

January 30, 2026

Topic: Water & Wastewater Standards Updates

Audience: Development Community

Meeting Format: Open to the Public

1. Standards Updates

JEA announced that the **2026 [Water and Wastewater Standards](#)** are now available on the JEA website. The center of the Standards page contains **Volumes 1–6**, including as-builts, standard Detail drawings, and manuals. All volumes reflect the **2026 standards**, updated and effective as of **December 31, 2025**.

To improve transparency in the Summary of Changes in applicable Volumes:

- **All additions** to the standards are shown in **red**
- **All removals** are shown using **strikethrough formatting**

2. Summary of Changes by Volume

[Volume I – Water and Wastewater Standards](#)

Key updates include:

- **Standard 495 (Variable Frequency Drives):** Section II.2, Rating II.2.3 Clarified Water Treatment Plants, Raw Water Wells, and Reclaim water are not considered corrosive environments.
- **Standard 501:** Added requirements all drawings submitted as one continuous pdf with different utilities separated into different pages/sections. Call out required for pipe material and/or pressure class.
- **Standard 350 (Potable Water Piping):** Removed fusible PVC.
- **Section 351 (Meters, Valves, and Hydrants):** Clarified traffic rating for large meter boxes.
- **Standard 427 (Wastewater Collection Specifications):**
 - Removed Section II.1.3 Design loading requirements for polymer concrete manholes
 - Added joint sealant size and application per sealant manufacturer for precast polymer and concrete wastewater manholes.
 - Added excess joint sealant shall be trimmed flush on outside surfaces of manhole.
- **Standard 428 (Gravity Sewers):**
 - Added a new Quality Assurance section for CCTV inspections
 - Clarified requirements for color video monitors and documentation
- **Standard 429 (Wastewater Force Mains):**
 - Removed fusible PVC
- **Standard 430 (Wastewater Valves and Appurtenances)**
 - V.1.1 Changed to 316 stainless steel for tapping sleeves
 - V.3.4 Air Release Valves (ARV) Clarified short-body vs. long-body configurations
 - V.3.5 Manholes larger than 16 inches require Engineer of Record approval
- **Standard 433: (Submersible Wastewater Pumping Stations)**
 - I.9 Smart meters monitor line power

- VIII.6 Added joint sealant size and application is per sealant manufacturer for precast polymer and concrete wet well sections.
- VIII.8 Added joint sealant membrane tape centered on joint.
- **Standard 466: (Specialty Coatings and Linings):** Clarified manhole application table
- **Standard 470: (Engine Driven Emergency Pump Section)**
 - IV.2 Engine Controls – Digital controller updates and removed pony pump distributed I/O input
- **Section 750: (Small Pipe Horizontal Directional Drilling)** Removed fusible PVC.

Volume II – Distribution & Collection Details

Updates include revisions to standard detail drawings, such as:

- Flushing valves below grade
- Copolymer water meter boxes
- Copolymer manhole plates
- Concrete stormwater conflict manholes
- Air release valve details were removed
- Minor spelling correction in pump station-specific details
- Significant updates to pump station construction detail
- Minor update to pump station shop drawing

Volume V – Water Treatment Plant Specifications

- **Section V: High Service Pumps** Stainless steel or nickel bronze alloy preferred
- **Section VI: Disinfection System**
 - VIII. Chemical storage tank specifications were removed.
 - VIII. Retained requirements focus on tank orientation, access points, penetration levels, and instrumentation
 - X. Minor updates to sodium hypochlorite metering pump skids
 - XI. Added piping and associated equipment requirements

Volume 5A – Water Treatment Plant Details

- Minor changes in Exhibits 3-1, 6-1A, 6-3, and 6-5.

Volume VI – Water Reclamation Facility Specifications

- Section IV Standard Specifications – contact WaterWastewater@jea.com for project specific requirements.
- Section II.7 Hydraulic Profile
 - Smart relays in lieu of a PLC not allowed
 - Profinet networks as default connection removed.

Controls

- Added appendices covering:
 - Multi-monitor configurations (Appendix 2)
 - Custom subroutines (Appendix 3)

3. Questions

- **Application of Standards:** Projects follow the standards approved at the time of application; future projects must comply with newly adopted standards.
- **Coatings vs. Specialty Liners:** Legacy terminology inconsistencies in Standard 446 will be clarified in future updates.
- **Fusible PVC:** Fusible PVC was removed due to insufficient documentation regarding heating, cooling, and fusion times, making inspection and verification difficult. Per manufacturer and JEA experience, fused PVC pipe can split through a joint. Given this risk, along with the inability to confirm installation compliance with applicable Standards, Fusible PVC is not approved for use within JEA systems at this time.

4. Comments

- Suggested public GIS access for water/sewer/reclaimed systems.
Response: Public GIS access to system-level data will not be provided. However, project-level GIS maps for design can be requested, as well as as-built drawings. One-on-one meetings are also available upon request.
- Concern about increased JEA Pump Station cost (over \$700,000 in some cases) and limited suppliers.
Response: JEA acknowledged the concern and committed to further review. Stakeholders were encouraged to identify specific cost-driving changes so JEA can evaluate alternatives. Follow-up discussions were offered to better understand supplier limitations and cost impacts. Changes to the 2025 Water and Wastewater Standards have resulted in the following savings:
 - Decrease the hold time for gravity sewer to eliminate the need for pony pumps and generators at Class 1 pump stations. This Design Guideline change savings is estimated at \$70,000 - \$250,000.
 - Pump station flow meters – Alignment with FDEP standards to only require a magnetic inline or strap-on ultrasonic flow meter for pump stations exceeding a design rate of 350 GPM. This eliminated I/O panels, conduit, above ground stainless steel piping, ARV, and ARV discharge back into wetwell. Standards change cost savings estimated at \$20,000 - \$30,000.
 - Stainless Steel VFD Cabinet Enclosures – No longer require panel enclosures above a certain dimension to be manufactured from stainless steel. Instead, these enclosures can be manufactured out of less expensive aluminum. Standards change cost savings estimated at \$10,000.

