GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION NO. "RECLAIMED WATER DELIVERY STATION" IN JEA WATER AND SEWER STANDARDS MANUAL.

2. PRECAST STRUCTURE SHALL MEET A.S.T.M. C-478 STANDARD WITH 4,000 LB. CONCRETE TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COAT WITH BITUMINOUS WATERPROOFING MATERIAL.

3. ALL PRECAST STRUCTURE JOINTS BELOW THE TOP SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER)

4. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT MIN) AND BACK FILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT MIN) AND BACK FILL WITH GRANULAR BACK FILL (57 STONE).

5. PIPING ABOVE GROUND SHALL BE 316 S.S. AND PIPING BELOW GROUND SHALL BE C-900 DR-25 OR DR-18. FITTING SHALL BE DUCTILE IRON.

6. A FLANGED SPOOL PIECE WITH A MINIMUM LENGTH OF FIVE PIPE DIAMETER SHALL BE INSTALLED ENTERING THE FLOW METER AND A FLANGED SPOOL PIECE WITH A MINIMUM LENGTH OF THREE PIPE DIAMETERS SHALL BE INSTALLED EXITING THE FLOW METER AND A FLANGED SPOOL PIECE WITH A MINIMUM LENGTH OF THREE PIPE DIAMETERS SHALL BE INSTALLED EXITING THE CONTROL VALVE.

7. FLOW METER, CONTROL VALVE, ORIFICE PLATE AND CONTROL PANEL TO BE PURCHASED FROM JEA APPROVED VENDOR.

8. DIMENSION "L" TO BE DESIGNED BY ENGINEER.

9. JEA TO FURNISH AND INSTALL MAST, ANTENNA AND PRESSURE TRANSDUCERS.

10. SUBMIT SHOP DRAWINGS FOR CONTROL PANEL, LAKE LEVEL BOX AND CONTROL VALVE.

11. SUBMIT RECORD DRAWINGS SHOWING FINISHED ELEVATIONS, COORDINATES OF CORNERS OF STRUCTURES, AND COORDINATES OF EASEMENT.

12. ALL REQUIREMENTS OF JEA "RULES AND REGULATIONS FOR WATER, SEWER AND RECLAIMED WATER SERVICES", LATEST EDITIONS, INCLUDING TAGGING, LABELS, SIGNAGE, PAINTING OF EXPOSED PIPING PANTONE PURPLE NO. 522, ETC. SHALL BE COMPLETED BEFORE DELIVERY STATION IS ACCEPTED.

13. PLACE GEOTEXTILE FABRIC AND SAND CEMENT BAGS OVER MAINTENANCE BERM. SIDE SLOPE OF BERM SHALL NOT BE LESS THAN 2:1. EXTEND BAGS TO TOP OF BERM AND 2-Feet BEYOND POINT WHERE SIDE OF BERM MEETS EXISTING GROUND.

14. TYPE "C" PRECAST INLET BOX SHALL BE FURNISHED WITH AN ENVIRONMENT COMPOSITE, INC. MODEL, 40" WIDE X 18" DEEP X 18" TALL, FITTED WITH A 4" DEEP FIBERGLASS GRATE, 32 LB MAX., IN LIEU OF A C.I. STORM GRATE (USE JEA APPROVED PRECASTERS).

