GATOR WATERWORKS, INC.

October 21, 2019

FILED 10/21/2019 DOCUMENT NO. 09480-2019 FPSC - COMMISSION CLERK

Office of Commission Clerk Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399

Re: Docket No. 20190114-WU – Application for staff assisted rate case by Gator Waterworks, Inc. in Alachua County – Main Replacement – Construction Permit and Plans

Dear Commission Clerk,

Gator Waterworks, Inc. (Gator) hereby respectfully submits the attached Construction Permit from the Florida Department of Environmental Protection (FDEP), as well as the Construction Plans.

Please include these documents in the above referenced docket.

Respectfully Submitted,

Troy Rendell Vice President

Investor Owned Utilities

//For Gator Utility Company, Inc.



FLORIDA DEPARTMENT OF Environmental Protection

Northeast District 8800 Baymeadows Way West, Suite 100 Jacksonville, Florida 32256 Ron DeSantis Governor

Jeanette Nuñez Lt. Governor

Noah Valenstein Secretary

Notification of Acceptance of Use of a General Permit

Mr. Gary Deremer President Gator Waterworks, Inc. 4939 Cross Bayou Boulevard New Port Richey, Florida 34652 gderemer@uswatercorp.net

General Permit Number: 0325725-003-DSGP Project Name: Gator Waterworks, Inc. -Water Main Replacement

County: Alachua

Effective Date: October 18, 2019 Expiration Date: October 17, 2024 Water Supplier: Gator Waterworks, Inc.

PWS ID: 2010612

Dear Mr. Deremer:

On October 16, 2019, the Florida Department of Environmental Protection received a "Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWSs" [DEP Form No 62-555.900(7)], under the provisions of Rule 62-4.530 and Chapter 62-555, Florida Administrative Code (F.A.C.). The proposed project includes 5,725 LF of 6" water main.

Based upon the submitted Notice and accompanying documentation, this correspondence is being sent to advise that the Department does not object to the use of such general permit at this time. Please be advised that the permittee is required to abide by Rule 62-555.405, F.A.C., all applicable rules in Chapters 62-4, 62-550, 62-555, F.A.C., and the General Conditions for All General Drinking Water Permits (found in 62-4.540, F.A.C.).

The permittee shall comply with all sampling requirements specific to this project. These requirements are attached for review and implementation.

Pursuant to Rule 62-555.345, F.A.C., the permittee shall submit a certification of construction completion [DEP Form No. 62-555.900(9)] to the Department and obtain approval, or clearance, from the Department before placing any water main extension constructed under this general permit into operation for any purpose other than disinfection or testing for leaks.

Within 30 days after the sale or legal transfer of ownership of the permitted project that has not been cleared for service in total by the Department, both the permittee and the proposed permittee shall sign and submit an application for transfer of the permit using Form 62-555.900(8), F.A.C., with the appropriate fee. The permitted construction is not authorized past the 30-day period unless the permit has been transferred.

Gator Waterworks, Inc. - Water Main Replacement 0325725-003-DSGP Page 2 of 3 October 18, 2019

This permit will expire five years from the effective date. If the project has been started and not completed by that time, a new permit must be obtained before the expiration date in order to continue work on the project, per Rule 62-4.030, F.A.C.

Sincerely,

Jeffrey S. Martin, P.E.

Cheg Martin

Chief Engineer

Permitting Program

c:

Mohammed Kader, P.E., mkader@uswatercorp.net

DEP: Jennifer Lyles, Tom Kallemeyn

A Civil Penalty May Be Incurred if this project is placed into operation before obtaining a clearance from this office.

Requirements for clearance upon completion of projects are as follows:

1) Clearance Form

Submission of a fully completed Department of Environmental Protection (DEP) Form 62-555.900(9), Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components into Operation.

2) Record Drawings, if deviations were made

Submission of the portion of record drawings showing deviations from the DEP construction permit, including preliminary design report or drawings and specifications, if there are any deviations from said permit. (Note that it is necessary to submit a copy of only the portion of record drawings showing deviations and not a complete set of record drawings.)

