL & CALCAREOUS CLAYS WITH INTERBEDDED LIMESTONE SHELL AND MARL	LIGHT BROWN TO BROWN, FINELY FRAGMENTAL AND FOSSILIFEROUS LIMESTONE, ABUNDANT LEPIDOCYCLINA PRESENT	PALE ORANGE, POORLY CONSOLIDATED, FOSSILIFEROUS LIMESTONE	DARK YELLOW BROWN, HARD, POROUS FINE CRYSTALLINE DOLOMITE	DARK YELLOW BROWN, HARD, POROUS FINE CRYSTALLINE DOLOMITE	DOLOMITE AND LIMESTONE DENSE, IMPERMEABLE WITH POSSIBLE OCCURRENCE OF HIGHLY PERMEABLE, FRACTURED CAVERNOUS ZONES	DOLOMITE AND LIMESTONE DENSE, IMPERMEABLE WITH POSSIBLE OCCURRENCE OF HIGHLY PERMEABLE, FRACTURED CAVERNOUS ZONES

Raymond W. Jones, P.E.  
FL Registration No.: 58079

**Andreyev Engineering, Inc.**  
SANFORD OFFICE

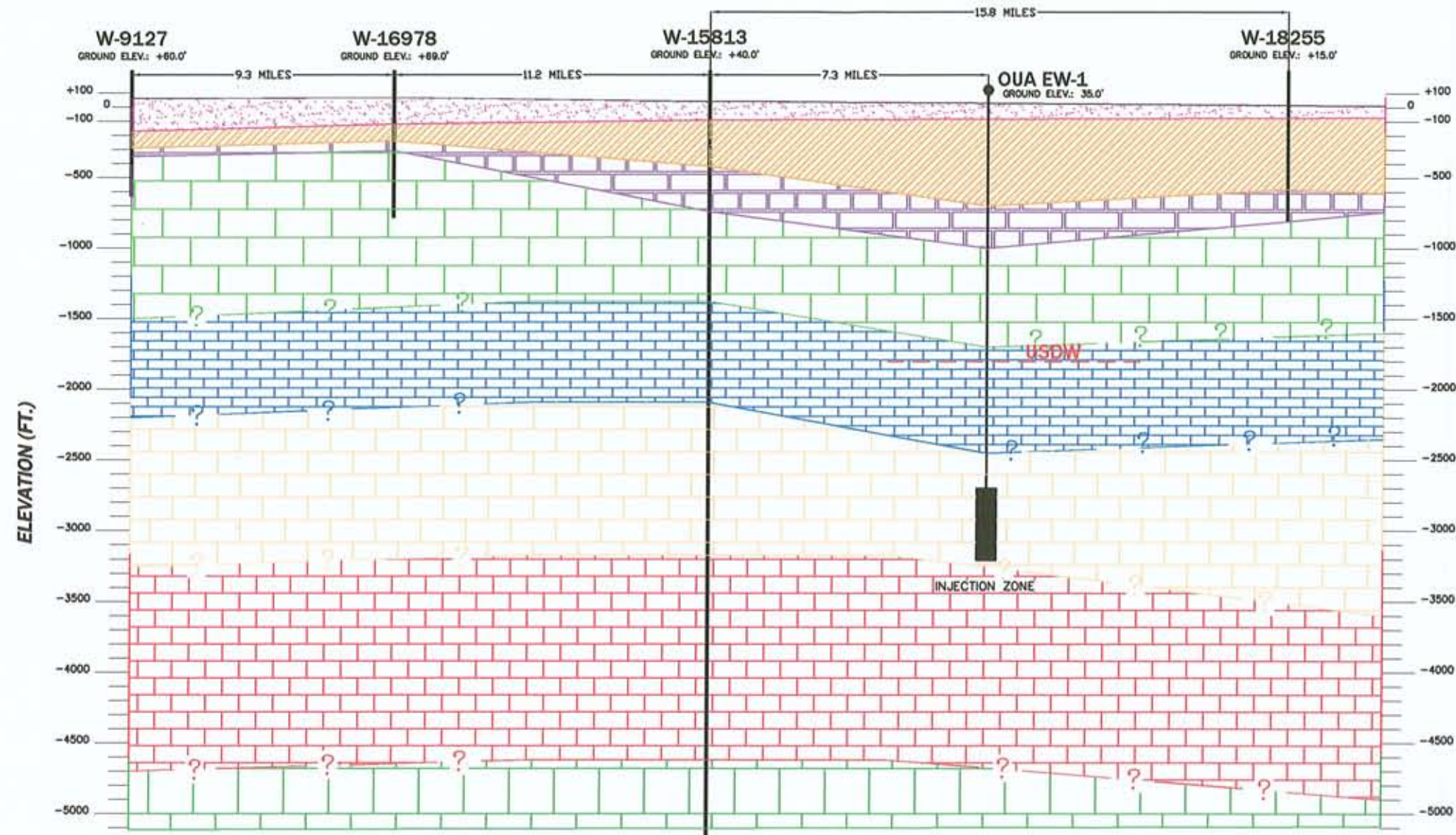
4055 St. Johns Parkway  
Sanford, Florida 32771  
407-330-7763  
Fax: 407-330-7765  
Certificate of Authorization: 7634

APPROXIMATE SCALE: N.T.S.  
DATE: 02/25/09  
ENGINEER: R.J.  
PN: GPGW-05-0430  
DRAWN BY: MS

**OKEECHOBEE WWTF EXPANSION  
IIC INJECTION WELL PROJECT**

LOCALIZED EAST-WEST  
A-A' GEOLOGIC CROSS-SECTION  
FIGURE 6





FORMATION NAME	HAWTHORN/TAMPA	OCALA	AVON PARK LIMESTONE	LAKE CITY LIMESTONE	OLDSMAR LIMESTONE	CEDAR KEY LIMESTONE	LAWSON LIMESTONE
ANASTASIA/TAMIAMI							
PLEISTOCENE/PLIOCENE	MIOCENE	UPPER EOCENE	MIDDLE EOCENE	MIDDLE EOCENE	LOWER EOCENE	PALEOCENE	PALEOCENE
SURFICIAL AQUIFER	CONFINING UNIT WITH MINOR WATER YIELD ZONES	UPPER FLORIDAN AQUIFER SYSTEM	UPPER FLORIDAN AQUIFER SYSTEM/MIDDLE CONFINING UNIT	LOWER FLORIDAN AQUIFER SYSTEM	LOWER FLORIDAN AQUIFER SYSTEM/SUB FLORIDAN CONFINING UNIT	SUB FLORIDAN CONFINING UNIT/AQUIFER	SUB FLORIDAN CONFINING UNIT/AQUIFER
UNDIFFERENTIATED DEPOSITS OF SANDS, CLAY AND SHELL	SANDY PHOSPHATIC CLAY WITH INTERBEDDED SHELL & CALCAREOUS CLAYS WITH INTERBEDDED LIMESTONE SHELL AND MARL	LIGHT BROWN TO BROWN, FINELY FRAGMENTAL AND FOSSILIFEROUS LIMESTONE, ABUNDANT LEPIDOCYCLINA PRESENT	PALE ORANGE, POORLY CONSOLIDATED, FOSSILIFEROUS LIMESTONE	DARK YELLOW BROWN, HARD, POROUS FINE CRYSTALLINE DOLOMITE	DARK YELLOW BROWN, HARD, POROUS FINE CRYSTALLINE DOLOMITE	DOLOMITE AND LIMESTONE DENSE, IMPERMEABLE WITH POSSIBLE OCCURRENCE OF HIGHLY PERMEABLE, FRACTURED CAVERNOUS ZONES	DOLOMITE AND LIMESTONE DENSE, IMPERMEABLE WITH POSSIBLE OCCURRENCE OF HIGHLY PERMEABLE, FRACTURED CAVERNOUS ZONES

Raymond W. Jones, P.E.  
 2-26-09  
 FL Registration No. 58079

**Andreyev Engineering, Inc.**  
 SANFORD OFFICE

4055 St. Johns Parkway  
 Sanford, Florida 32771  
 407-330-7763  
 Fax: 407-330-7765  
 Certificate of Authorization: 7634

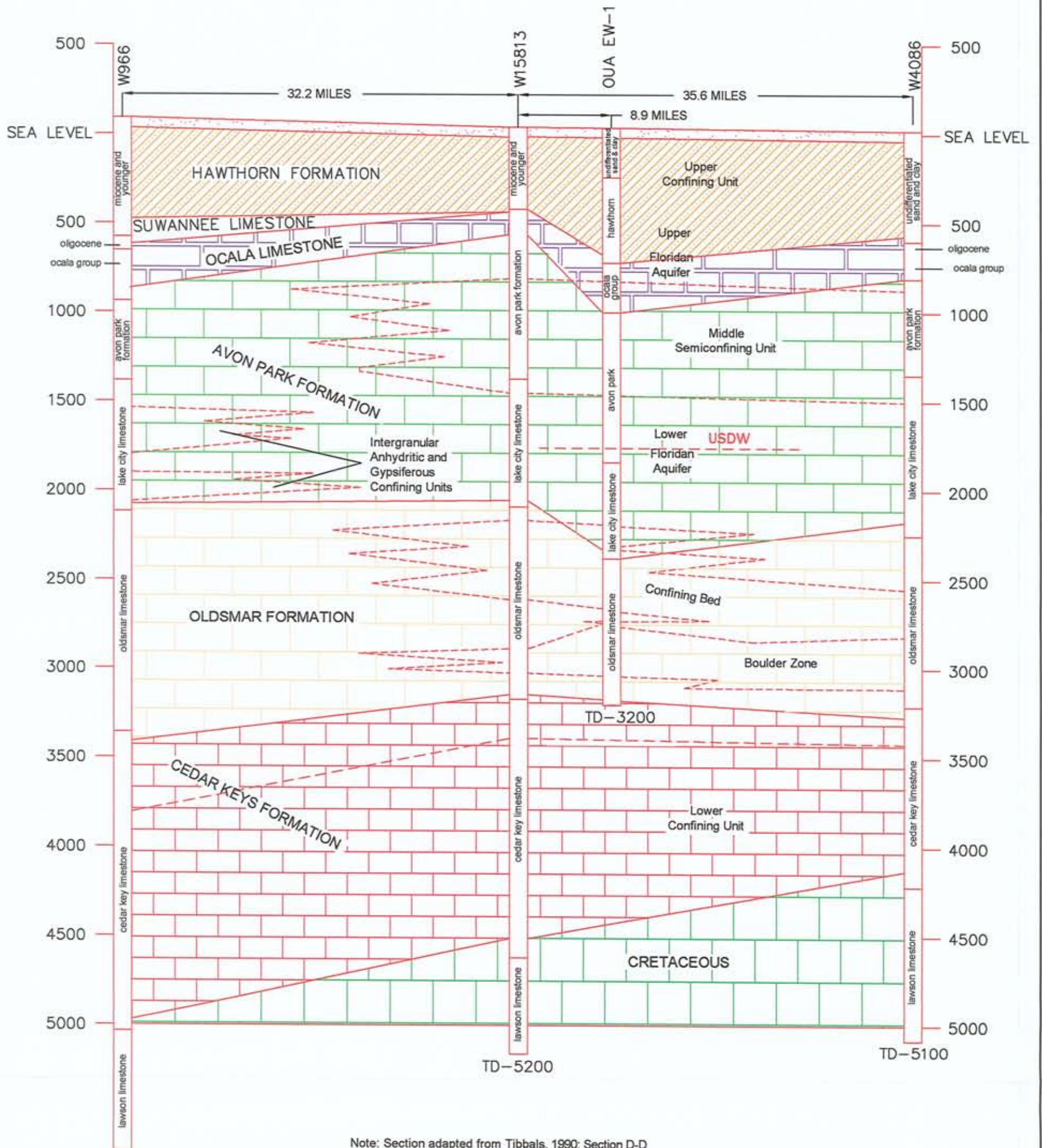
APPROXIMATE SCALE: N.T.S.    DATE: 02/25/09    ENGINEER: RJ  
 PN:GPCW-05-0430    DRAWN BY: MS

OKEECHOBEE WWTF EXPANSION  
 UIC INJECTION WELL PROJECT

LOCALIZED NORTH-SOUTH  
 B-B' GEOLOGIC CROSS-SECTION

FIGURE 7





Note: Section adapted from Tibbals, 1990: Section D-D  
 TD Denotes Termination Depth of Lithologic Description.