15. CONTROL FLOATS SHALL BE SJE RHOMBUS SIGNALMASTER CONTROL SWITCH, 40' CORD LENGTH, MIN. TWO FLOATS SHALL BE NORMALLY CLOSED TYPE, AND ONE SHALL BE NORMALLY OPEN TYPE.
1. REFER TO "REUSE STATION CONTROLS SPECIFICATION" FOR FURTHER DETAILS THAT MUST BE ADHERED TO.
2. THIS DRAWING IS AN EXAMPLE OF HOW OVERALL CABINET IS TO BE DESIGNED.
3. REFER TO NOTES AND DETAILS ON ALL DRAWING SHEETS.
4. ALL CONDUIT SHALL BE 3/4 INCH MINIMUM THAT IS STAINLESS STEEL.
5. ALL MOUNTING SCREWS SHALL BE STAINLESS STEEL.
6. 1/4-20 MACHINE SCREWS ARE TO BE USED WHERE MOUNTING HARDWARE IS APPLIED.
7. 7/16"-14 MACHINE SCREWS ARE TO BE USED FOR MOUNTING HARDS.
8. ELECTRICAL SCHEMATIC WIRING DIAGRAMS AND DEVICES ARE TO REFLECT PRECISE LOCATION WITHIN ENCLOSURE.
9. ALL ELECTRICAL WIRING AND MOUNTED DEVICES ARE TO BE IDENTIFIED AND MARKED.
10. 120 VAC AND 24 VDC VOLTAGE ARE TO BE SHOWN ON FRONT PANEL.

GENERAL NOTES:

FRONT PANEL VIEW

BACK PANEL LAYOUT

120 VAC VOLTAGE

24 VDC VOLTAGE

DRAWN BY: [DRAWER]
DATE: [DATE]
SCALE: [SCALE]
1. ALL PLC I/O WIRING SHALL BE #18 AWG.

**RS-232 Interface**

### PLC LAYOUT & CONNECTION

#### TERMINAL BLOCK LAYOUT

#### PLC INPUT - OUTPUT

**JEA STANDARD**

**RJ-45 PIN OUT**

- RXD+ -> Input
- TXD- - > Output
- TXD+ - > Output
- RXD - Input
- DCD - Input
- RTS - Output
- RTS - Output
- TXD - Output
- RS-232 PIN OUT

**RS-232**

- RxD
- Transmit

**RS-232 Interface**

- RTS
- DSR
- CTS
- GND
- DC Common

**RS-232 Interface**

- L+ (Male)
- Male

**RS-232 Interface**

- V

**RS-232 Interface**

- N

---

**PLC INPUT - OUTPUT TERMINAL BLOCK LAYOUT**

**CHECKED BY**: [Redacted]

**DATE**: [Redacted]

**DRAWN BY**: [Redacted]

**DESIGNER**: [Redacted]

---

**PLC LAYOUT & CONNECTION**

**PROJ. NO.**: [Redacted]

**NO. SHEETS**: [Redacted]

**DRAWING NO.**: [Redacted]

---

**3M = DC COM**

**40**

**40**

**20 (M)**

**38**

**38**

**19**

**19**

**20**

**20**

**20 (M)**

**35**

**Output 1.2**

**M +**

**34**

**Output 1.1**

**S -**

**33**

**Output 1.0**

**I +**

**32**

**Output 0.7**

**M -**

**29**

**Output 0.6**

**2L+ = +24V**

**31**

**Output 0.5**

**U + = > CH5**

**26**

**Output 0.4**

**25**

**Output 0.3**

**24**

**Output 0.2**

**23**

**Output 0.1**

**22**

**Output 0.0**

**21**

**Input 1.7**

**18**

**Input 1.6**

**17**

**Input 1.5**

**16**

**Input 1.4**

**15**

**Input 1.3**

**14**

**Input 1.2**

**13**

**Input 1.1**

**12**

**Input 1.0**

**11**

**Input 0.7**

**10**

**Input 0.6**

**9**

**Input 0.5**

**8**

**Input 0.4**

**7**

**Input 0.3**

**6**

**Input 0.2**

**5**

**Input 0.1**

**4**

**Input 0.0**

**3**

**Input 0.7**

**2**

**Input 0.6**

**1**

**Input 0.5**

**0**

**Input 0.4**

**-**

**-**

---

**FLOW METER PROFIBUS**

**PROFIBUS TERMINATOR RESISTOR**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

**FLOW METER PROFIBUS**

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**16 Digital Input - 16 Relay Output**