- Greenleaf Solar Gauge – The fuel tank communication unit on a pony (or generator) already communicates with the engine controller to shut the engine down in the event of low fuel to prevent damage to the engine. Currently, the interstitial fuel leak sensor is now being brought into the controller as an external analog input and all the fuel and/or leak data is now communicated directly to SCADA via the gateway. The pony pump manufacturers state this is roughly a \$5,000 savings.
 - Reported communication gaps with field requests and field crews and limited visibility into work status through SAGES.
Response: JEA confirmed that a Field Management System (FMS) upgrade is underway. Once implemented, ticket completions will automatically trigger email notifications to applicants, improving transparency for meter installations and service requests submitted through SAGES.
 - Concern that without GIS data publicly available, the customer can't see where there are different connection points they would rather use. Asked about GIS data availability by location and phase.
Response: The presence of nearby infrastructure does not confirm that project requirements can be met. Availability letters identify the designated point of connection that will provide service for the proposed project. GIS maps and as-builts are also available upon request.
-
- **Please note:** JEA will be introducing the Development Tracker, which will map development projects following plan submission and update their status as they advance through the six established phases: Design Under Review, Design Approved, Permit Approved, Pre-Construction Meeting Completed, As-Built Approved, and Project Accepted/Under Warranty.
-

5. Conclusion & Next Steps

- **Monthly public standards meetings:** Plan is last Thursday of month, 9:00–10:30 AM, on the first floor at JEA HQ. Meeting will be advertised on jea.com and on SagesGov.
- **Developer Workshop:** Next date TBD (last held Dec 5); feedback requested on timing.
- **JEA seeks cost-related feedback to understand financial impacts.**

WATER AND WASTEWATER STANDARDS PAGE NAVIGATION

https://www.jea.com/Engineering_and_Construction/Water_and_Wastewater_Standards/

Storm Center Outage Center Meetings & Events Careers Contact Sign In

Account Options Customer Resources Business Resources Environment **Engineering and Construction** Procurement About

Call Before You Dig
Community-Initiated Projects
Electric Development

Electric Reference Materials
Five Year Capital Expenditures
JEA Facilities Standards

Meter Search
Neighborhood Construction
SagesGov

Service Availability Form
Water and Wastewater Development
Water and Wastewater Standards

ENGINEERING AND CONSTRUCTION

Electric Development >

Electric Reference Materials >

Water and Wastewater Development >

Service Availability Form

Meter Search

JEA Facilities Standards

Community-Initiated Projects

SagesGov

Request an As-Built Drawing

Water and Wastewater Standards

Five Year Capital Expenditures

Call Before You Dig

Supply Chain Resource Hub

Home > Engineering and Construction

Engineering and Construction

Developing Northeast Florida is your job. Ours is to help you get the utility services you need to plan for, build and then finish an engineering or construction project.

You will find quick access to information for new development projects within JEA's service territory in this section. Builders, electricians, plumbers and anyone with a need to know can access electrical permitting information as well as water and sewer service related information.

- 2025 Developers Workshop Presentation +
- 2023 Developers Workshop Videos +
- Community-Initiated Projects +
- Procurement +

Supply Chain Resource Hub

JEA is taking a proactive approach to meet ongoing supply chain challenges and taking steps to meet local development needs.
[Visit our Supply Chain Resource Hub](#)

RELATED LINKS

[Qualification Requirements](#)
All JEA contractors and their subcontractors that perform safety-sensitive...

Home > Engineering and Construction > **Water and Wastewater Standards**

Water and Wastewater Standards

JEA Water and Wastewater Standards is responsible for approval of materials and the design standards used in the construction of its water and wastewater infrastructure. Direct questions to waterwastewater@jea.com.

PLEASE NOTE: The documents on this page are updated annually. Please reference the "Summary of Major Changes" at the beginning of each standards manual to view any recent changes.

[How Do I Get My Product Approved?](#)
Manufacturer Product Approval(.pdf)
Manufacturer Product Resolution(.pdf)

Our Current Standards Documents

Water and Wastewater Standard Manuals - Volumes I-VI

- Volume 1: Water and Wastewater Standards 2026 (.pdf)
- Volume 2: Water and Wastewater Distribution and Collection Details 2026 (.pdf)
- Volume 3: Water and Wastewater Approved Materials 2026 (.pdf)
- Volume 5: Water Treatment Plant Standards Manual 2026 (.pdf)
- Volume 5A: WTP Standard Details 2026 (.pdf)
- Volume 6: WRF Standards Manual 2026 (.pdf)
- Volume 6A: WRF Standards Details 2026 (.pdf)
- Controls Appendix A JEA iFIX SCADA Standards 2026 (.pdf)
- Controls Appendix B JEA Programming Standards 2026 (.pdf)