

JEA Water and Wastewater Standards

Summary of Major Changes

2022 Manual Summary of Major Changes

Highlighted sections are additions, strikethroughs are deletions

Effective 3/1/21

1) 433 - SUBMERSIBLE WASTEWATER PUMPING STATIONS

1.9.7 ELECTRICAL CONTROL BUILDING

For stations with **more than 3** ~~or more~~ pumps, and/or with motors larger than 75 HP and/or have a full load amperage of greater than ~~or equal to~~ 400 amps, an electric power and control building shall be provided in accordance with Prefabricated Concrete Enclosure standards in this section. Control building required if any of the below conditions exists:

- Pumps larger than 75 hp
- Station FLA > 400 amps
- Station has > 3 pumps

2) 501 – AS BUILT DRAWINGS

IV.6. METERS AND METER BOXES

IV.6.1. Each meter box shall be shown on the as-built drawings. **The size meter to be installed in the meter box shall also be indicated adjacent to the meter box or meter box notes.** Horizontal dimensioning on the as-built is not required if meter box is located as per standards and is in a residential subdivision.

IV.6.2. Each meter box shall be designated in a meter box table, inserted in a conspicuous location within the As-Built, with the following data. Minimum font on as-built data tables shall be 8 pts. Provide a separate meter box table for water and reclaimed water meter boxes.

- Meter Box Number
- **Proposed meter size to be installed by JEA**

IV.10. DATA TABLE EXAMPLES

Sample Water Meter Box Table:

Meter Type & Lot Number	Service Type	Proposed Meter Size
WM1	Water	1 ½"
WM2	Water	1 ½"

JEA Water and Wastewater Standards

Summary of Major Changes

Sample Reclaimed Meter Box Table:

Meter Type & Lot Number	Service Type	Proposed Meter Size
RM1	Reclaimed	1 ½"
RM2	Reclaimed	1 ½"
RM3	Reclaimed	1 ½"

V.3. JEA AS-BUILT OR RECORD DRAWING SUBMITTAL REQUIREMENTS CHECK LIST PIPELINES AND PUMPING STATIONS

WATER METERS AND METER BOXES

Each meter box shall be listed in the data table with meter number matching the Lot #. If no Lot # exists, assign a water meter ID not included in the Lot # series. Show this meter ID at the meter on the as-built and in the data table.

Location of meter boxes indicated and referenced to property lines (not necessary for 2 inch or less residential meters located as per standards).

The size meter to be installed for each meter

Table included with data for each water meter box:

- Meter Box Number
- Proposed Meter Size
- Service Type (Water or Reclaimed Water)
- Meter Subtype = Minor Meter (<2"), Major Meter
- Facility Owner (JEA or PRIVATE)
- Meter box manufacturer
- Meter Box Material
- State Plane Northing, X Coord
- State Plane Easting, Y Coord
- Latitude
- Longitude

RECLAIMED WATER METER BOXES

Each meter box shall be listed in the data table with meter number matching the Lot #. If no Lot # exists, assign a reclaimed water meter ID not included in the Lot # series. Show this meter ID at the meter on the as-built and in the data table.

The size meter to be installed for each meter

Table included with data for each meter box:

- Meter Box Number
- Proposed Meter Size

JEA Water and Wastewater Standards

Summary of Major Changes

- Service Type (Water or Reclaimed Water)
- Meter Subtype = Minor Meter (<2"), Major Meter
- Facility Owner (JEA or PRIVATE)
- Meter box manufacturer
- Meter Box Material
- State Plane Northing, X Coord
- State Plane Easting, Y Coord
- Latitude
- Longitude

3) PUMP STATION DETAILS---DRIVEWAY AND SITE SLOPE

CONSTRUCTION NOTES:

1. SLOPE SITE CONCRETE 1" PER 8' TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY. THE DRIVEWAY SLOPE SHALL BE LESS THEN 6% UNLESS SPECIFICALLY APPROVED BY JEA.
2. CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
3. DEMARCATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WET WELL. IT SHALL BE PLACED AT LEAST 3' FROM WET WELL HATCH AND AT LEAST 5' FROM VENTS. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WET WELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WET WELL.
4. SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE GROUNDING DETAIL SHEET).

JEA Water and Wastewater Standards Summary of Major Changes

4) WATER TREATMENT PLANT APPROVED MATERIALS--NEW APPROVED VFD MANUFACTURERS

WT-501: ELECTRICAL EQUIPMENT



DESCRIPTION:

EQUIPMENT	TYPES or ADD-ONS	MANUFACTURERS/MODEL
MCC		* Eaton * Schneider Electric * Siemens
VFD		* Siemens G120X * Danfoss Aqua Drive * ABB ACQ580 * Schneider Altivar Process ATV630 * Toshiba VF-AS3
Power Monitoring Equipment – Remote Applications		* Siemens PAC3200
Power Monitoring Equipment – Local Applications		* Siemens PAC4200 as provided by Switchgear manufacturer
Power Generators		JEA Contract Supplier
Automatic Transfer Switch		* ASCO 7000 Series
Switchgear		JEA Contract Supplier
Soft Starters		* Eaton S811+ * Siemens 3rw55

5) HUBER SCREENS REMOVED FROM WWTP APPROVED MATERIALS

JEA Water and Wastewater Standards Summary of Major Changes

6) CORRECTED FLEXIM FLOW METER MODEL NUMBER

WWT-1302: ULTRASONIC FLOW METERS



DESCRIPTION: Instrument attached to the outside of a pipe with no moving parts designed to measure the flow of a liquid through a pipe.