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APPROXIMATE SCALE:	DATE: 02/25/09	ENGINEER: RJ
N.T.S.	PN: GPGW-05-0430	DRAWN BY: MS

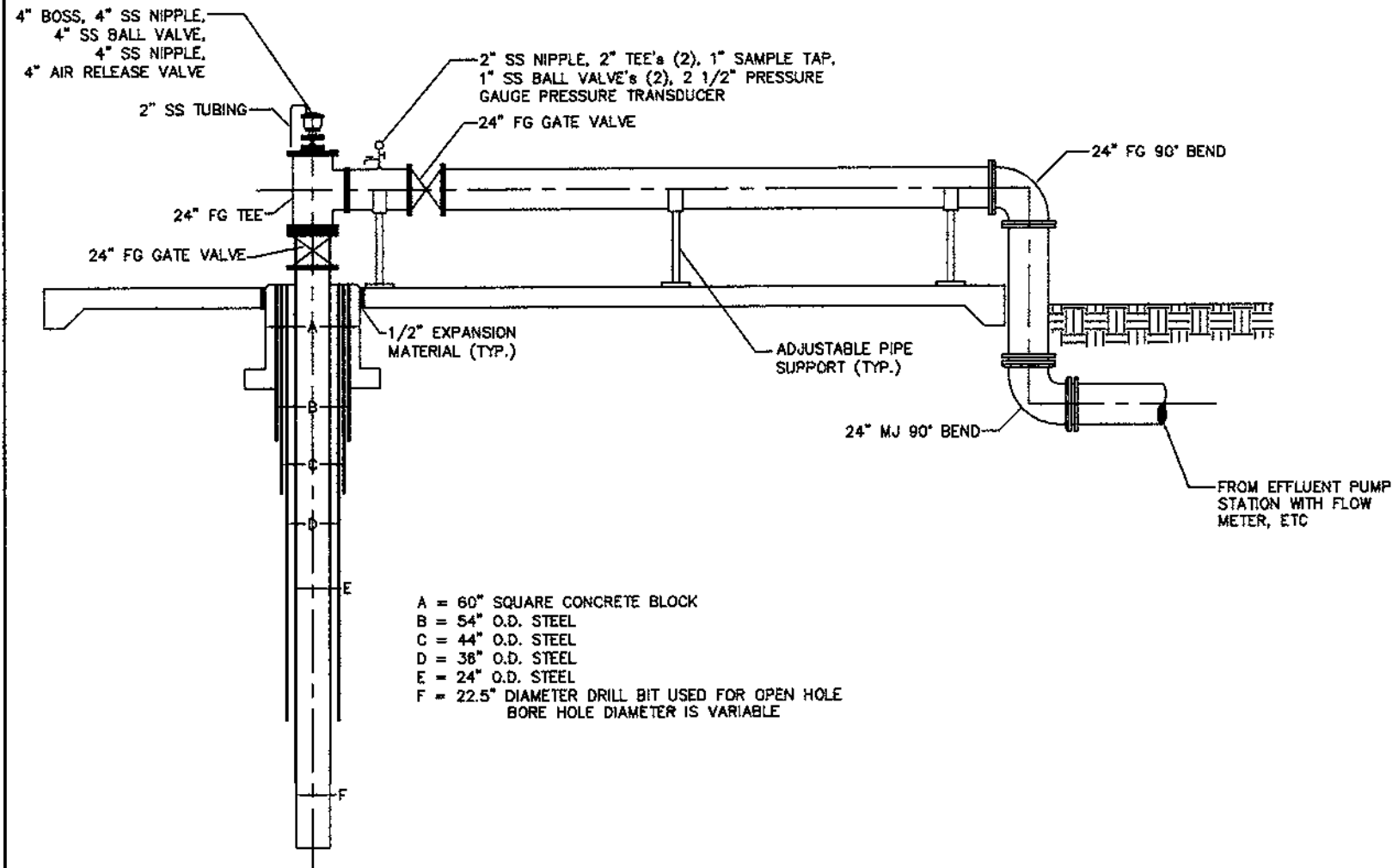
OKEECHOBEE WWTF EXPANSION  
 UIC INJECTION WELL PROJECT

OKEECHOBEE, FLORIDA

REGIONAL EASTWEST  
 C-C' GEOLOGIC CROSS-SECTION

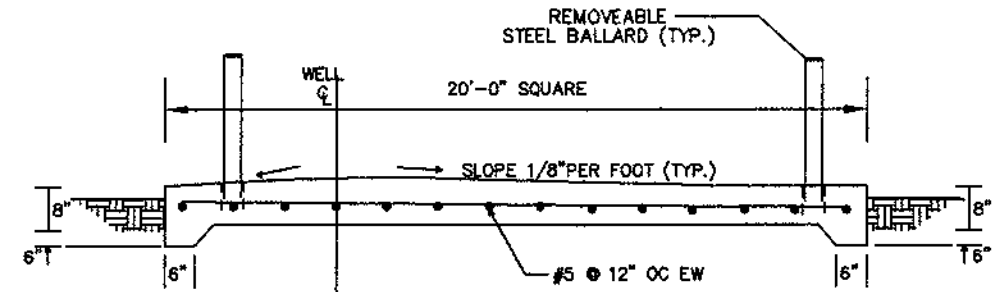
FIGURE 8

*Raymond W. Jones*  
 Raymond W. Jones, P.E.  
 FL Registration No.: 58079

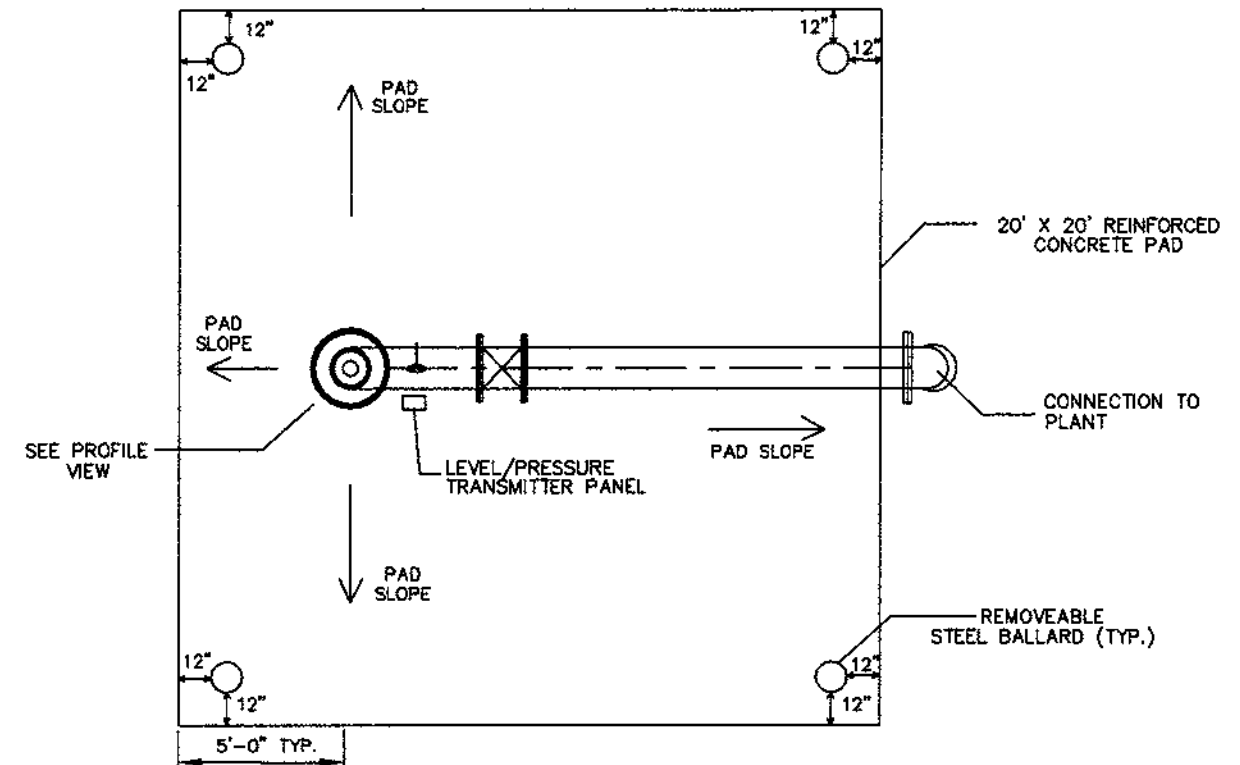


- A = 60" SQUARE CONCRETE BLOCK
- B = 54" O.D. STEEL
- C = 44" O.D. STEEL
- D = 38" O.D. STEEL
- E = 24" O.D. STEEL
- F = 22.5" DIAMETER DRILL BIT USED FOR OPEN HOLE  
BORE HOLE DIAMETER IS VARIABLE

**PROFILE VIEW**



**SLAB SIDE VIEW**



**TOP VIEW**

SEE PROFILE VIEW FOR DETAILS

Raymond W. Jones, P.E.  
FL Registration No.: 58079



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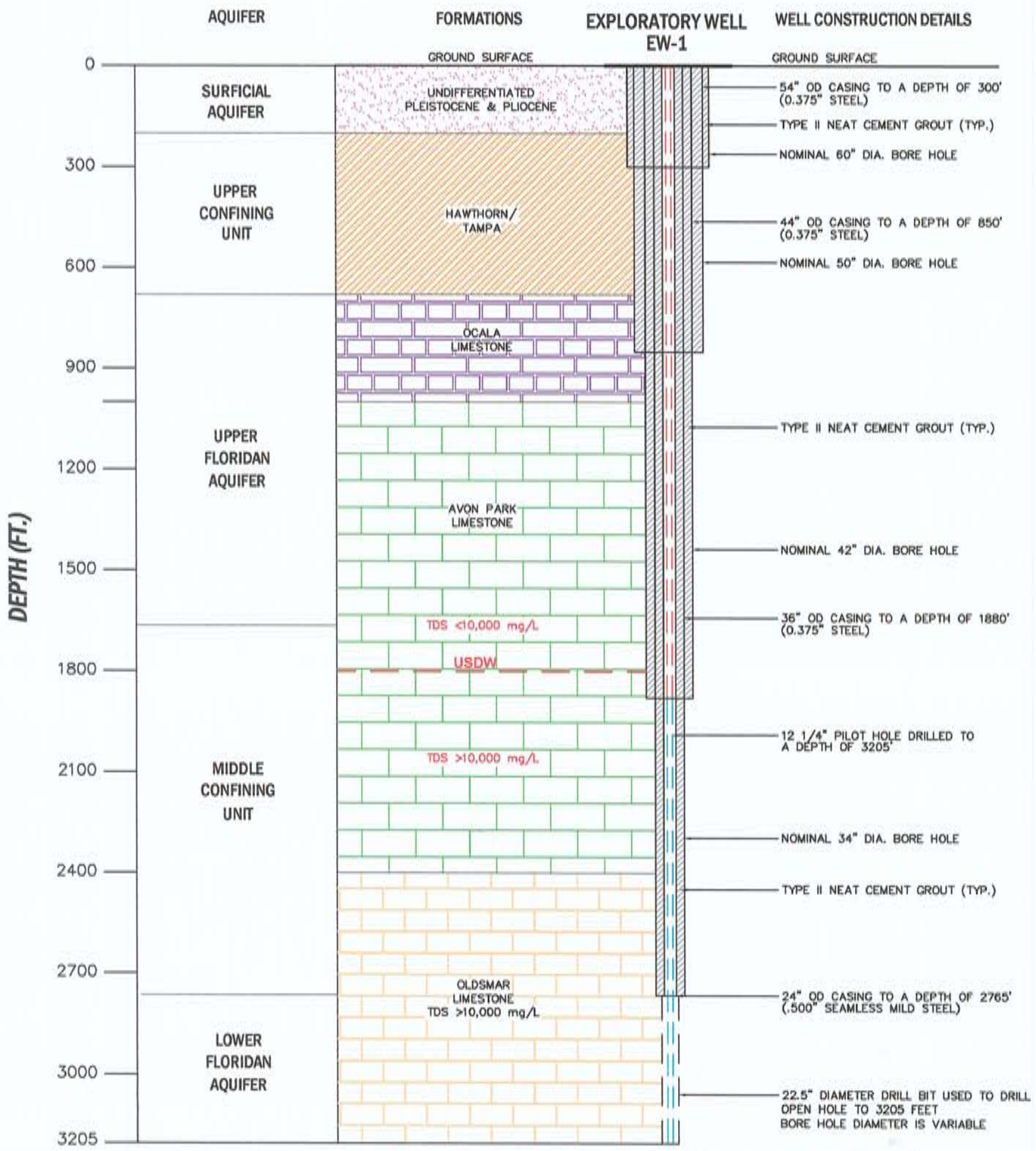
APPROXIMATE SCALE: N.T.S.  
DATE: 02/25/09  
ENGINEER: SA  
PN: GPGW-05-0430  
DRAWN BY: MS

DRILLING AND TESTING PLAN  
OKEECHOBEE WWTF EXPANSION  
UIC INJECTION WELL PROJECT  
OKEECHOBEE, FLORIDA

EXPLORATORY/INJECTION WELL HEAD DETAIL

FIGURE 11





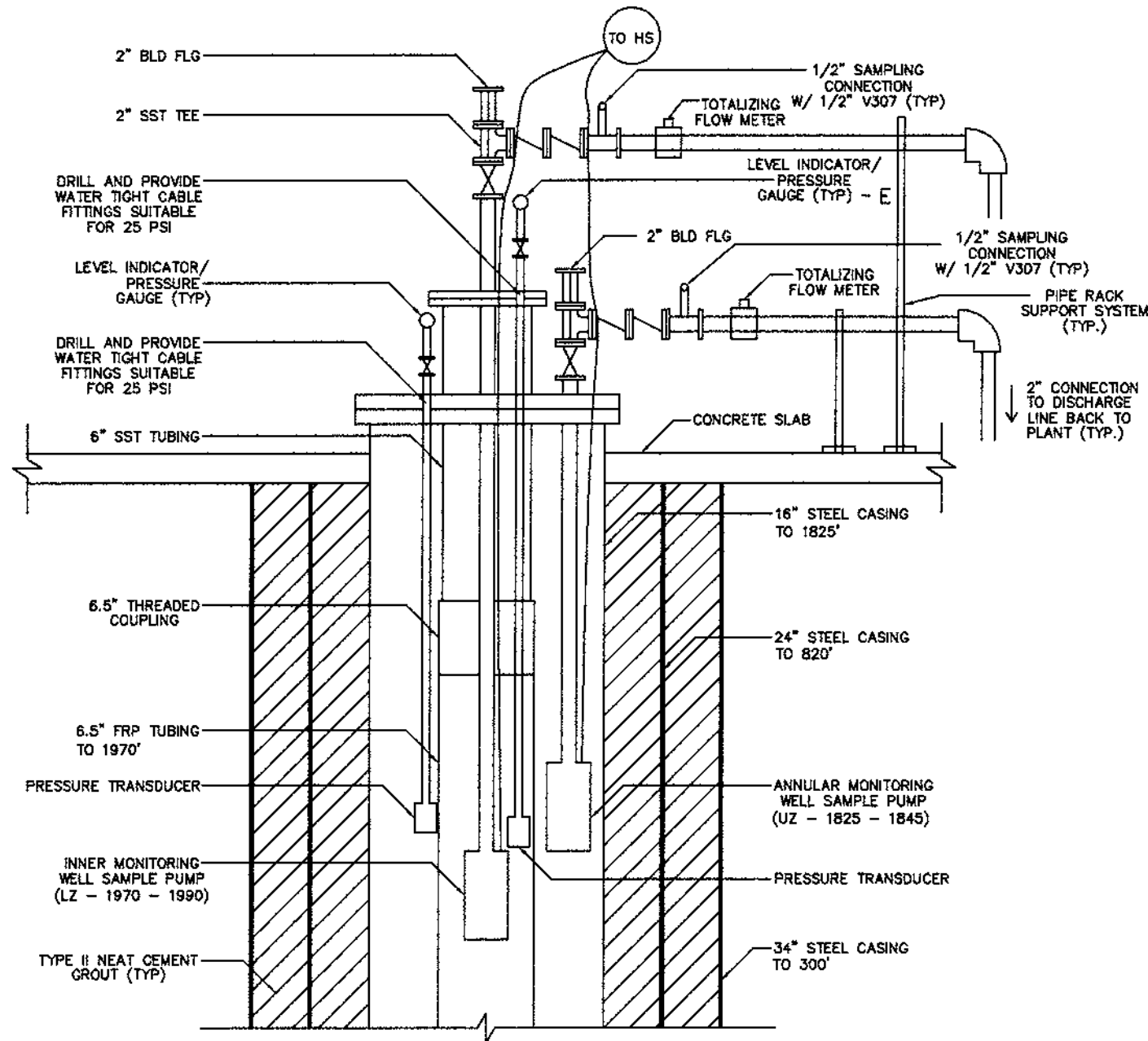
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Sanford, Florida 32771  
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Fax: 407-330-7765