3) Bacteriological Results

Copies of satisfactory bacteriological analysis (a.k.a. Main Clearance), taken within sixty (60) days of completion of construction, from locations within the distribution system or water main extension to be cleared, in accordance with Rules 62-555.315(6), 62-555.340, and 62-555.330, F.A.C. and American Water Works Association (AWWA) Standard C 651-92, as follows:

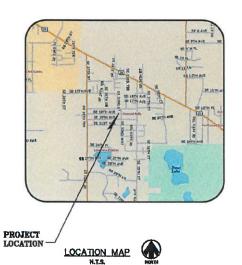
- The endpoint of the proposed addition;
- Any water lines branching off a main extension;
- Every 1,200 feet of water main;
- Each location shall be sampled on two consecutive days (at least 6 hours apart) with sample point locations and chlorine residual readings clearly indicated on the report and/or drawings.
- A sketch or description of all bacteriological sampling locations must also be provided.
- Bacteriological sample results will be considered unacceptable if the tests were completed more than 60 days before the Department receives the results.

For further clarification, contact:

FDEP – Northeast District
Potable Water Permitting
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256
(904) 256-1700

GATOR WATERWORKS, INC. ALACHUA COUNTY, FLORIDA

18 AVENUE AND 19TH AVENUE WATER MAIN REPLACEMENT



LOCATION:

3280 SE 19TH AVENUE GANESHILE, FL 32604 PWS ID: 201-0812 PID: 16189-001-017, 16134-022-000 FEMA MAP: 1200103180 (EFFECTIVE 6/16/2006) AREA OF MINIMAL FLOOD HAZARD

PROJECT DESCRIPTION:

PROPOSED ACTIVITIES INCLUDE THE INSTALLLATION OF 5,725 L.F. OF 6° DRIB COOD PVC, 3 FIRE HYDRANTS, AND ALL NECESSARY VALVES, FITTINGS, AND APPURTENANCES.

PROJECT TEAM

GATOR WATERWORKS, INC. 4939 CROSS BAYOU BLVD. NEW PORT RICHEY, FL 34652 TELEPHONE: (727) 846-8282

PROFESSIONAL ENGINEERING SERVICES -U.S. WATER SERVICES CORPORATION 4839 CROSS BAYOU BLVD. HEW PORT RICHEY, FL 34692-3434 (727) 848-8292 - FAX (727) B48-7701

UTILITIES -

POWER - GRU (352) 334-3434 WATER - PRIVATE ONSITE (727) 848-8282



4839 Cross Bayou Blvd. New Port Richey, Florida 34652-3434 Phone: (727) 848-8292 Fax: (727) 848-7701 FL. COA NO. 9754 & FL. REG. NO. 45129

INDEX OF DRAWINGS

SHEET

T TITLE

NO.

