# JEA Water & Wastewater Standards Manual

Volume VA: Water Treatment Plant Details

January 1, 2024 - Edition

"Foundation for the Future - Water & Wastewater Standards"

## JEA Water and Wastewater Standards Distribution and Collection Details

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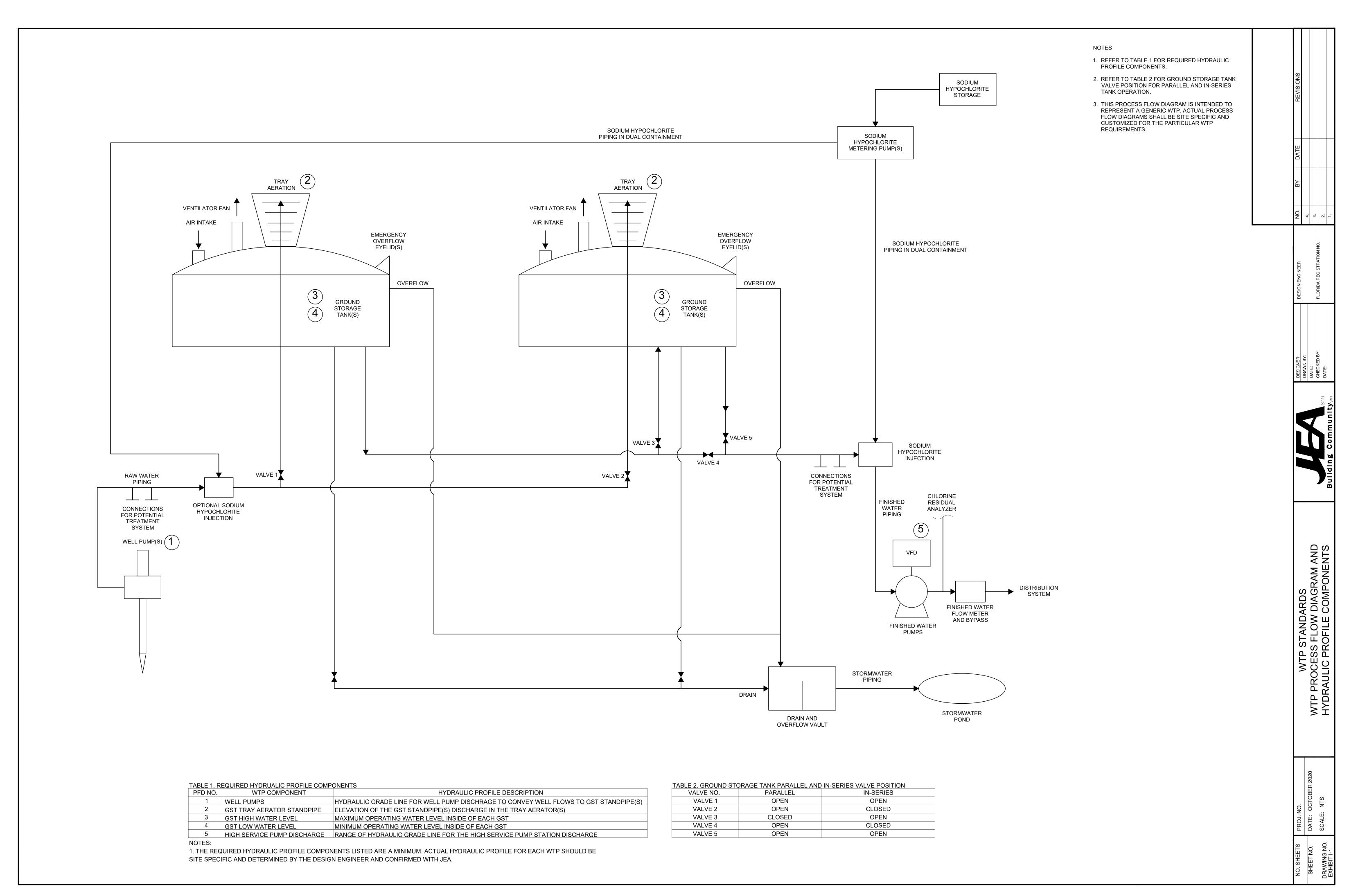
#### WATER TREATMENT PLANT

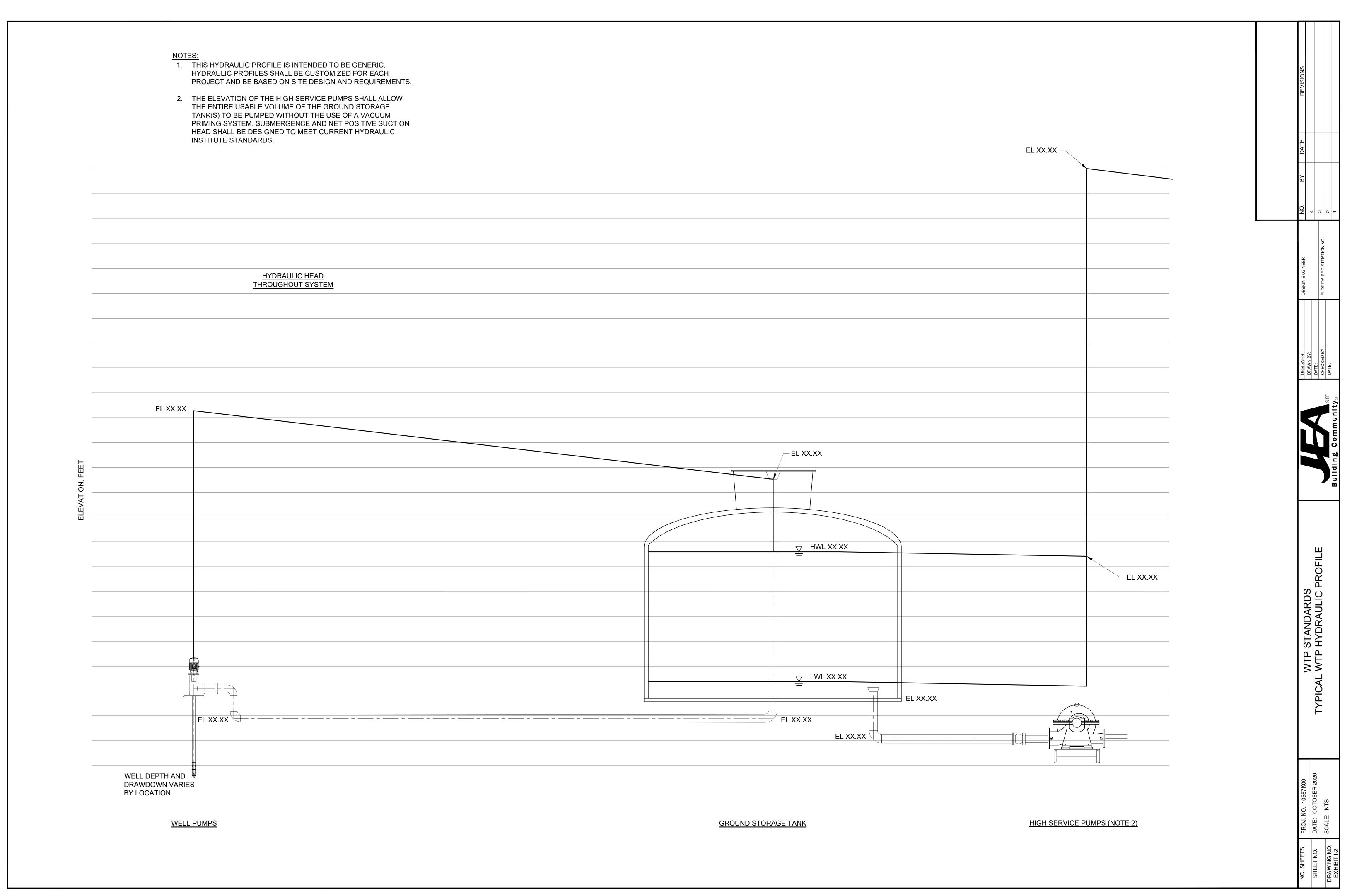