Certificate of Authorization: 7634  
APPROXIMATE SCALE: N.T.S.  
DATE: 02/25/09 ENGINEER: RJ  
PNI:GPGW-05-0430 DRAWN BY: MS

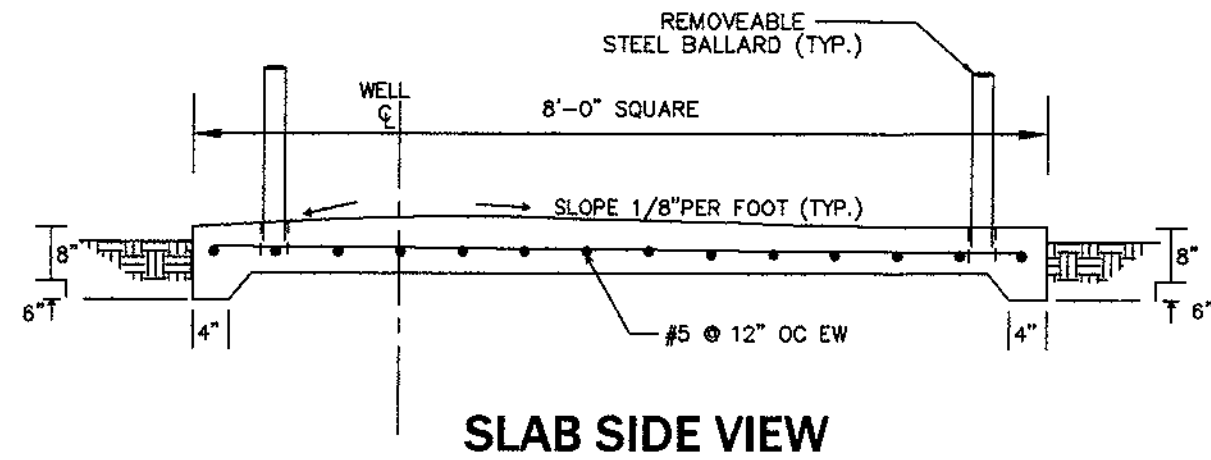
OKEECHOBEE WWTF EXPANSION  
UIC INJECTION WELL PROJECT  
OKEECHOBEE, FLORIDA  
EXPLORATORY WELL  
CONSTRUCTION DETAIL  
FIGURE 12

*[Signature]*  
Raymond W. Jones, P.E.  
FL Registration No. 58079

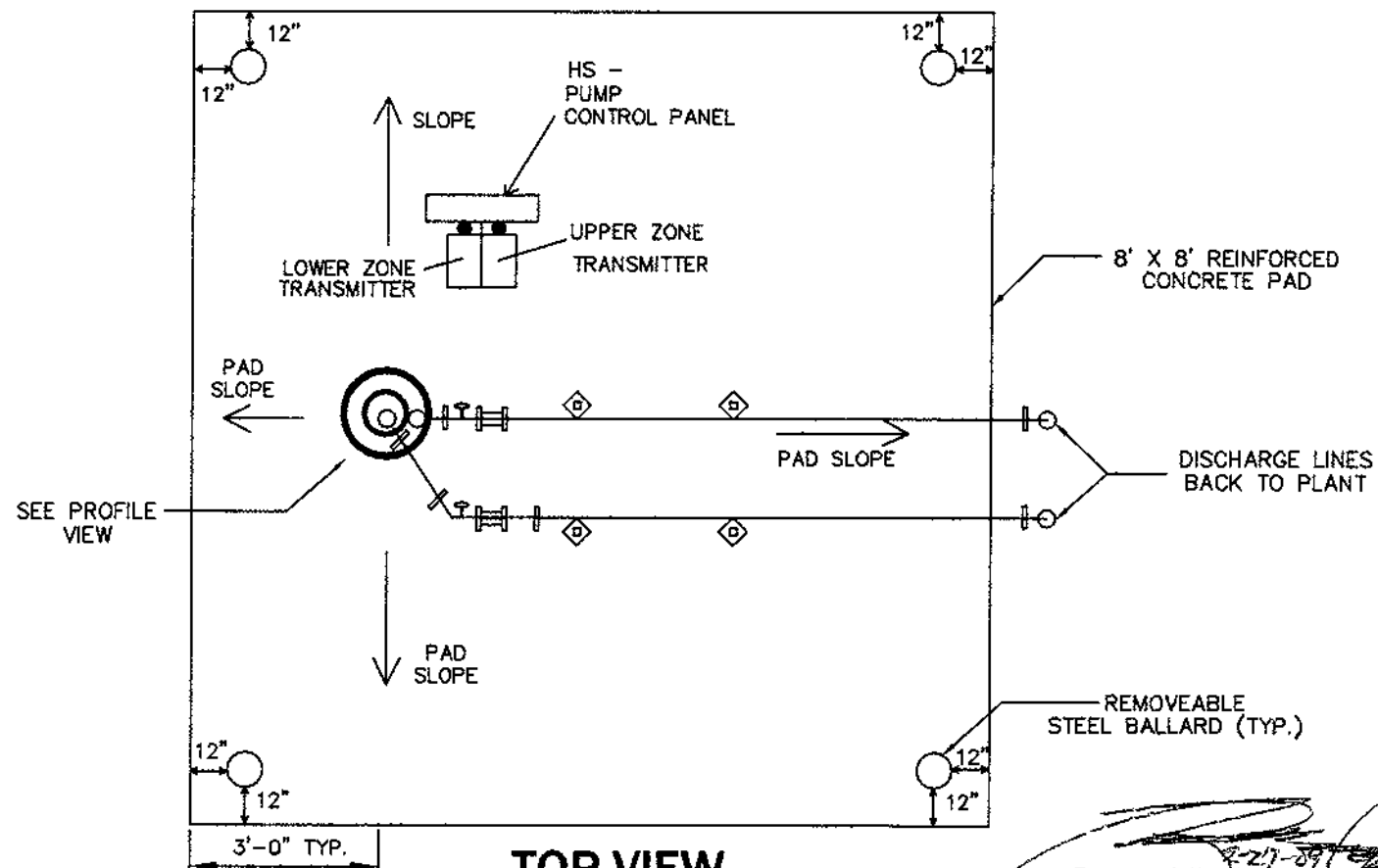


**PROFILE VIEW**

(SEE CASING CONSTRUCTION DETAILS IN FIGURE 14)



**SLAB SIDE VIEW**



**TOP VIEW**

Raymond W. Jones, P.E.  
FL Registration No.: 58079



**Andreyev Engineering, Inc.**  
SANFORD OFFICE

4055 St. Johns Parkway  
Sanford, Florida 32771  
407-330-7763  
Fax: 407-330-7765

Certificate of Authorization: 7634

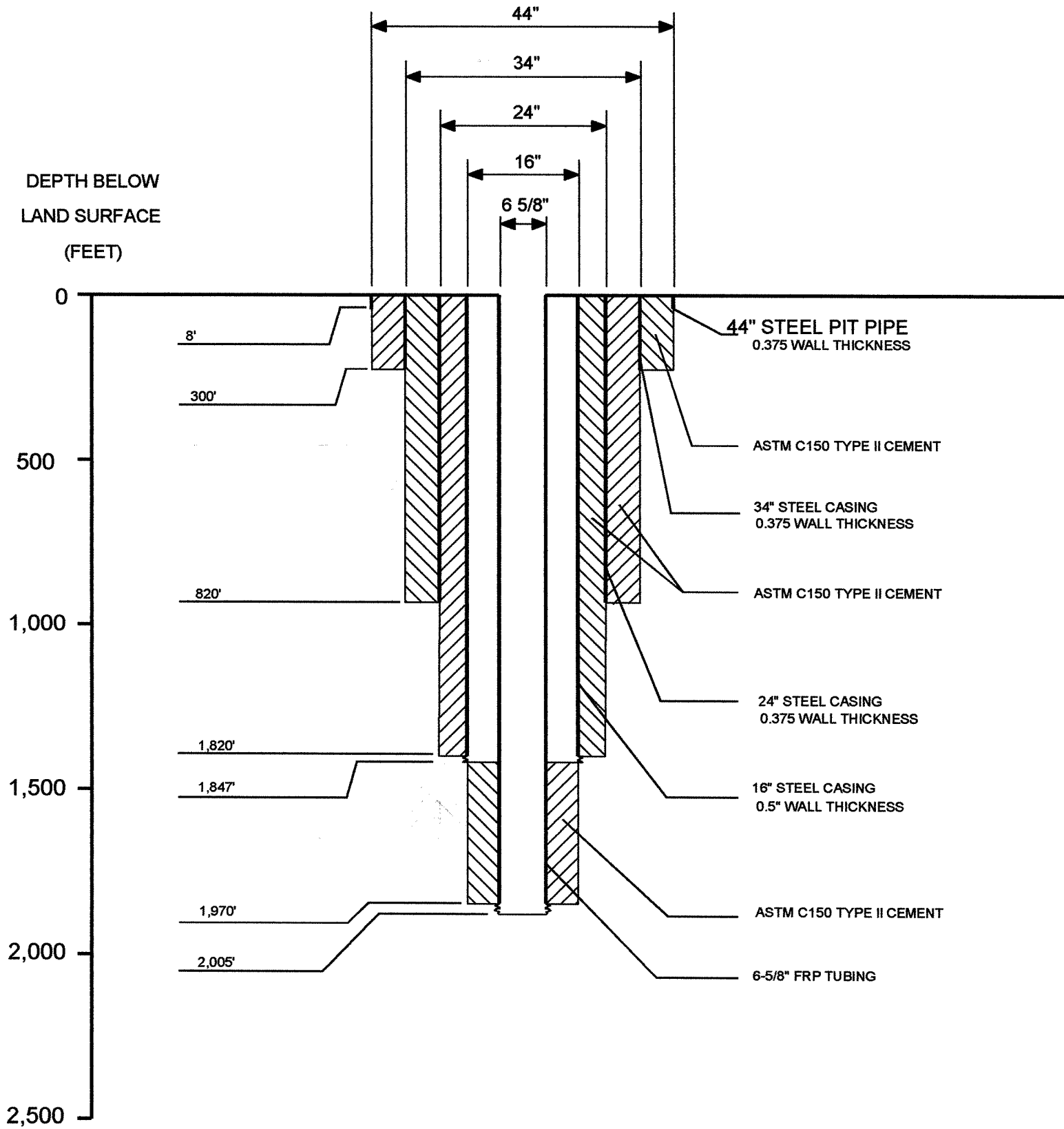
APPROXIMATE SCALE: N.T.S. DATE: 02/25/09 ENGINEER: SA  
PN:GPGW-05-0430 DRAWN BY: MS

DRILLING AND TESTING PLAN  
OKEECHOBEE WWTF EXPANSION  
UIC INJECTION WELL PROJECT  
OKEECHOBEE, FLORIDA

DUAL ZONE MONITORING WELL HEAD DETAIL

FIGURE 13

DUAL ZONE  
MONITORING WELL



NOT TO SCALE



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APPROXIMATE SCALE:

N.T.S.