SIZE	MANUFACTURER	MODEL #
	Flexim Americas	F721

7) ADDED ABB MMC'S TO APPROVED LIST OF MANUFACTURES

ELECTRICAL, CONTROL PANEL, VFD & SCADA

WWT-201: ELECTRICAL CONTROL PANEL AND MCC



DESCRIPTION:

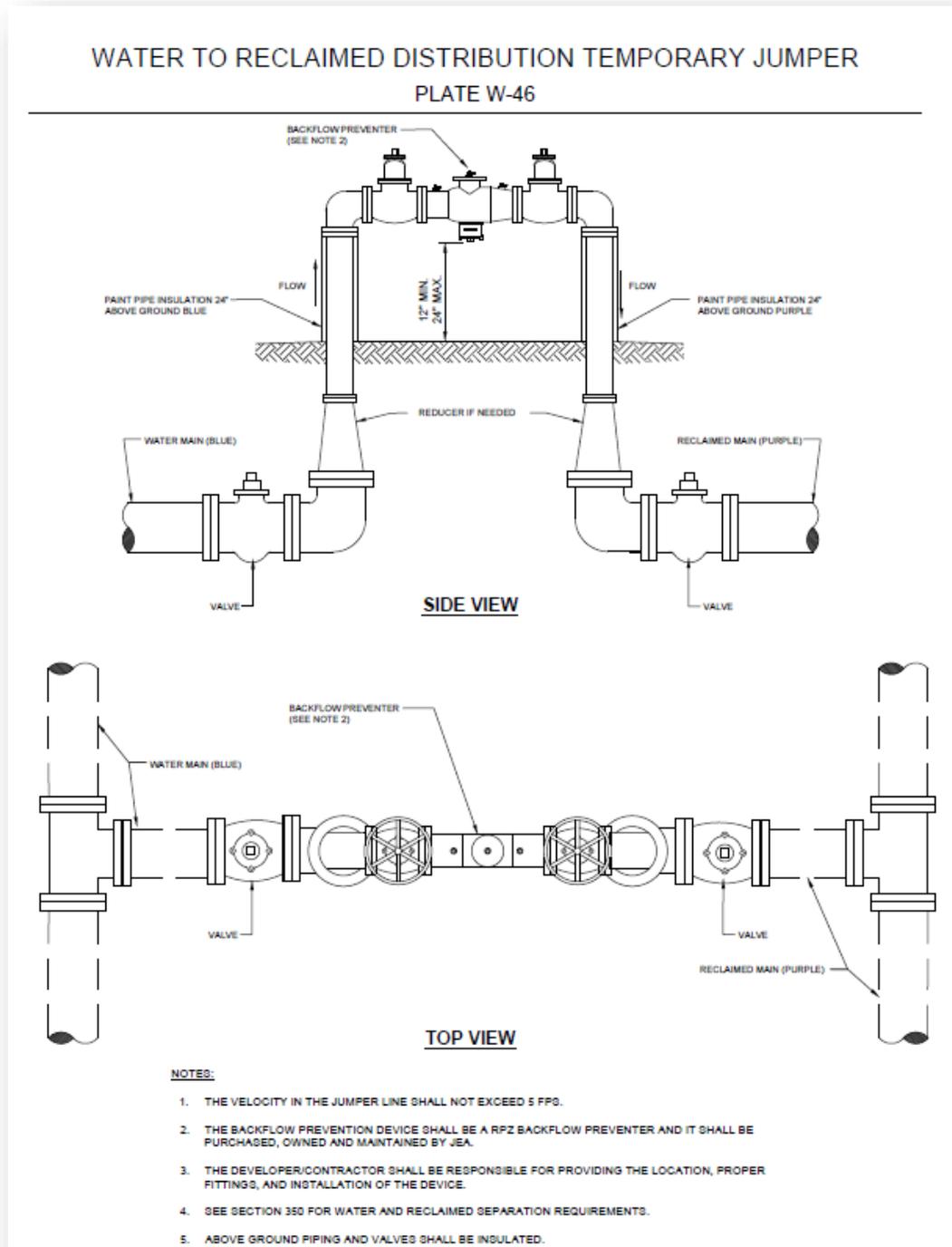
COMPANY NAME	CONTACT	PHONE	EMAIL
ECS	Ralph Sinn	(904)367-5000	ralph@ecs31.com
EG Controls, Inc.	Lucie Navratilova	(904)292-0110	EGSales@egcontrols.com
Suncoast	Mark Owens	(904)693-3318	mowens@suncoastcontrols.biz
Sun State System, Inc.	Tony Rhodes	(904)269-2544	trhodes@sunstatesystems.com
DSI Innovations LLC.	Sean Patterson	(336)893.8385	spatterson@dsiinnovations.com
Information Technologies Group (ITG)	James Ruiz	(904)425-4760	jruiz@itatec.com

MCC	Draw out breakers required	<ul style="list-style-type: none"> * Eaton * Schneider Electric * Siemens * ABB
-----	----------------------------	---

JEA Water and Wastewater Standards Summary of Major Changes

Effective 5/1/21

8) NEW DETAIL W-46: FOR WATER TO RECLAIMED DISTRIBUTION TEMPORARY JUMPER



*JEA Water and Wastewater Standards
Summary of Major Changes*