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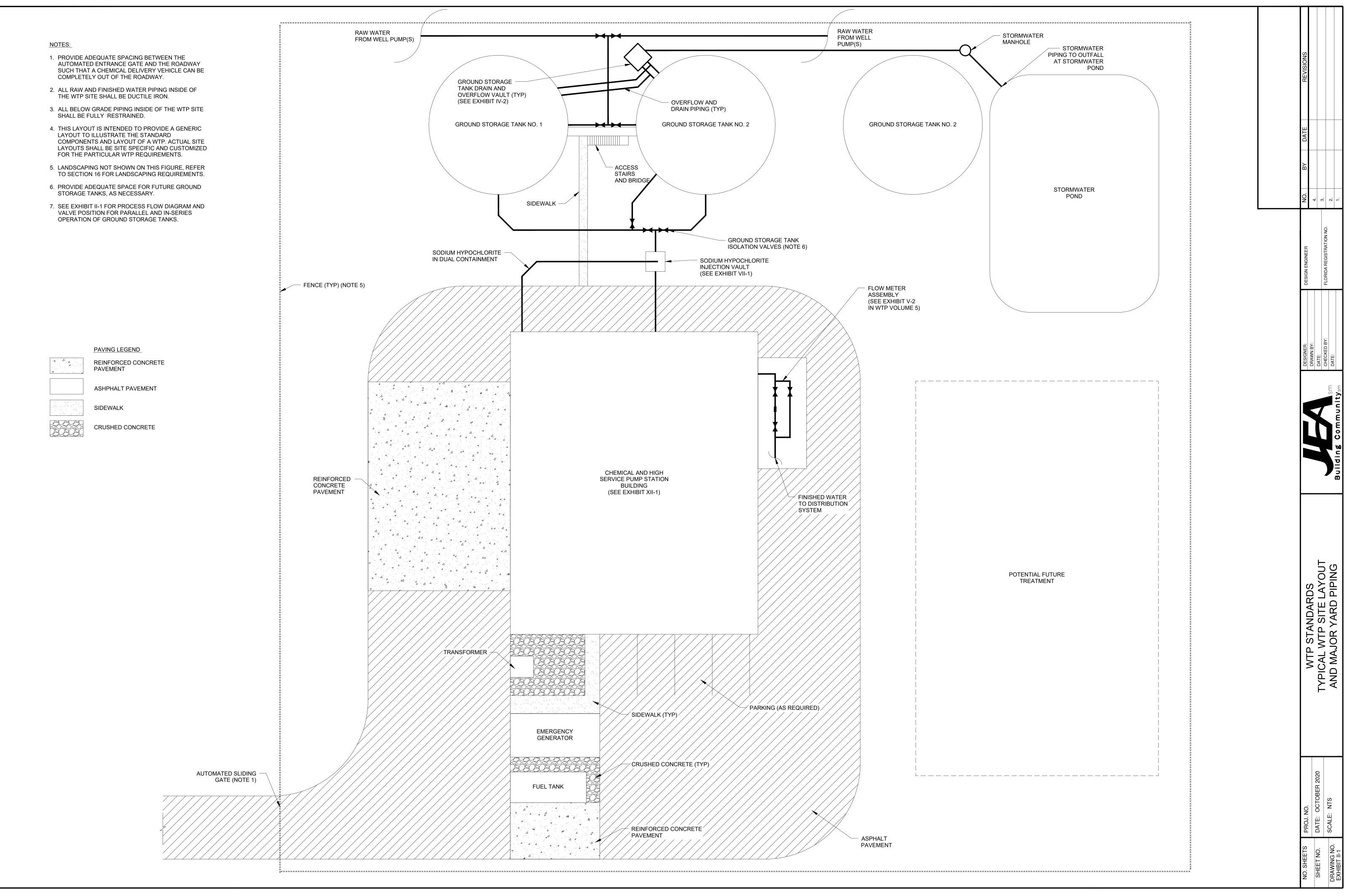