DATE: 02/25/09

ENGINEER: RJ

PN:GPGW-05-0430

DRAWN BY: MS

DRILLING AND TESTING PLAN  
OKEECHOBEE WWTF EXPANSION  
UIC INJECTION WELL PROJECT

OKEECHOBEE, FLORIDA

DUAL ZONE MONITORING WELL  
CONSTRUCTION DETAIL

FIGURE 14

*[Signature]*  
Raymond W. Jones, P.E.  
FL Registration No.: 58079

## **APPENDIX 1**

**Report on the Construction and Testing of Exploratory Well EW-1 and Monitor Well DZMW-1 at the Okeechobee Utility Authority Cemetery Road Waste Treatment Facility, Vol. 1 & 2**

**(TWO STAND-ALONE BINDERS SEPARATE  
FROM THE RFI RESPONSE)**

## **APPENDIX 2**

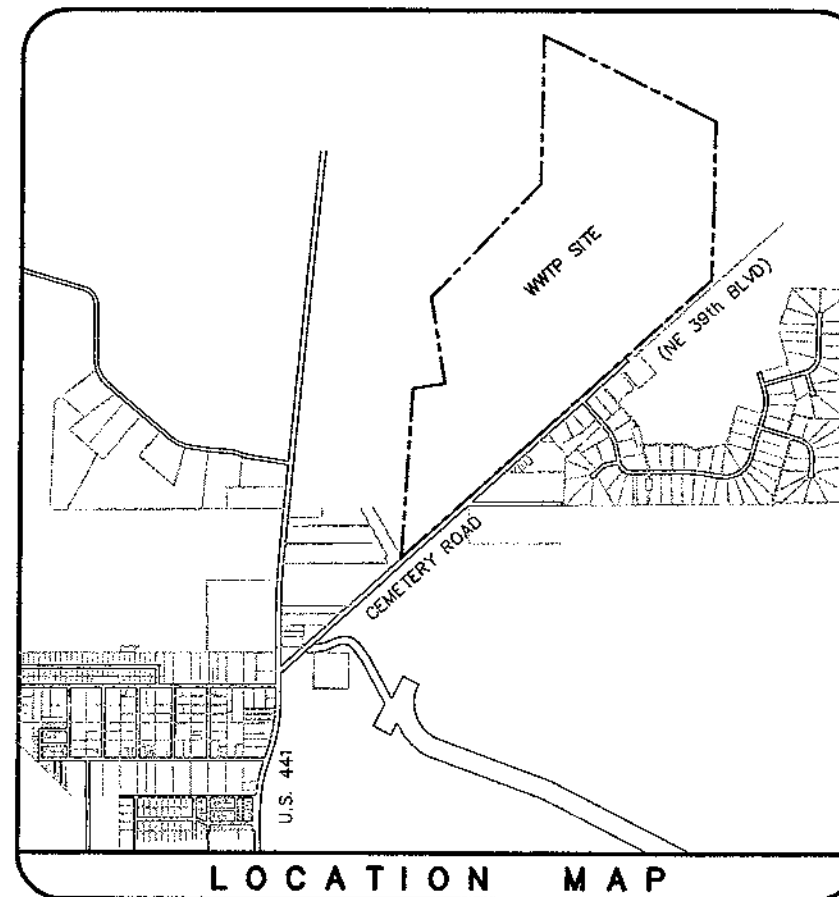
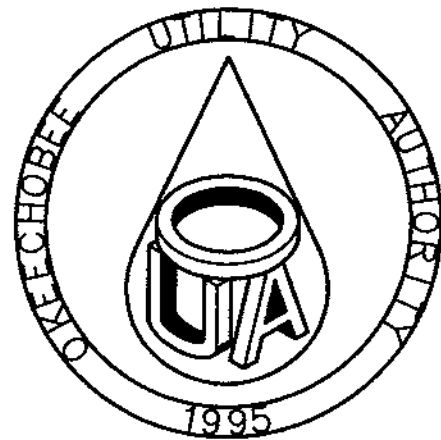
**Okeechobee Utility Authority Plans for the Construction of the  
Wastewater Treatment Plant Expansion to 3.0 MGD**

**Prepared by: Metzger and Millard, Inc.**

# OKEECHOBEE UTILITY AUTHORITY

## Plans for the Construction of the WASTEWATER TREATMENT PLANT EXPANSION TO 3.0 MGD

### CONTRACT No. 2



Okeechobee Utility Authority Board

George Long, Chairman

Steven D. Nelson, Vice Chairman

Carl Leonard, Second Vice Chairman

Elder Sumner, Member

Melanie Anderson, Member

Harry Moldenhauer, Alternate Member

Frank Erby, Alternate Member

Eddie Trent, Alternate Member

Executive Director

John Hayford, P.E.

# METZGER & WILLARD, INC.

Civil • Environmental Engineers • Surveyors

8808 Hidden River Parkway, Suite 550, Tampa FL 33637 (813) 977-6006

WASTEWATER TREATMENT PLANT EXPANSION TO 3.0 MGD  
PROJECT

JANUARY 2007

11340.05

DATE PROJECT No.

*S. Martelli* 2/24/09

SUSAN G. MARTELLI PROFESSIONAL ENGINEER  
FLORIDA REGISTRATION NUMBER 37940

### RECORD DRAWING

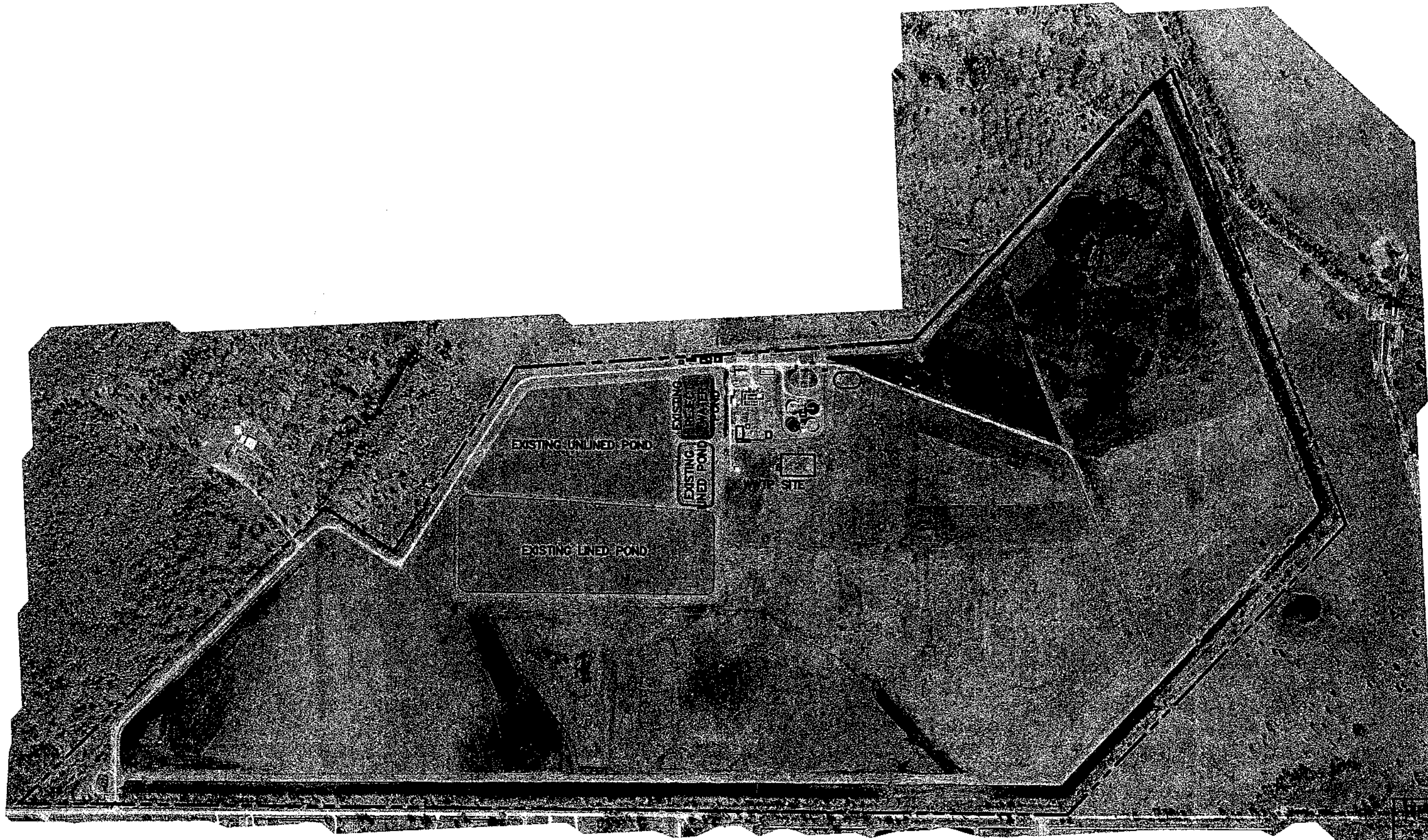
INFORMATION SUPPLIED BY:  
SHARITON-SMITH, INC.

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DATE: JANUARY 2007

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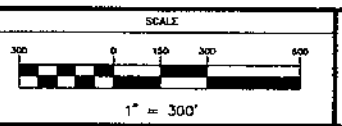
REVISIONS       NO REVISIONS

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JOB No.	11342.05						
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DATE	01/2007	No.	DATE	BY	APP.	REVISION	DESCRIPTION



Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
 EXPANSION TO 3.0 MGD**

**AERIAL - PROPOSED FACILITIES**

*S. Martell*  
 2124109  
 SUSAN G. MARTELL, P.E. NO. 37840

SHEET NUMBER  
**C-3**

**RECORD DRAWING**

INFORMATION SUPPLIED BY:  
WHARTON-SMITH, INC.

REVISIONS:  REVISIONS  NO REVISIONS  
DATE: JANUARY 2009

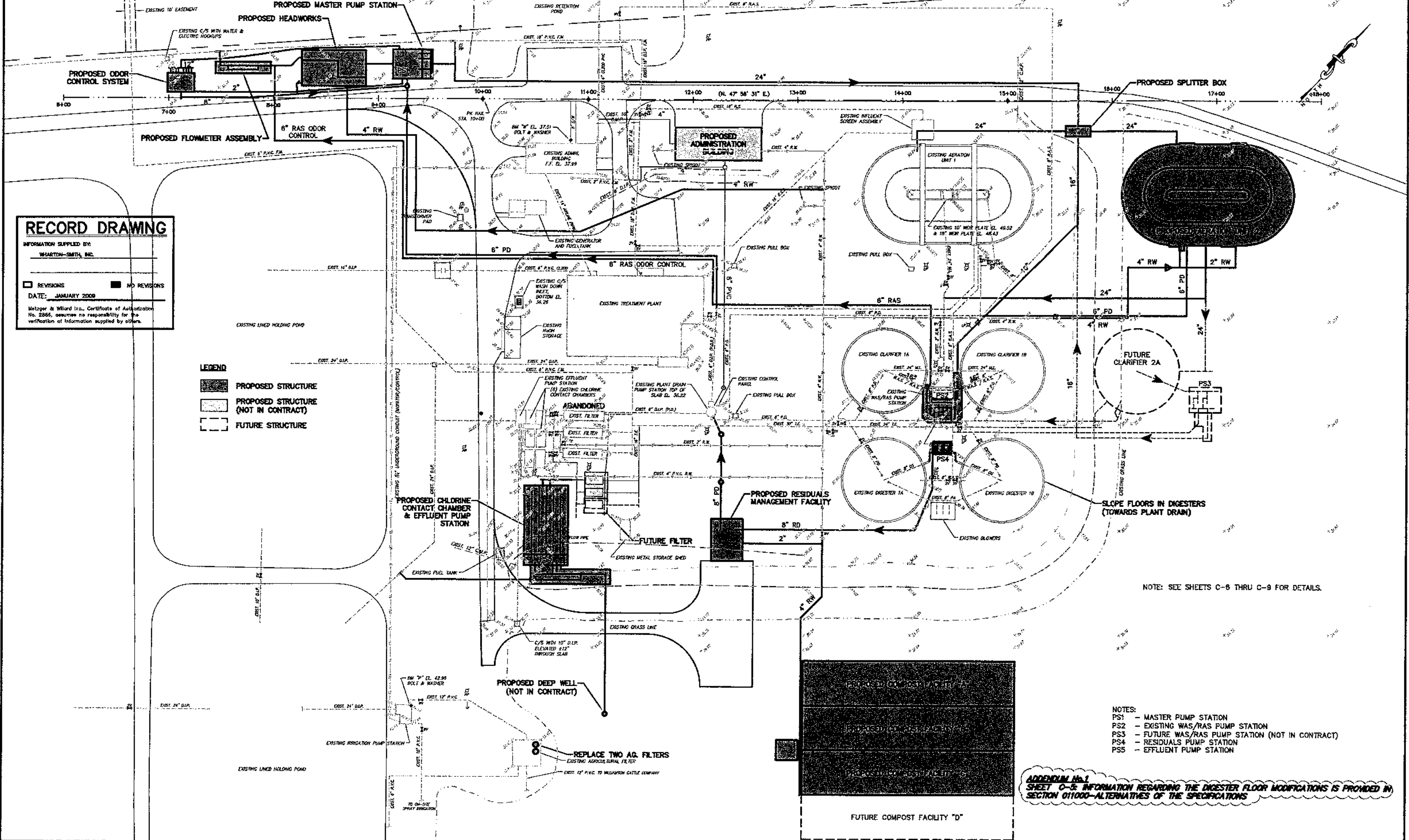
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**LEGEND**

PROPOSED STRUCTURE

PROPOSED STRUCTURE (NOT IN CONTRACT)

FUTURE STRUCTURE



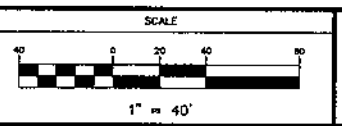
NOTE: SEE SHEETS C-6 THRU C-9 FOR DETAILS.