**8 Input Analog**

---
1. JEA TO FURNISH POLE MOUNTED SERVICE TRANSFORMERS. CONTRACTOR TO PROVIDE DIRECT BURIAL CONDUIT WITH CONDUCTORS FROM CONTROL PANEL TO SERVICE BOX. CONTRACTOR SHALL PROVIDE THE APPROPRIATE MAIN BREAKER AND ANY ACCESSORY EQUIPMENT (TVSS, ETC) NECESSARY TO COMPLETE THE SERVICE INSTALLATION AS REQUIRED BY CODE. UTILIZING A 2 WIRE ELECTRIC SERVICE, PROVIDE A MINIMUM OF 4" COVER FOR CONDUIT AND CONTACT JEA FOR INSTRUCTION IN PLOLD BEFORE BACKFILLING TRENCH.

2. PROVIDE SERVICE ENTRANCE RATED MAIN BREAKER WITH TVSS.

3. PROVIDE (4) 20A-1 POLE CIRCUIT BREAKERS. (2-SPARE)

4. COORDINATE CIRCUIT BREAKER INTERRUPT RATINGS WITH UTILITY BEFORE INSTALLATION.

5. ALL CONDUIT RUNS SHALL BE WITHIN OR BENEATH THE SLAB.

6. CONTRACTOR SHALL INSTALL ALL JEA PROVIDED INSTRUMENTATION/EQUIPMENT IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED INSTALLATION DOCUMENTATION IS STORED FOR JEA FOR ALL INSTRUMENTS/EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR ALL BURIAL INSTALLATION AND TESTING OF ALL INSTALLED INSTRUMENTATION/EQUIPMENT.

7. PROVIDE SCHEDULE 80 PVC CONDUIT BELOW AND ABOVE THE SLAB. CONTRACTOR SHALL PROVIDE METER SOCKET, PEDESTAL, AND WIRING PER JEA REGULATIONS. COORDINATE WITH JEA FOR LOCATION.

8. PROVIDE GROUND WELLS WITH TRAFFIC-RATED ENCLOSURES AND LIDS LABELED "GROUNDING".

9. CONTRACTOR SHALL PROVIDE ALL Wiring REQUIRED TO CONNECT OWNER-FURNISHED INSTRUMENTS. CONTRACTOR SHALL VERIFY WIRING REQUIREMENTS WITH THE OWNER’S INSTRUMENT SUPPLIER.

NOTES:

1. PROVIDE SERVICE ENTRANCE RATED MAIN BREAKER WITH TVSS.

2. PROVIDE (4) 20A-1 POLE CIRCUIT BREAKERS. (2-SPARE)

3. COORDINATE CIRCUIT BREAKER INTERRUPT RATINGS WITH UTILITY BEFORE INSTALLATION.

---

JEA STANDARD

RECLAIMED WATER DELIVERY STATION DETAILS

GROUNDING PLAN

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**CONTROL CONDUIT SCHEDULE**

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>SIZE</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1&quot; PVC</td>
<td>PANEL TO CONTROL VALVE</td>
</tr>
<tr>
<td>1</td>
<td>1&quot; PVC</td>
<td>PANEL TO FLOW METER</td>
</tr>
<tr>
<td>1</td>
<td>1&quot; PVC</td>
<td>JUNCTION BOX TO TYPE &quot;C&quot; LAKE INLET BOX</td>
</tr>
<tr>
<td>1</td>
<td>1&quot; PVC</td>
<td>PANEL TO ANTENNA MAINT</td>
</tr>
<tr>
<td>1</td>
<td>2&quot; PVC</td>
<td>JUNCTION BOX TO SERVICE TRANSFORMER</td>
</tr>
<tr>
<td>1</td>
<td>2&quot; PVC</td>
<td>PANEL TO JUNCTION BOX</td>
</tr>
<tr>
<td>1</td>
<td>2&quot; PVC</td>
<td>JUNCTION BOX TO SERVICE TRANSFORMER</td>
</tr>
</tbody>
</table>

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**ONE LINE DIAGRAM**

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**WELL AND GROUNDING PLAN**