- COVER SHEET
- 2 PROPOSED SITE PLAN
- SAMPLING PLAN
- 4 WATER NOTES
- 5 WATER DETAILS

PREPARED FOR:
GATOR WATER
WORKS, INC.
ALACHUA COUNTY

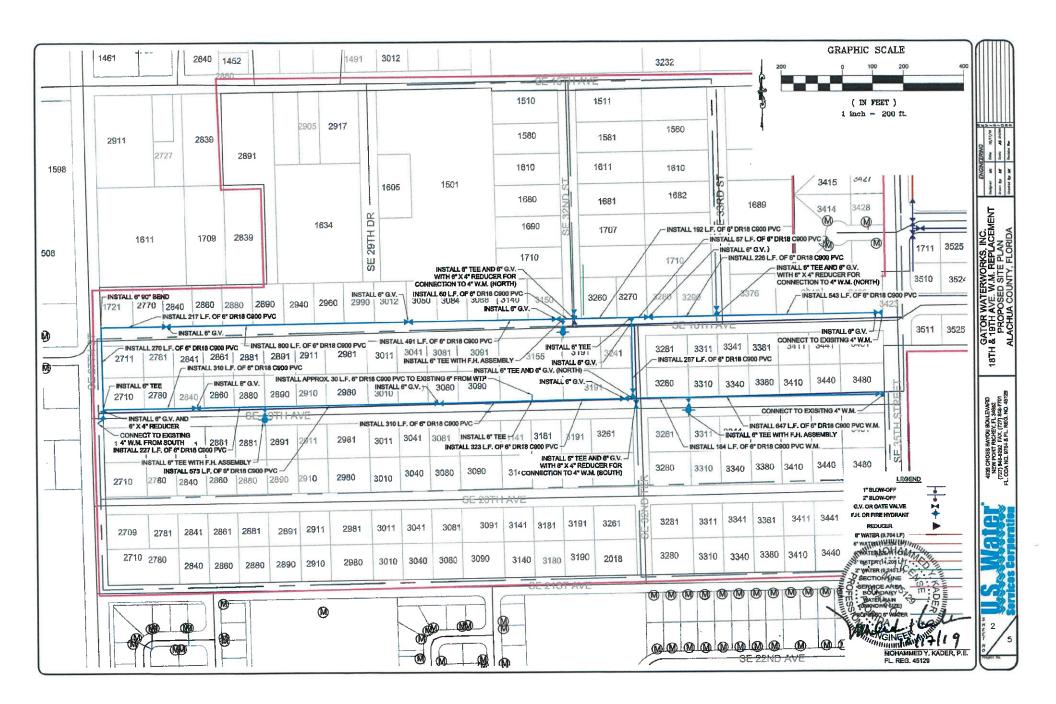
FLORIDA

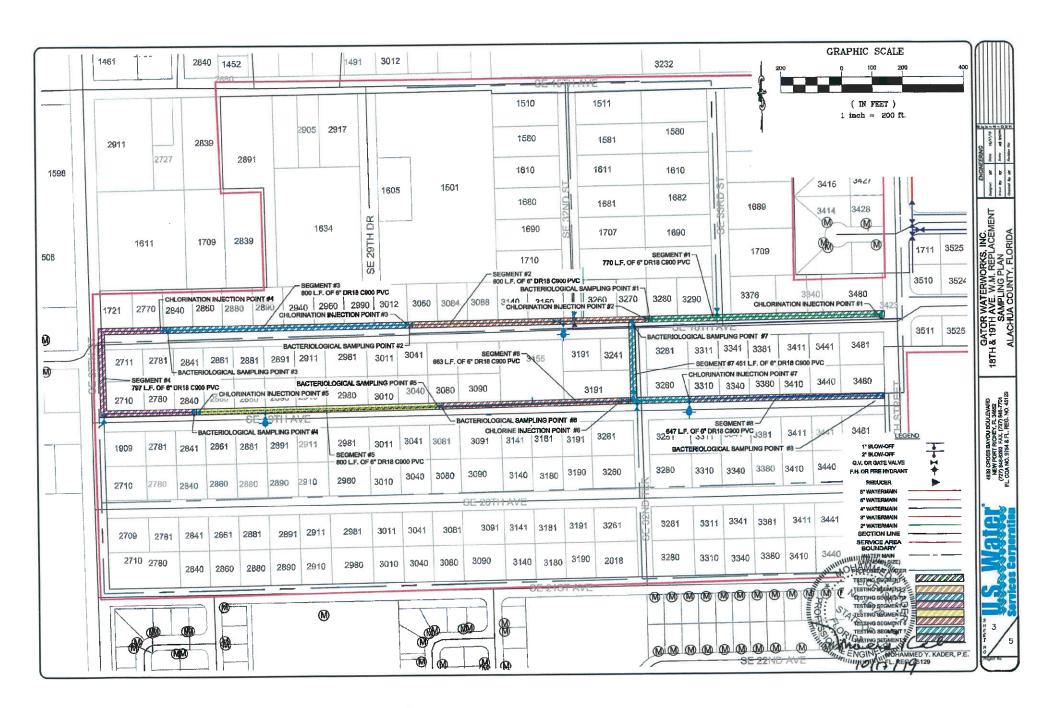
ENGINEERING PLANS

THE DRAWES AND THE DESIGN SHOULD ARE THE PROPERTY OF U.S. MATER SERVICES COOP, AND ARE NOT TO BE REPRODUCED,

MOHAMMEDY, KADER, P.E. FL. REG. 45129







2. Piping materali specifications covering pipes, jointing and Ploing material specifications covering pipes, joining and packing materials, internal coatings and limings, fittings, specials and appurtanences shall be in accordance with the corresponding AWWA Standards and be conforming to NSF requirements, as may be applicable, with exceptions allowed only if documentation and assurances are provided in compliance with Paragraphs 62-555.320(3)(d), 62-555.320(3)(b), and 62-555.320(21)(c), F.A.C. The lead use prohibithion in Rule 62-555.322, F.A.C., shall

also apply.