- NOTES:**
- PS1 - MASTER PUMP STATION
  - PS2 - EXISTING WAS/RAS PUMP STATION
  - PS3 - FUTURE WAS/RAS PUMP STATION (NOT IN CONTRACT)
  - PS4 - RESIDUALS PUMP STATION
  - PS5 - EFFLUENT PUMP STATION

**APPENDUM No. 1**  
SHEET C-5: INFORMATION REGARDING THE DIGESTER FLOOR MODIFICATIONS IS PROVIDED IN SECTION 01100-ALTERNATIVES OF THE SPECIFICATIONS

**METZGER & WILLARD, INC.**  
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Tampa, Florida 33637 (813) 977-6005  
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JOB No.	11338.04				
DESIGNED	S.C.M.				
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DATE	01/2007	No.	DATE	BY	APP
					REVISION DESCRIPTION

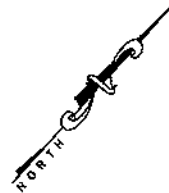


Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
EXPANSION TO 3.0 MGD**

**PROPOSED SITE SCHEMATIC**

*S.G. Martelli*  
2/24/09  
SUSAN G. MARTELLI, P.E. NO. 37340

SHEET NUMBER  
**C-5**



**ADDENDUM No. 2**  
**INFORMATION FOR THE TWO MANHOLES CONNECTING THE RESIDUALS MANAGEMENT FACILITY TO THE PLANT DRAIN PUMP STATION IS AS FOLLOWS:**

**MANHOLE CLOSEST TO PUMPSTATION**  
 TOP ELEVATION 36.50  
 INVERT ELEVATION (NW) 31.74  
 (SE) 31.75

**MANHOLE CLOSEST TO THE RESIDUALS MANAGEMENT FACILITY**  
 TOP ELEVATIONS 36.25  
 INVERT ELEVATIONS (NW) 31.83  
 (SE) 31.94

**GRAVITY SEWER 8" DIAMETER @ 0.4% SLOPE**

**ADDENDUM No. 2**  
**CONTRACTOR TO CONFIRM ELEVATIONS OF EXISTING PIPING WHERE NEW PIPING CROSSES EXISTING PRIOR TO PIPE INSTALLATION.**

**RECORD DRAWING**

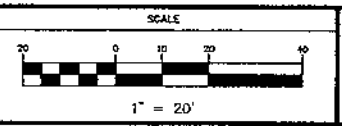
INFORMATION SUPPLIED BY:  
 EXISTING LINE AND CONDUIT COMPANY (MAY/20/2007)

REVISIONS:  NO REVISIONS

DATE: JANUARY 2009

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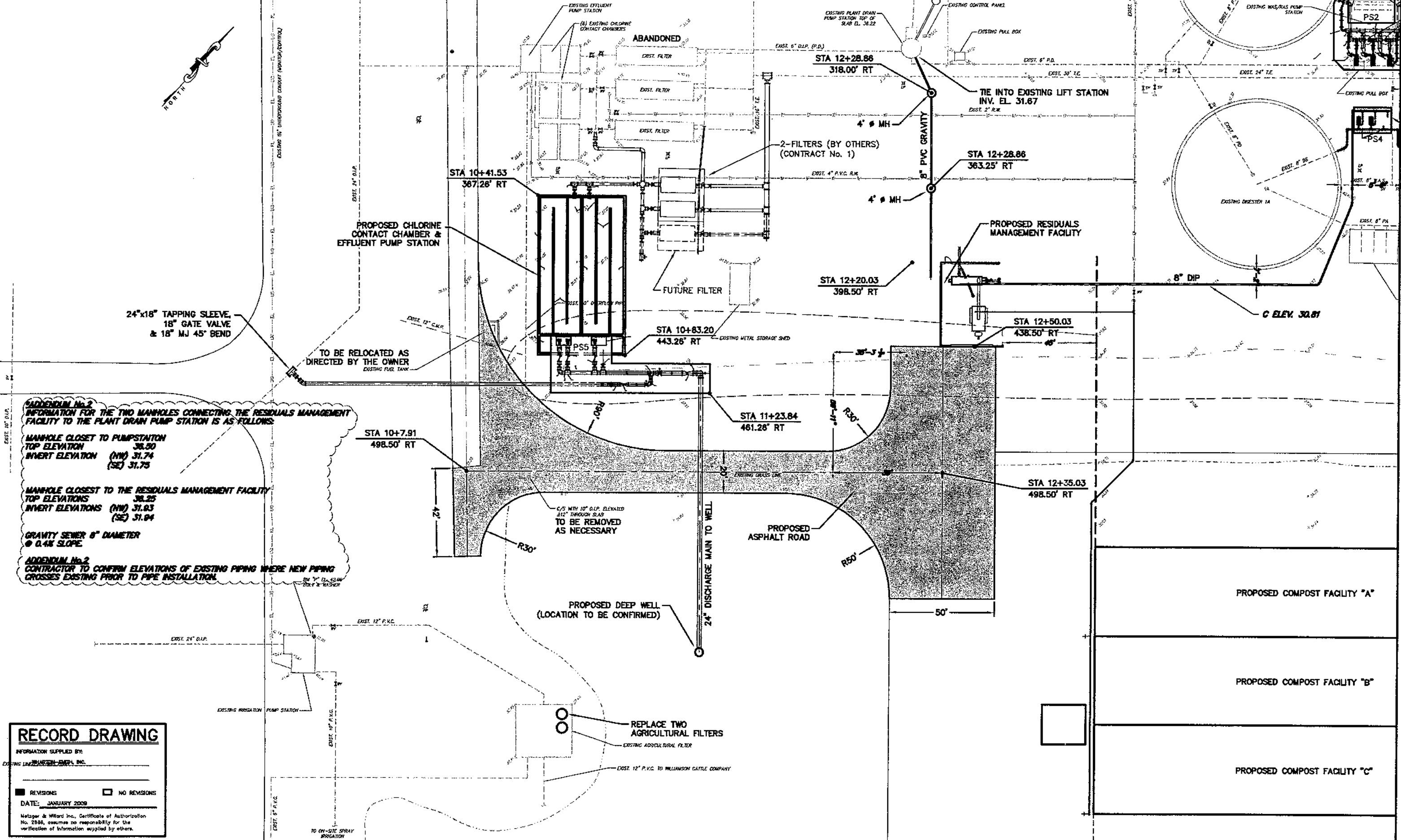
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DESIGNED	S.G.M.				
DRAWN	J.M.S.				
CHECKED	3	01/2009	P.F.		
DATE	01/2007	No.	DATE	BY	APP



Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
 EXPANSION TO 3.0 MGD**

**HORIZONTAL ALIGNMENT &  
 YARD PIPING PLAN**

SUSAN G. MARTELLI, P.E. NO. 37940  
 2/24/09  
 SHEET NUMBER  
**C-9**



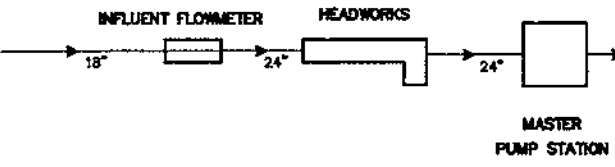


# RECORD DRAWING

INFORMATION SUPPLIED BY:  
WHARTON-SMITH, INC.

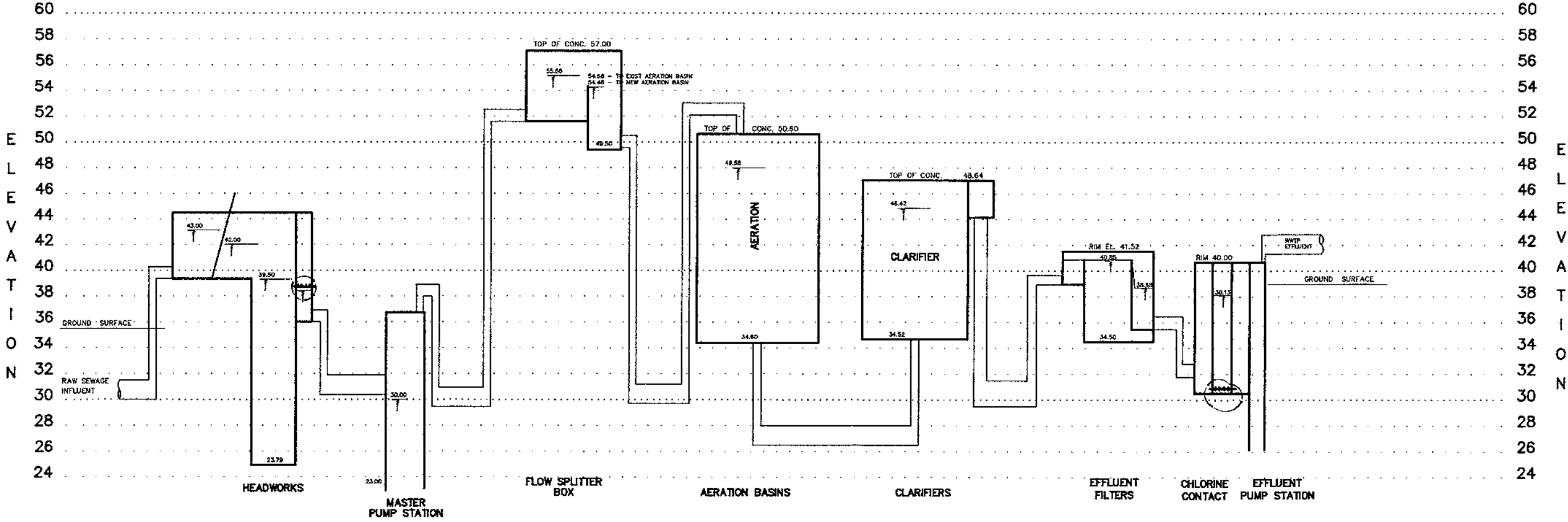
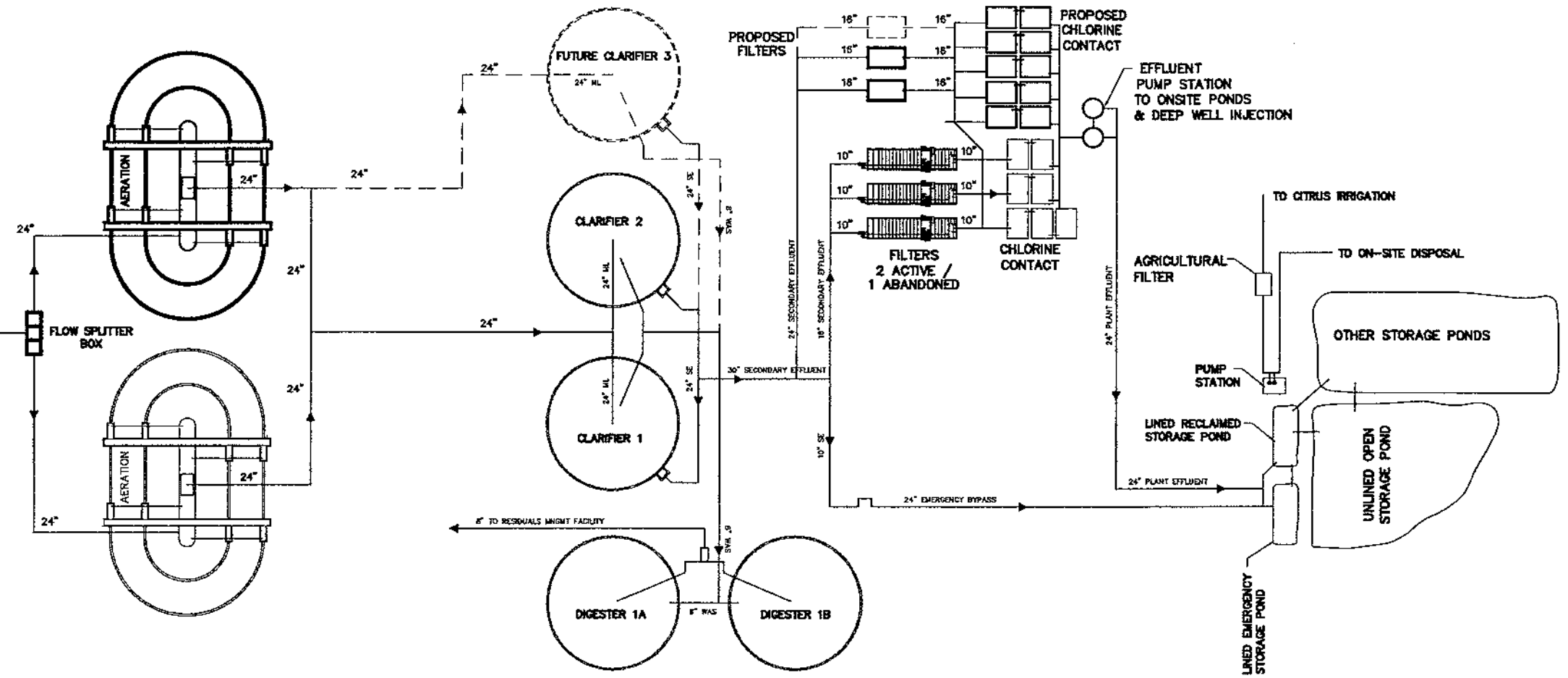
REVISIONS:  REVISIONS  NO REVISIONS  
DATE: JANUARY 2008

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DESIGNER'S NOTE: ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED SHALL BE AS FOLLOWS:  
 CONCRETE - 1/4" = 1'-0" (PER A.S.C. 101)  
 STEEL - 1/8" = 1'-0" (PER A.S.C. 101)  
 PIPE - 1/4" = 1'-0" (PER A.S.C. 101)

NOTE: HYDRAULIC CALCULATIONS BASED UPON FUTURE EXPANSION TO 4.0 MGD.