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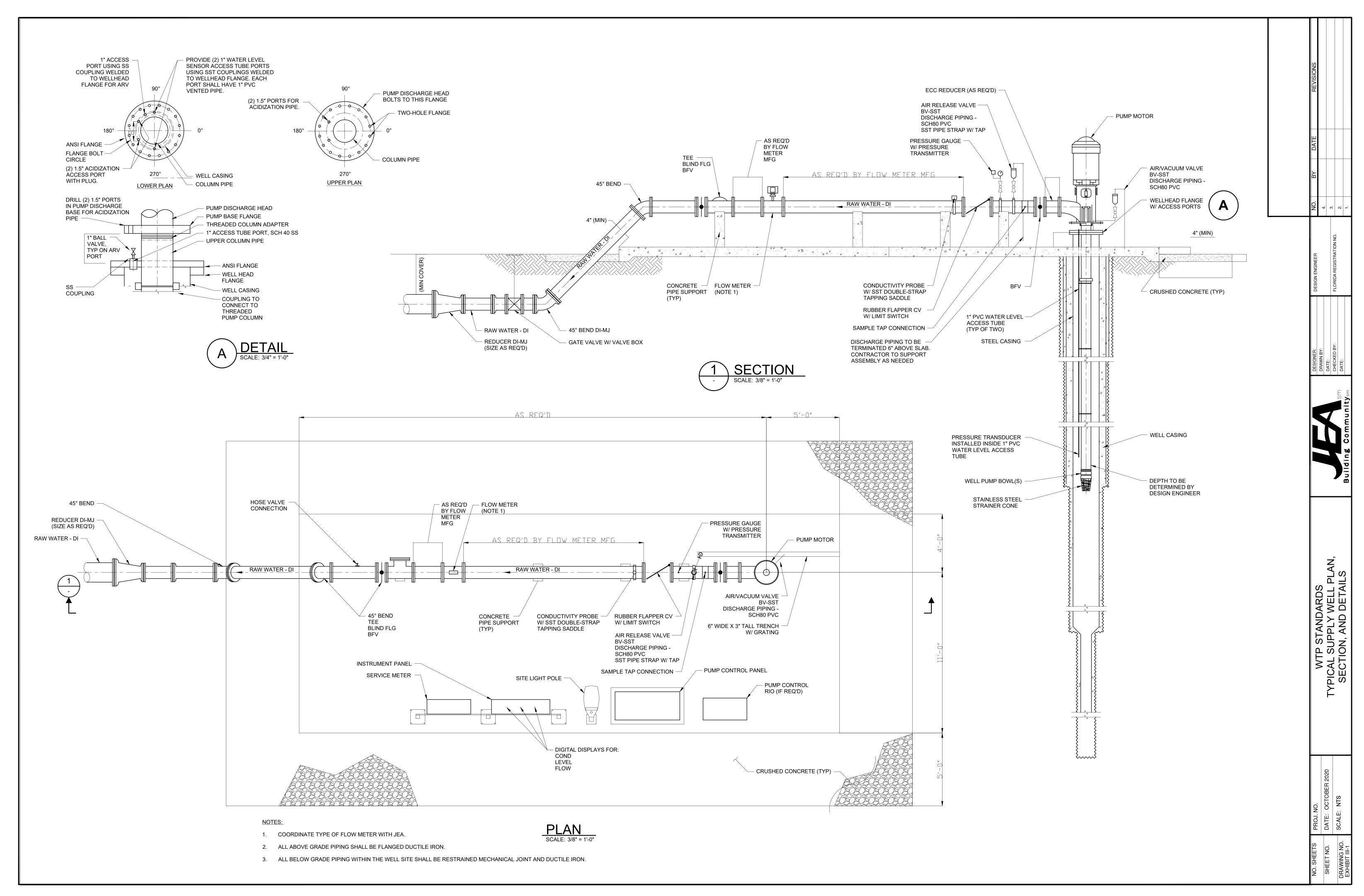
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