3. All onsite PVC potable water mains 4 inches to 12 inches shall be virgin polywhy chieride (PYC) pipe for potable water and shall have a bell type coupling with a thickened wall section integral with the pipe barrel in accordance with ASTM D3139, elastomeric seals shall meet ASTM F477 and shall be attached to the bell utilizing give (AWWA and manufacturer approved type) or rieber ring. The pipe shall be clean, virgin, National Sanitation Foundation No. 14 approved, Class 12454—A or 12454—B PVC compound conforming to ASTM resin specification D1784, Each length shall be clearly marked with the name of the manufacturer, location of the plant, pressure rating, nominal pipe diameter and length, and must conform to PVC 120, Class 150, DR 18 AWWA C900. 4. All PVC water mains less than 4 inches must be ASTM 1785

Schedule 80, or ASTM 2241 with NSF markings on each installed

5. All fittings larger than 3" shall be ductile iron pressure class 350 in accordance with AWWA C-110 with a pressure rating of 350 PSI. Joints shall be mechanical joints in accordance with AWWA C-111. Fittings shall be cament motor fined and coated in accordance with fittings AWWA C-104. All fittings shall be restrained using MEGALUG or approved equal.

6. All fittings 3" and smaller shall be schedule 80 PVC with solvent welded sleeve type joints.

7. Contractor to Install temporary blow offs at the end of the water main to assure adequate flushing and disinfecting.
8. Octop PVC Heavy Duty Gray Scivent Cement or equivalent shall

be used for all fittings below grade.

9. All water main pipe, including fittings, installed on or offer August 2003, except pipe installed under a construction permit for 28, 2003, except pipe installed under a constitution permit to the Department received a complete application before August 28, 2003, shall be color caded or marked using blue as a predominant color to differentiate drinking water from recisimed or other water.

Underground plastic pipe shall be solid—wall blue pipe, shall have a co-extruded blue external skin, or shall be white or black pipe with blue stripes incorporated into, or applied to, the pipe wall; and underground metal or concrete pipe shall have blue stripes applied to underground metro or concrete pipe sholl nove blue stripes applied to the pipe wid. Pipe striped during menufacturing of the pipe shall have continuous stripes that run parallel to the add of the pipe, that are located at no greater than 80-degree intervals around the pipe, and that will remain intact during and ofter installation of the pipe, if tape or point is used to stripe pipe during installation of the pipe. If tape or point is used to stripe pipe during installation of the pipe, the tape or point sholl be applied in a continuous line that the pipe. are tope on punit aron no expense in a contravous line that runs persists to the axis of the pipe and that is located along the top of the pipe; for pipes with an internal diameter of 24 inches or greater, tope or paths shall be opplied in continuous lines along each side of the pipe as well as doing the top of the pipe. Aboveground pipe at chinking water treatment plants shall be color coded and labeled in accordance with subsection 62-555.320(10), F.A.C., and all other aboveground pipe shall be painted blue or shall be color coded or

morked like underground pipe.

10. All PVC water mains shall have a suitable magnetic locator buried approximately one foot below grade over the force main. The tape shall be continuous between valves, and secured to each valve. The tape shall be at least 5 ½ miles thick, 2 inches minimum width and made of aluminum material sandwiched between 2 layers of polyethylene. It shall be imprinted in permanent black ink with 1 Inch letters, "CAUTION, WATER LINE BURIED BELOW", on blue background.

11. All water system components and materials that are to come into contact with the potable water shall meet or exceed the latest standards issued by the AWWA and ANSI/NSF requirements.

12. All proposed bas valves shall be Sch 80 true union valves. WATER PIPING (Continued)

13. All proposed treatment plant piping shall utilize piping color code to facilitate identification as follows:

Water Lines Raw or Recycled Olive Creen Settled or Clarified Agua Dark Blue Finished or Potable

Chemical Lines

Ammonia White Caustic Yellow with Green Band Chlorine (Gas or Solution) Yellow Sulfuric Acid Yellow with Red Band

TESTING AND INSPECTION REQUIREMENTS

1. All components of the water system, including fittings, hydrants, connections, and voives shall be properly pressure tested and accepted by the engineer. Cleaning, flushing and hydrostatic pressure testing is to be done in accordance with AWWA C605 for pressure testing is to be done in accordance with AWWA C605 for PVC pipe and fittings and AWWA C600 for Ductile Iron water mains and appurtenanaces. Contractor is to notify the engineer 48 hours

in advance of performing tests.

2. Contractor to perform chlorination and bacteriological sampling. Copies of all bacteriological test to be submitted to the engineer Locations of chlorination and sampling points to be submitted with test results along with as-built drawings.

3. The contractor shall perform hydrostatic testing of all water distribution system, as set farth in the following, and shall conduct sold tests in the presence of representative of the Engineer and/or the County in which said tests are performed, with two days' advance notice provided.