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 Certificate of Authorization No. 2886 - L.S. #7302

JOB No.	11340.05						
DESIGNED	S.G.W.						
DRAWN	J.M.S.						
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DATE	01/2007	No.		DATE	BY	APP	

SCALE  
NO SCALE

Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
 EXPANSION TO 3.0 MGD**

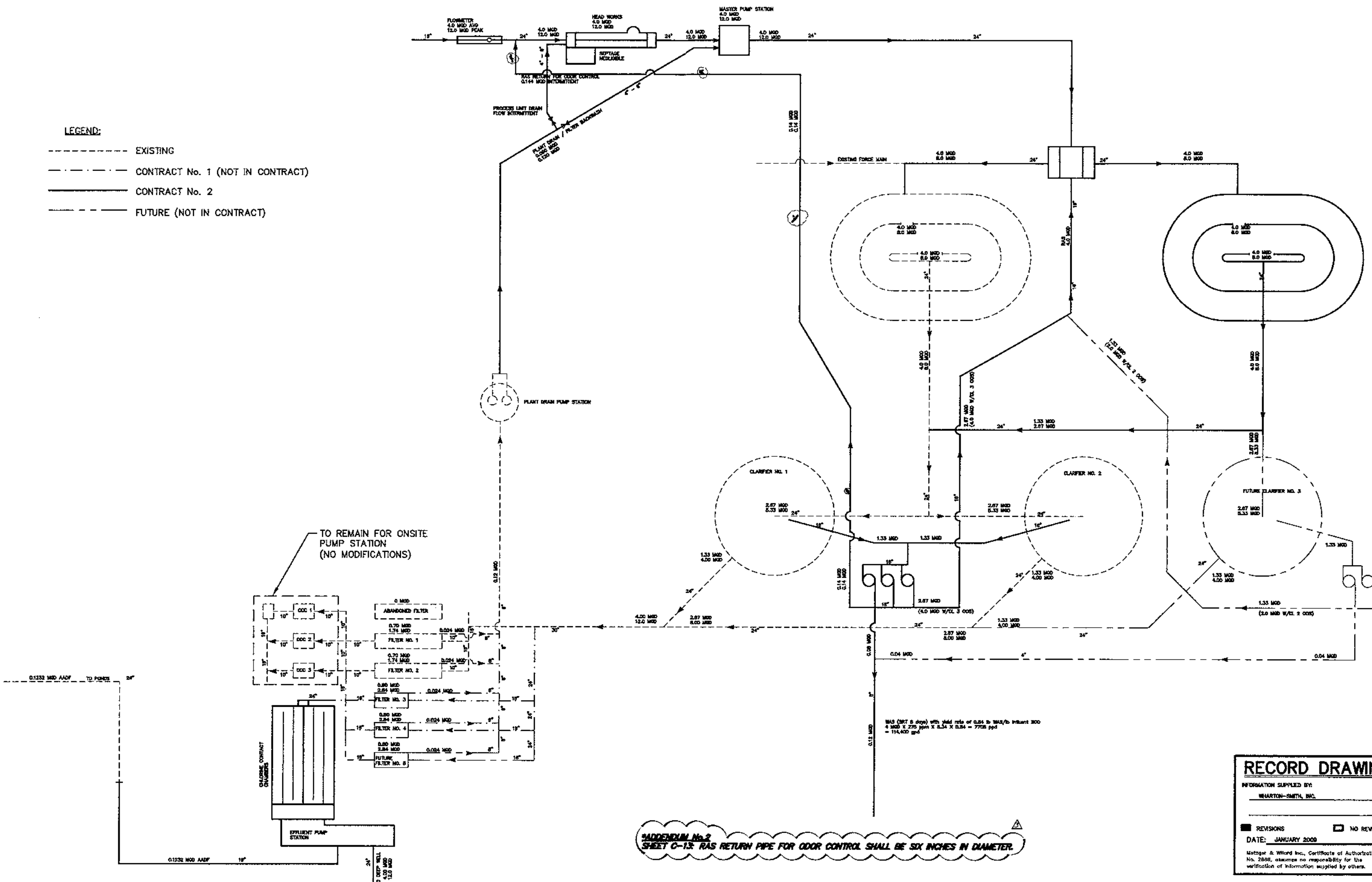
**HYDRAULIC PROFILE &  
 SCHEMATIC FLOW DIAGRAM 1 MGD**

*Susan G. Martelli*  
 2/24/08  
 SUSAN G. MARTELLI, P.E. NO. 57940

SHEET NUMBER  
**C-12**

**LEGEND:**

- EXISTING
- - - CONTRACT No. 1 (NOT IN CONTRACT)
- CONTRACT No. 2
- - - FUTURE (NOT IN CONTRACT)



TO REMAIN FOR ONSITE PUMP STATION (NO MODIFICATIONS)

300 (207 @ drops) with yield rate of 0.54 to 0.54/yb in/ant 300  
 4 MGD X 275 ppm X 0.54 X 0.54 = 7708 ppd  
 = 114,400 gal

**ADDENDUM No. 2**  
 SHEET C-13: RAS RETURN PIPE FOR ODOR CONTROL SHALL BE SIX INCHES IN DIAMETER.

**RECORD DRAWING**

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DATE: JANUARY 2009

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DATE 01/2009	No.	DATE	BY	APP.	REVISION	DESCRIPTION		

SCALE	NO SCALE
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Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT EXPANSION TO 3.0 MGD**

**FLOW DIAGRAM**

SUSAN G. MARTELLI P.E. NO. 37940  
 2/24/09  
 SHEET NUMBER **C-13**

GENERAL NOTE:  
 SHEET M-20: TWO-INCH DIAMETER CHLORINE SOLUTION SHALL BE CONNECTED TO THE EXISTING CHLORINE SOLUTION PIPING AT THE EXISTING CHLORINE CONTACT BASIN. PROVIDE APPROPRIATE FITTINGS.

SHEET M-20: PIPING FROM EFFLUENT FILTERS IS 10-INCHES IN DIAMETER, NOT 24-INCHES AS SHOWN.

SHEET M-20:

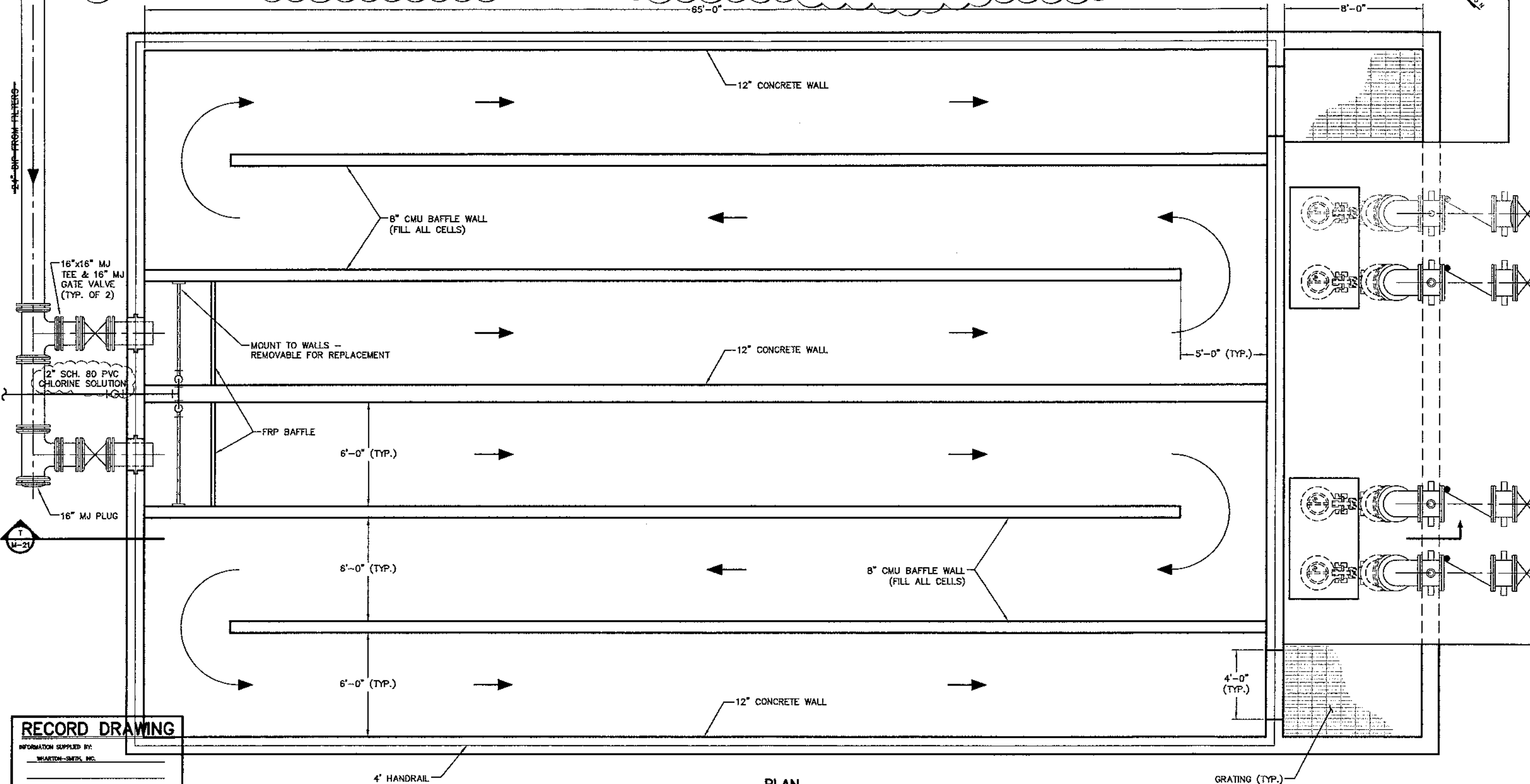
A. ADD ONE 2.5x2.5x1'-8" DEEP SLAB PER CONTACT TRAY (TWO TOTAL) IN THE AREA OF THE COMMON WALL WITH THE EFFLUENT PUMP STATION.

SHEET M-20:

B. PROVIDE TWO-INCH SLUICE GATE (ON PER TRAY) CONNECTING THE CHLORINE CONTACT BASIN WITH EFFLUENT PUMP STATION FOR MAINTENANCE. SLUICE GATE SHALL BE RODNEY HUNT SERIES R-800 OR AN APPROVED EQUIVALENT PRODUCT. SLUICE GATE SHALL HAVE RESILIENT SEATS, SOLID BRONZE DISCS, AND SHALL DIRECT MOUNT ON PIPE SET IN WALL OF THE STRUCTURE. SLUICE GATES SHALL HAVE FLOOR STANDS, HANGING STEMS AND PIPE COVER FOR STEMS.

C. INFLUENT PIPING TO CONNECT 1 PIPING AT THE 16-INCH GATE VALVE ENTER THE EFFLUENT FILTERS.

D. PROVIDE WALL SLEEVE WITH WATER STOP OR LINK SEALS AT INFLUENT PIPING PENETRATIONS.



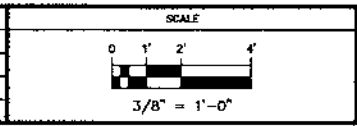
**RECORD DRAWING**

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REVISIONS: [ ] NO REVISIONS  
 DATE: JANUARY 2009

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DRAWN	J.M.S.				
CHECKED					
DATE	01/2007	No.	DATE	BY	APP.
					REVISION DESCRIPTION

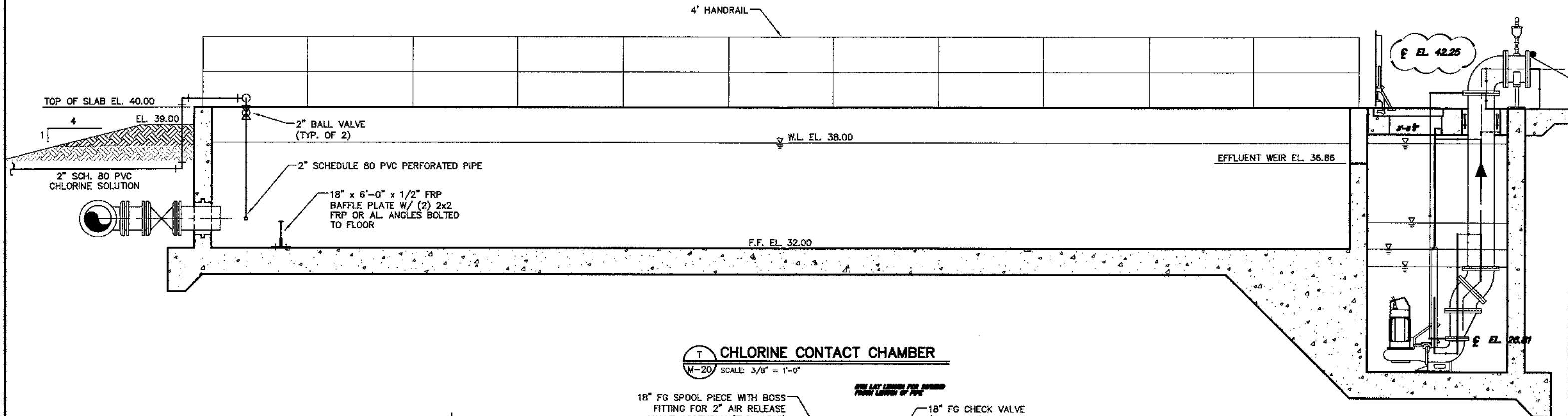


Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
 EXPANSION TO 3.0 MGD**

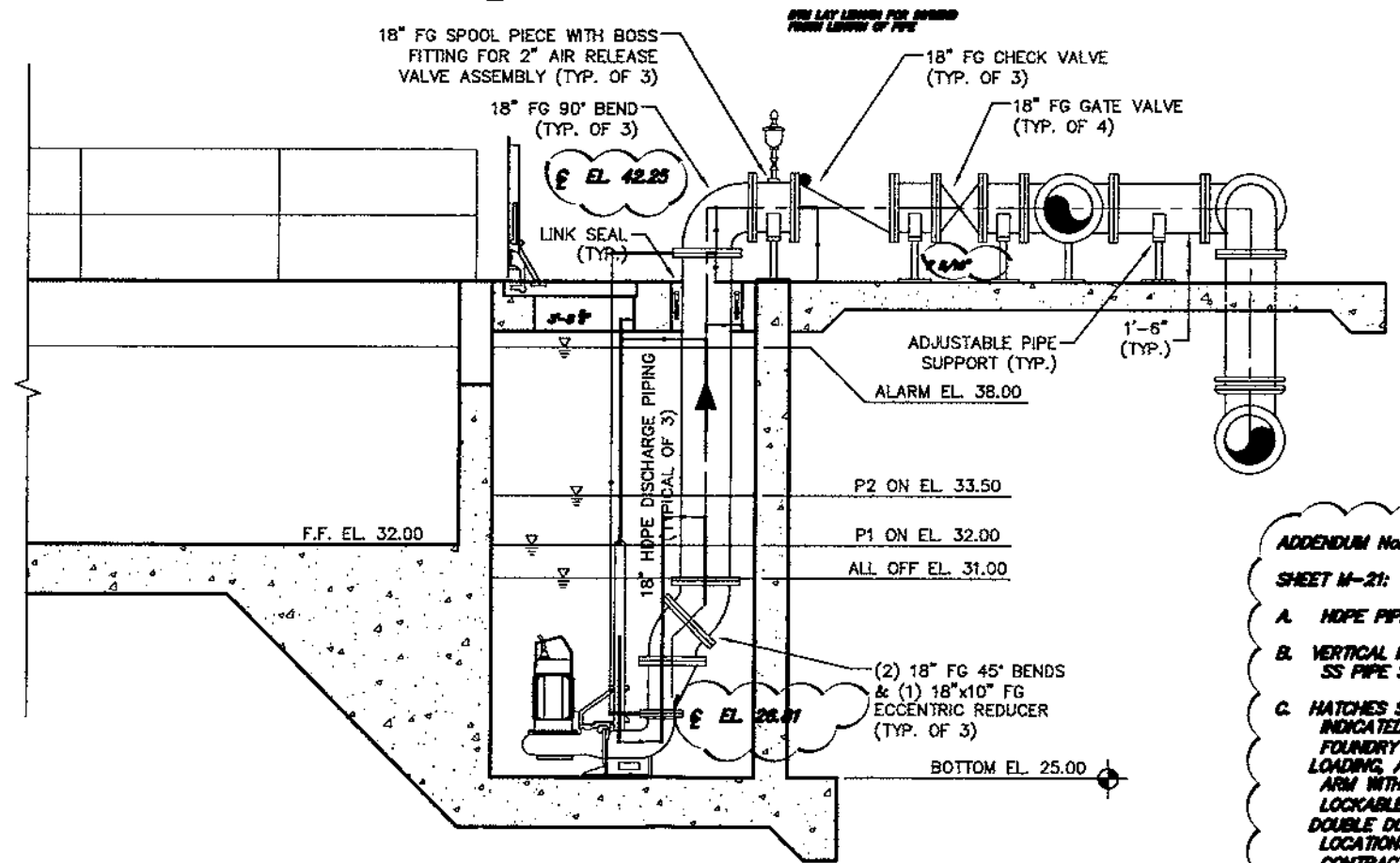
**PROPOSED CHLORINE CONTACT  
 CHAMBER - PLAN**

SHEET NUMBER  
**M-20**

SUSAN G. HARRELL, P.E. NO. 57940



**T CHLORINE CONTACT CHAMBER**  
 M-20 SCALE: 3/8" = 1'-0"



**U EFFLUENT PUMP STATION**  
 M-22 SCALE: 3/8" = 1'-0"

- ADDENDUM No.2**  
**SHEET M-21:**
- A. HIPE PIPE SHALL BE MINIMUM DR11.
  - B. VERTICAL INFLUENT PIPING IN NET WELL SHALL BE SUPPORTED TO THE WALL WITH 316 SS PIPE SUPPORTS, TWO MINIMUM.
  - C. HATCHES SHALL BE SIZED AS REQUIRED BY THE PUMP MANUFACTURER OR AS INDICATED ON THE DRAWING. AT A MINIMUM, THE HATCHES SHALL BE US FOUNDRY ANGLE FRAME, HEAVY DUTY, SINGLE OR DOUBLE DOOR (AS SHOWN), H2O LOADING, ALUMINUM DIAMOND PLATE, STAINLESS STEEL AUTOMATIC HOLD OPEN ARM WITH RED VINYL GRIP, STAINLESS STEEL HINGES WITH TAMPER PROOF BOLTS LOCKABLE, WITH ALUMINUM HINGED SAFETY GATES IN SAFETY ORANGE (SINGLE OR DOUBLE DOORS TO MATCH HATCHES). ALL HARDWARE SHALL BE 316 SS. HATCH LOCATIONS SHALL BE COORDINATED WITH PUMP GUIDE RAIL LOCATIONS. AT THE CONTRACTOR'S OPTION, PROVIDE REMOVABLE GRATING IN LIEU OF HATCHES OVER THE PUMPS.

**RECORD DRAWING**

INFORMATION SUPPLIED BY:  
 WHARTON-SMITH, INC.

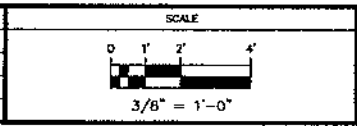
REVISIONS:  NO REVISIONS

DATE: JANUARY 2008

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 Tampa, Florida 33637 (813) 977-6005  
 Certificate of Authorization No. 2206 - L.S. #7302

JOB No.	11340.05						
DESIGNED	S.G.M.						
DRAWN	J.M.S.						
CHECKED							
DATE	01/2007	No.	DATE	BY	APP.	REVISION	DESCRIPTION

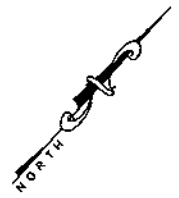


Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
 EXPANSION TO 3.0 MGD**

**PROPOSED CHLORINE CONTACT  
 CHAMBER - SECTIONS**

SHEET NUMBER  
**M-21**

SUSAN G. MARTELLI P.E. NO. 37946



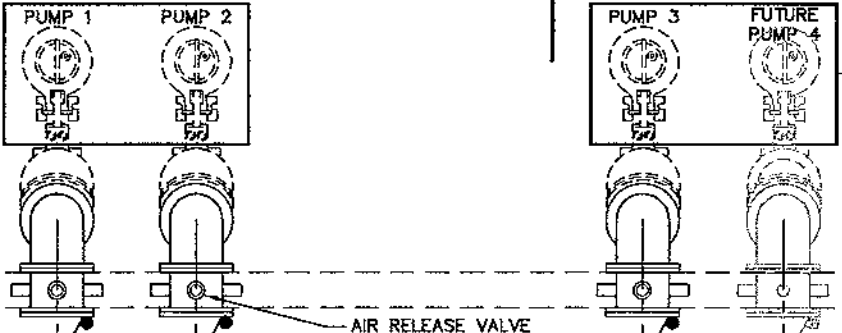
EFFLUENT SAMPLE PUMP  
CL2/pH MONITOR  
TO MCC400 AND PLC 400 TO SCADA  
SYSTEM

**ADDENDUM No.1**  
SHEET M-22: AUTOMATIC SAMPLER SHALL BE INSTALLED TO SAMPLE FROM THE EFFLUENT PUMP STATION WET WELL. SAMPLER SHALL BE FLOW FACED AND CONTROLLED BY THE FLOW METER ASSEMBLIES.

**ADDENDUM No.2**  
SHEET M-22: PROVIDE AN 18-INCH DIAMETER FLANGE COUPLING ADAPTER BETWEEN THE TWO SETS OF PUMPS.

HATCH COVERS OR GRATED OPENINGS  
(REMOVABLE) AT CONTRACTOR'S OPTION.  
SIZE AS RECOMMENDED BY PUMP SUPPLIER.

AUTOMATIC  
SAMPLER



AIR RELEASE VALVE  
LOCATION (TYP.)

18" SPOOL PIECES  
(TYP. OF 7)

18" BLIND FLANGE

PIPE SUPPORT (TYP.)

18"x18" FG TEE WITH  
BOSS FITTING FOR ARV

24" SPOOL PIECE WITH BOSS FITTING  
FOR PRESSURE GAUGE ASSEMBLY

18" FG  
90° BEND

18" SPOOL PIECES  
(TYP. OF 3)

18"x18" FG TEE  
(TYP. OF 3)

DPT

24" VENTURI METER

18" DIP TO EXISTING REJECT POND

18" FG 90° BEND

DPT = DIFFERENTIAL PRESSURE TRANSMITTER

18" SPOOL PIECE WITH BOSS FITTING  
FOR PRESSURE GAUGE ASSEMBLY

18" VENTURI METER

24" DIP TO FUTURE WELL

PRESSURE TRANSMITTER FROM WELL  
WIRED TO MCC400 AND PLC400 AND TO SCADA SYSTEM

**PLAN**

**RECORD DRAWING**

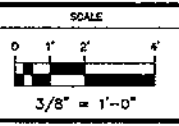
INFORMATION SUPPLIED BY:  
WHARTON-SMITH, INC.

REVISIONS:  REVISIONS  NO REVISIONS

DATE: JANUARY 2009

Metzger & Willard Inc., Certificate of Authorization No. 2888, assumes no responsibility for the verification of information supplied by others.

JOB No.	11340.05						
DESIGNED	S.G.M.						
DRAWN	J.M.C.						
CHECKED							
DATE	01/20/07	No.	DATE	BY	APP.	REVISION	DESCRIPTION



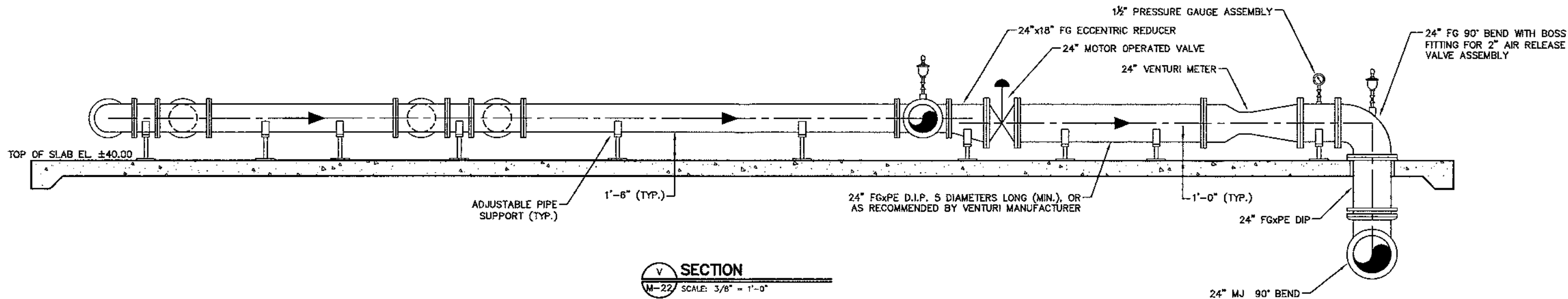
Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
EXPANSION TO 3.0 MGD**

**PROPOSED EFFLUENT PUMP  
STATION (PS5) - PLAN**

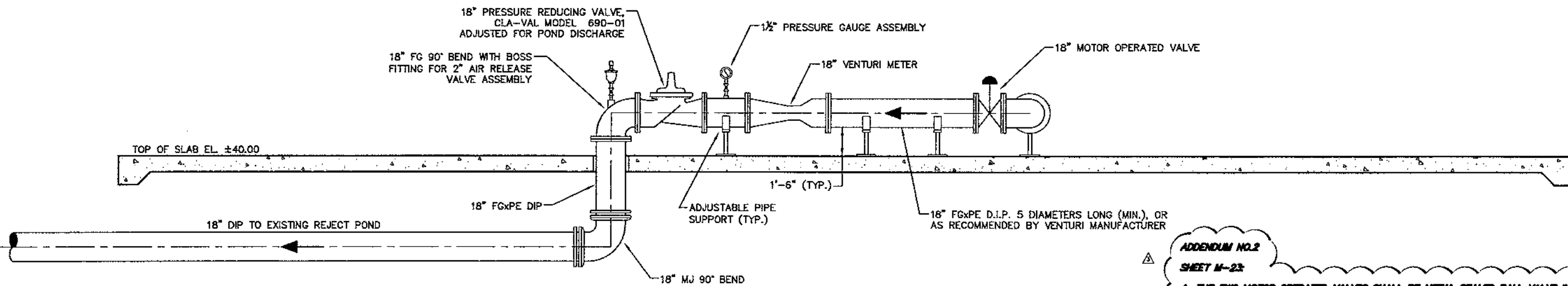
*Susan G. Martelli*  
2/24/09  
SUSAN G. MARTELLI, P.E. No. 37840

SHEET NUMBER  
**M-22**





**SECTION V**  
M-22 SCALE: 3/8" = 1'-0"



**SECTION W**  
M-22 SCALE: 3/8" = 1'-0"

**ADDENDUM NO.2**  
**SHEET M-23:**

- A. THE TWO MOTOR OPERATED VALVES SHALL BE METAL SEALED BALL VALVE IN ACCORDANCE WITH SPECIFICATIONS.
- B. PROVIDE 24-INCH FLANGE TEE WITH BLIND FLANGE TAPPED FOR 24-INCH AIR RELEASE VALVE IN LIEU OF 24-INCH 90 DEGREE BEND WITH BOSS
- C. PROVIDE 18-INCH FLANGE WITH BLIND FLANGE TAPPED FOR 2-INCH AIR RELEASE VALVE IN LIEU OF 18-INCH 90 DEGREE BEND WITH BOSS 2-INCH AIR RELEASE VALVE ASSEMBLY

**RECORD DRAWING**

INFORMATION SUPPLIED BY:  
HEARTON-SMITH, INC.