4. Testing shall not proceed until concrete thrust blocks are in place and cured or other restraining devices installed. AWWA C605

Prior to filling, testing, and disinfecting the installed line, the contractor shall ensure that the line is clean in conformance with ANSI/AWWA C651. To facilitate effective disinfection and minimize the chlorine dosage needed, when practicable, predisinfection the chrome usage necess, when produces a possession of the flushing should continue until the discharge turbidity drops below 5 ntu, using measurement procedures described in AWWA Monual M12. Sec. 7.2 Filling and Flushing Lines shall be filled slowly with potable water at a maximum

velocity of 1 ft/sec (0.3 m/sec) while venting cir. Precoutions shall be taken to prevent entrapping oir in the lines. After filling, lines shall be flushed at blowoffs and dead ends at a minimum velocity of 3 ft/sec (0.9 m/sec). A minimum of three changes of treated water shall be used in flushing operations. Valves shall be closed slowly to prevent excessive surges while maintaining positive pressure at all times throughout the new line. flushing water shall while maintaining positive be discharged without equaling erosion damage, nulsance, or interuption of traffic. Disposal of flushing water shall be in accordance with Sec. 4.1.1.2. A special pipeline pig may be required when the required flushing velocity connot be achieved or when needed to conserve water. The constructor shall make provisions for lauching and retrieving the pig.
Sec. 7.3 Hydrostatic Testing
Warning: Hydrostatic testing shall be conducted with water, or

other environmentally safe. Incompressible fluids, because of the inherent safety hazard potential associated with testing components and systems with compressed air or other compressed

90968. 7.3.1 General

The constructor shall provide measurement gauges and recording devices for the test, including pump, pips, connections, and other necessary apparatus, unless otherwise specified by the purchaser, and shall provide the necessary assistance to conduct the test. Prior to testing, the constructor shall place sufficient backfill to prevent pipe movement. When local conditions require that the trenches be backfilled immediately after the pipe has been laid, the testing may be carried out after backfilling has been completed but before placement of permanent surfacing. The constructor shall ensure that thrust-blacking or other types of restraining systems will provide adequate restraint prior to pressurizing the pipeline. Refer to AWWA C605, Sec. 5.8.4 for

7.3.2 Cross-connection control.

When existing water mains are used to supply test water, they should be protected from backflow contamination by temporarily installing a double check-valve assembly between the test and supply main or by other means approved by the purchaser. Prior to pressure and leakage testing, the temporary backflow pratection should be removed and the main under test isolated from the 7.3.3 Proceedure

Test shall be performed only after the pipeline has been properly filled, flushed, and purged of air. The specified test pressure shall he applied by means of an approved pumping assembly connected to the pipe in a manner satisfactory to the purchaser. The test pressure shall not exceed the design pressure of the pipe, fittings, valves, or thrust restraints. If necessary, the test pressure shall be maintained by additional pumping for the specified time. During tests, the system and exposed pipe, filtings, valves, and hydrants shall be carefully examined for leakage, visible leaks shall be stopped. Defective elements shall be repaired or removed and replaced and the test repeated until the test regularments have 7.3.4 Test duration

The duration of the hydrostatic test shall be two (2) hours. 7.3.5 Test pressure

The hydrostatic test pressure shall not be less than 1.25 times the maximum anticipated sustained working pressure at the highest point along the test section unless the pressure exceeds the design pressure limit for any pipe, thrust restraint, valve, fitting, or other appurtenance of the test section. Test allowance

The test allowance shall be defined as the quantity of water that must be supplied to the pipe section being tested to maintain a pressure within 5 pel (34 kPa) of the specified hydrostatic test pressure. No installation will be accepted if the quantity of makeup water is greater than that determined by the formula:

Q = (LD (P)) /148,000Where

pounds per square inch (gauge)

Q = quantity of makeup water, in gallons per hour

L = length of pipe section being tested, in feet D = nominal diameter of pipe, in inches P = average test pressure during the hydrostatic test. In

Additional Testing Notes:

1. The testing procedure shall include the continued application of the specified pressure to the test system for the two-hour period by way of a pump taking supply from a container suitable for measuring water loss. The amount of loss shall be determined by measuring the volume displaced to maintain system pressure. 2. Prior to placing the installed water line in service, the new pipe and exposed sections and appurtenances of existing pipelines shall be cleaned and disinfected in accordance with ANSI/AWWA C651. unless otherwise specified. Pipelines shall be flushed following the completion of disinfection proceedures. Disposal or neutralization of disinfection water shall comply with applicable regulations (refer to Appendix B of ANSI/AWWA C651).