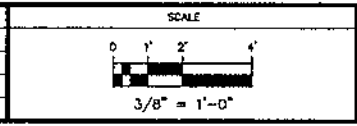
REVISIONS:  REVISIONS  NO REVISIONS

DATE: JANUARY 2009

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**METZGER & WILLARD, INC.**  
Civil - Environmental Engineers - Surveyors  
8800 Hidden River Parkway, Suite 550  
Tampa, Florida 33637 (813) 977-6005  
Certificate of Authorization No. 2806 - L.B. #7302

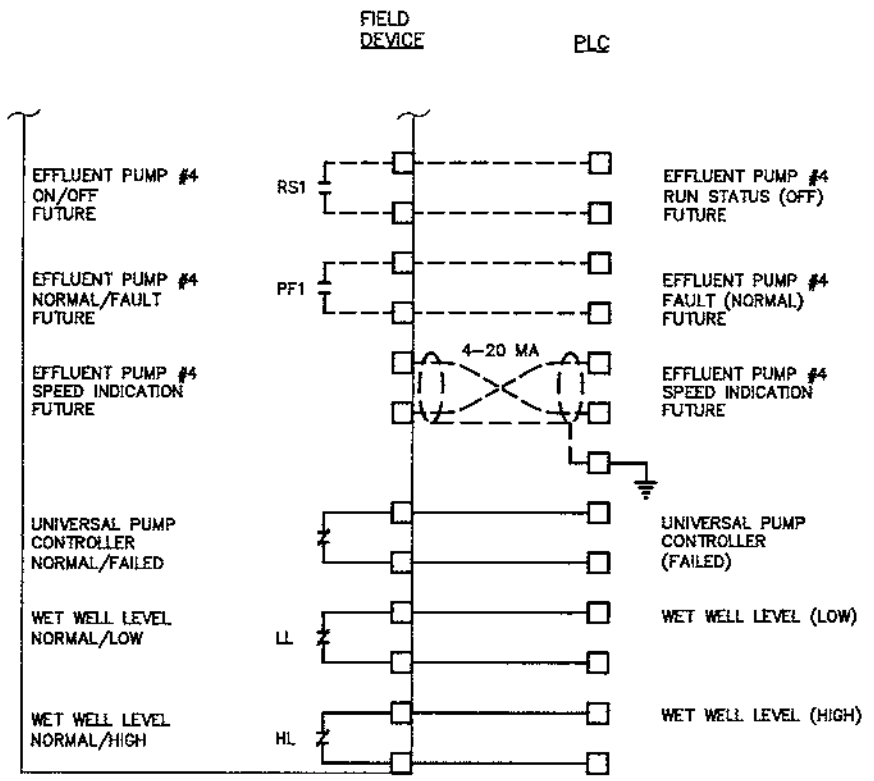
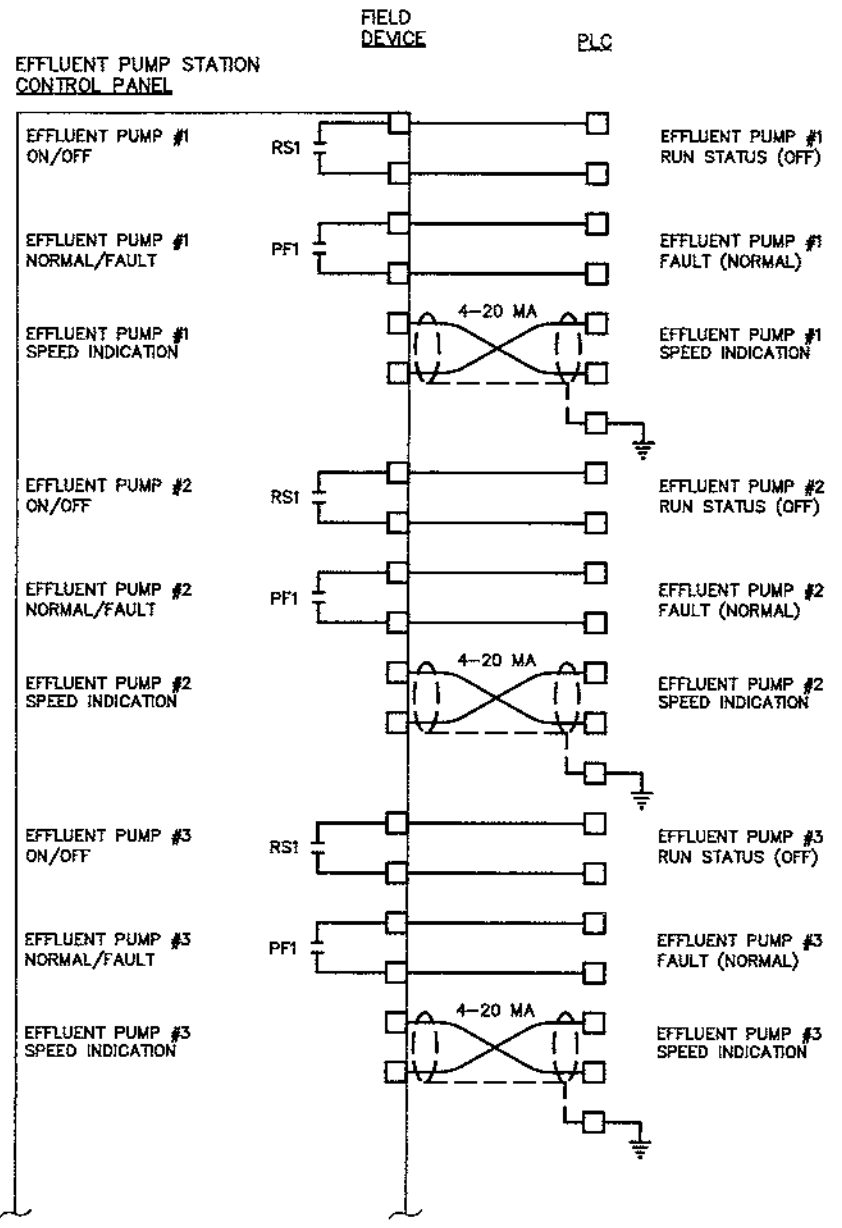
JOB No.	11340.05				
DESIGNED	S.G.M.				
DRAWN	J.M.S.				
CHECKED		3	01/2009	P.F.	RECORD DRAWINGS
DATE	01/2007	No.	DATE	BY	APP
					REVISION DESCRIPTION



Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
EXPANSION TO 3.0 MGD**

**PROPOSED EFFLUENT PUMP  
STATION (PS5) - SECTIONS**

SHEET NUMBER  
*S.G.M.*  
2/24/09  
SUSAN G. WARTLELL, P.E. NO. 37940  
**M-23**



**NOTES:**

1. TURBIDITY METERS CONTROL MOTOR-OPERATED REJECT VALVES PRIOR TO EACH DISCFILTER. WHEN CLOSED, FLOW IS TRANSFERRED TO THE REJECT WATER POND.
2. VALVE POSITION IS INDICATED ONLY WHEN RESPECTIVE CONTACT IS CLOSED. AN OPEN CONTACT MAY INDICATE "IN TRANSIT" STATE.
3. CONTACTS ARE SHOWN IN DE-ENERGIZED STATE.

**METZGER & WILLARD, INC.**  
 Civil • Environmental Engineers • Surveyors  
 8600 Hidden River Parkway, Suite 550  
 Tampa, Florida 33637 (813) 977-6006  
 Certificate of Authorization No. 2868 - L.B. #1302

JOB No.	11340 05								
DESIGNED	S.G.M.								
DRAWN	J.M.S.								
CHECKED									
DATE	01/2007	No.	DATE	BY	APP.	REVISION	DESCRIPTION		

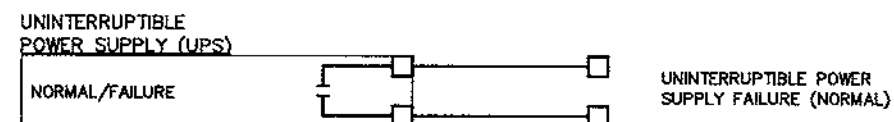
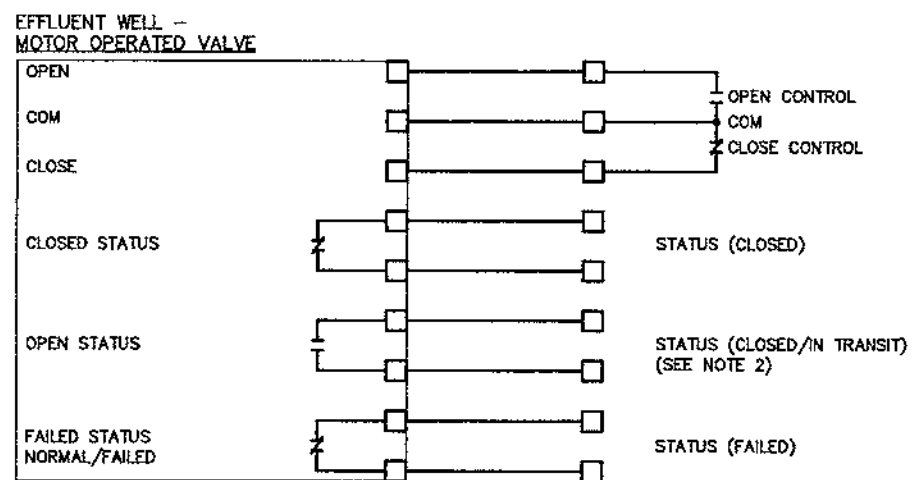
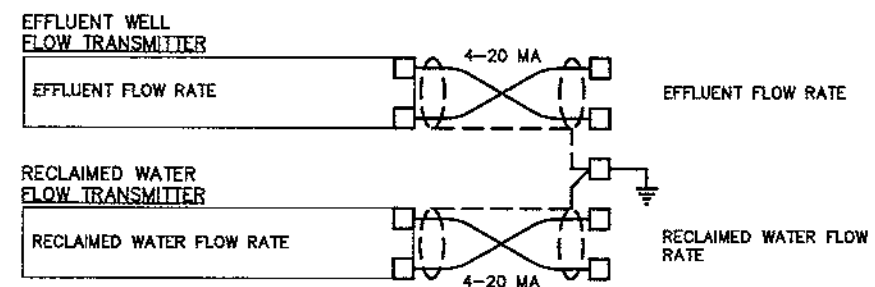
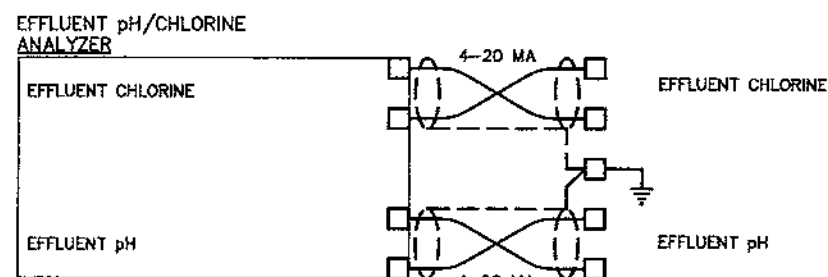
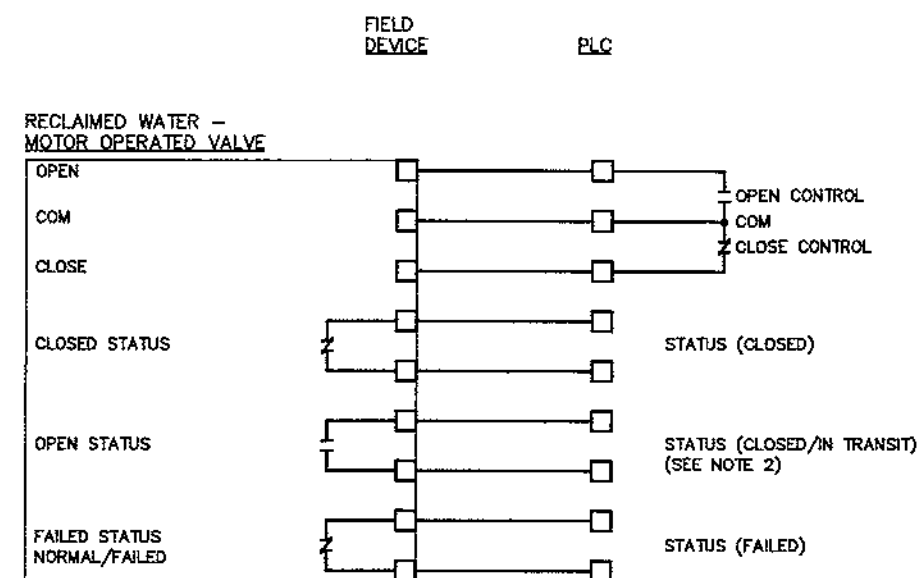
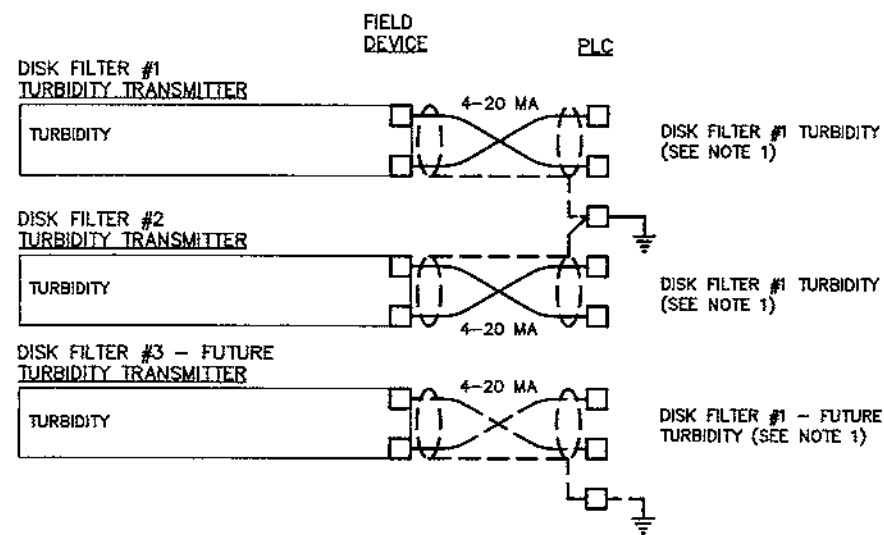
SCALE  
NO SCALE

Okeechobee Utility Authority  
**WASTEWATER TREATMENT PLANT  
 EXPANSION TO 3.0 MGD**

**PID DIAGRAM**

*S.M. Martello*  
 2/24/09  
 SUSAN C. MARTELLO, P.E. NO. 37040

SHEET NUMBER  
**PID-1**



NOTES:

1. TURBIDITY METERS CONTROL MOTOR-OPERATED REJECT VALVES PRIOR TO EACH DISCFILTER. WHEN CLOSED, FLOW IS TRANSFERRED TO THE REJECT WATER POND.
2. VALVE POSITION IS INDICATED ONLY WHEN RESPECTIVE CONTACT IS CLOSED. AN OPEN CONTACT MAY INDICATE "IN TRANSIT" STATE.
3. CONTACTS ARE SHOWN IN DE-ENERGIZED STATE.

JOB No.	11340.05	SCALE				
DESIGNED	S.G.M.	NO SCALE				
DRAWN	J.M.S.					
CHECKED						
DATE	01/2007	No.	DATE	BY	APP.	REVISION DESCRIPTION