7.3.5 Test pressure The hydrostatic test pressure shall not be less than 1.25 times the new rest pressure stor has been less than 1.20 sures the maximum anticipated austined working pressure at the highest point along the test section unless the pressure exceeds the design pressure limit for ony pipe, thrust restraint, valve, fitting, or other appurtenance of the test section. 7.3.6 Test allowance

The test allowance shall be defined as the quantity of water that must be supplied to the pipe section being tested to maintain a pressure within 5 psi (34 kPo) of the specified hydrostatic test pressure. No installation will be accepted if the quantity of makeup water is greater than that determined by the formula:

 $Q = (LD\sqrt{P}) /148.000$

Q = quantity of makeup water, in gallons per hour L = length of pipe section being tested, in feet
D = nominal diameter of pipe, in inches
P = average test pressure during the hydrostatic test, in

pounds per square inch (gauge)

Additional Testing Notes:

1. The testing procedure shall include the continued application of the specified pressure to the test system for the two-hour period by way of a pump taking supply from a container suitable for measuring water loss. The amount of loss shall be determined by measuring the volume displaced to maintain system pressure.

2. Prior to placing the installed water line in service, the new pipe and exposed seations and appurtenances of existing pipelines shall be cleaned and disinfected in accordance with ANSI/AWWA C851, unless otherwise specified. Pipelines shall be flushed following the completion of disinfection proceedures. Disposal or neutralization of disinfection water shall comply with applicable regulations (refer to Appendix B of ANSI/AWWA C651).

1. Rule 62-555.314(1)(a), F.A.C., requires new or relocated, underground water mains to be laid to provide a horizontal distance of at least three fast between the outside of the water main and the outside of any existing or proposed storm sewer, stormwater force main, or pipeline conveying recialmed water regulated under Part III of Chapter 62-610, F.A.C. Please provide assurance regarding the horizontal separation of the proposed yard

2. Rule 62-555.314(2)(a) & (b), F.A.C., have the following requirements: a. New or relocated, underground water mains crossing any existing or proposed gravity— or vacuum—type amiltary sewer or storm sewer shall be loked so the outside of the sorting sever or storm seven single perfected by 12 inches, above or at least 12 inches below the autside of the other pipeline. However, it is preferable to lay the water main above the other

b. New or relocated, underground water mains crossing any existing or proposed pressure-type sanitary sewer, wastewater or atornwater force main, or spieline conveying reclaimed water shall be laid so the cutside of the water main is at least 12 inches above or below the outside of the ather pipeline. However, it is preferable to lay the water main above the other pipeline. e contractor is responsible for notifying the Engineer of Record of any utility crossings found during construction to provide assurance regarding the vertical separation of the proposed yard

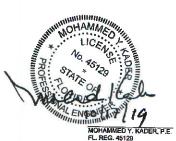
3. Rule 62-555.320(8)(b), F.A.C., requires that the raw water sampling tap be downward-opening, located at least 12 inches above the finished floor, and be located upstream of the check valve in the discharge piping. The Engineer of Record shall verify and confirm within the asbuilt drawings that these requirements

4. Section 3.2.7.3 in Recommended Standards for Water Works as incorporated into Rule 82-555.330, F.A.C., requires a pressure gauge be provided at the discharge piping from each well. The contractor shall provide confirmation in the form of shop drawings that this requirement will be met.

 Section 1.2.2 in Recommended Standards for Water Works as incorporated into Rule 62-555.330, F.A.C., requires that the pions show all appurtenances and sampling taps. The permitting plans provide the location of the gate values and raw water sample top on the discharge piping at each well, and provide the location of the entry point to distribution sampling tap.

6. Rule 62-555.520(4)(a)6.g., F.A.C., requires all public water provide the manufacture's details and specifications for the proposed check valve, gate valve, and flow meter to be installed at in the discharge piping for each well.

7. Section 7.2.4 in Recommended Standards for Water Works as Incorporated into Rule 62-555.330, F.A.C., requires hydropneumatic tanks be equipped with a pressure gauge, water sight glass, cultoractic or manual blow-off, and a means for adding dir. A pressure relief volve shall be installed and be capable of hundling the full pumpage rate of flow of the pressure vessel design limit. The contractor is to provide confirmation that each of these components will be provided for the tank.



1 5 3 RWORKS, INC. V.M. REPLACEMENT NOTES INTY, FLORIDA 믔> 꼰

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