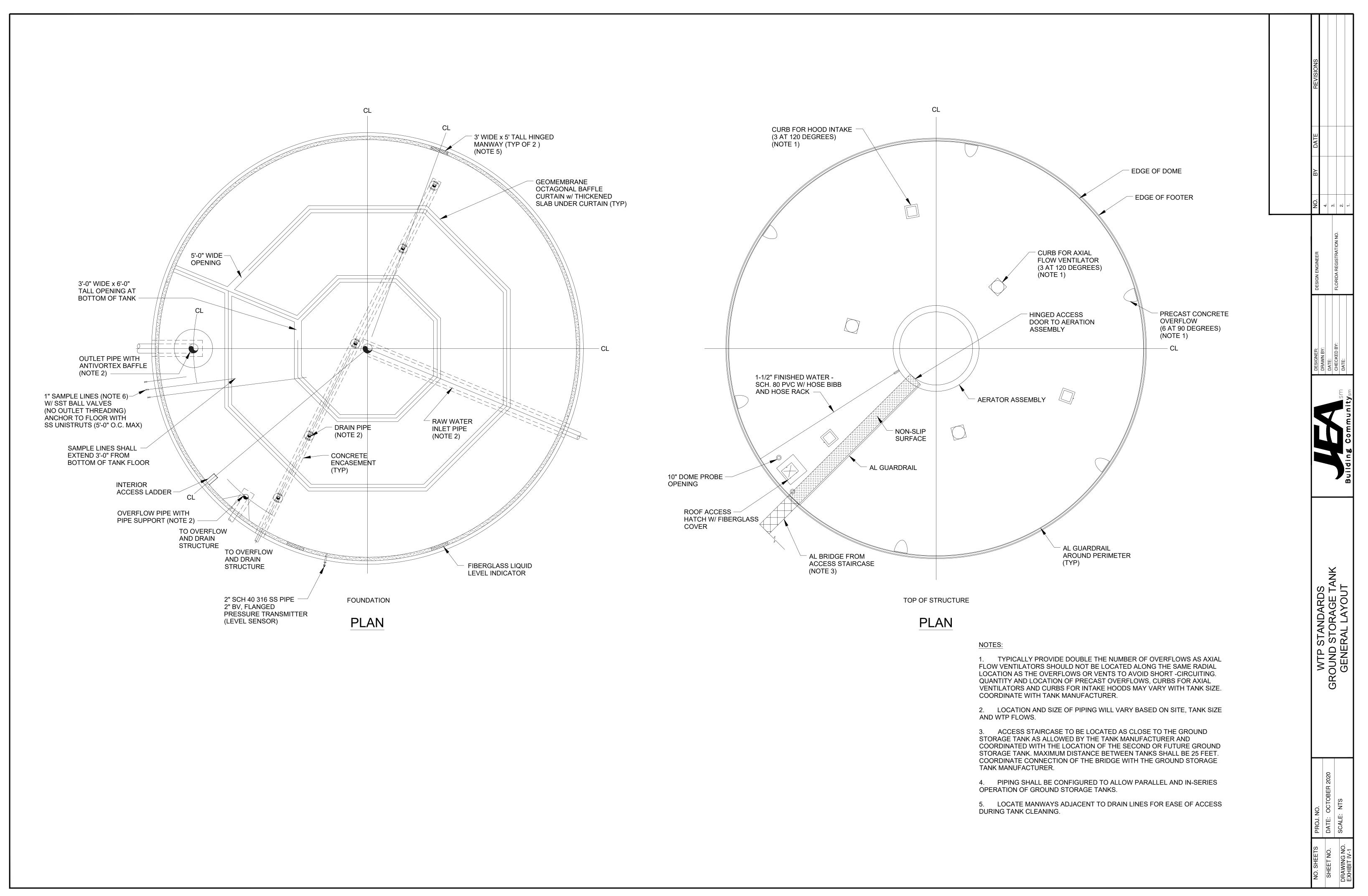
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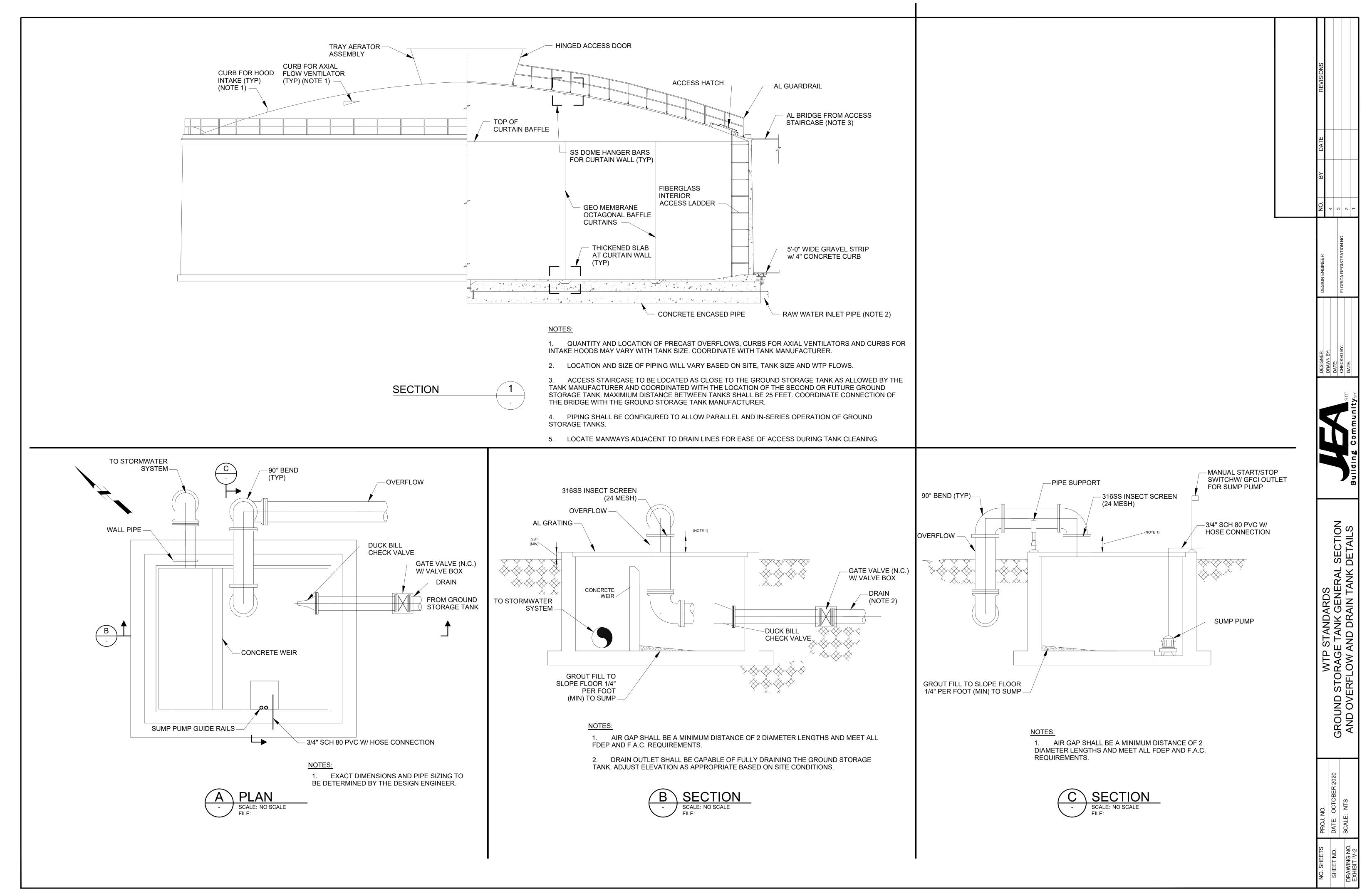


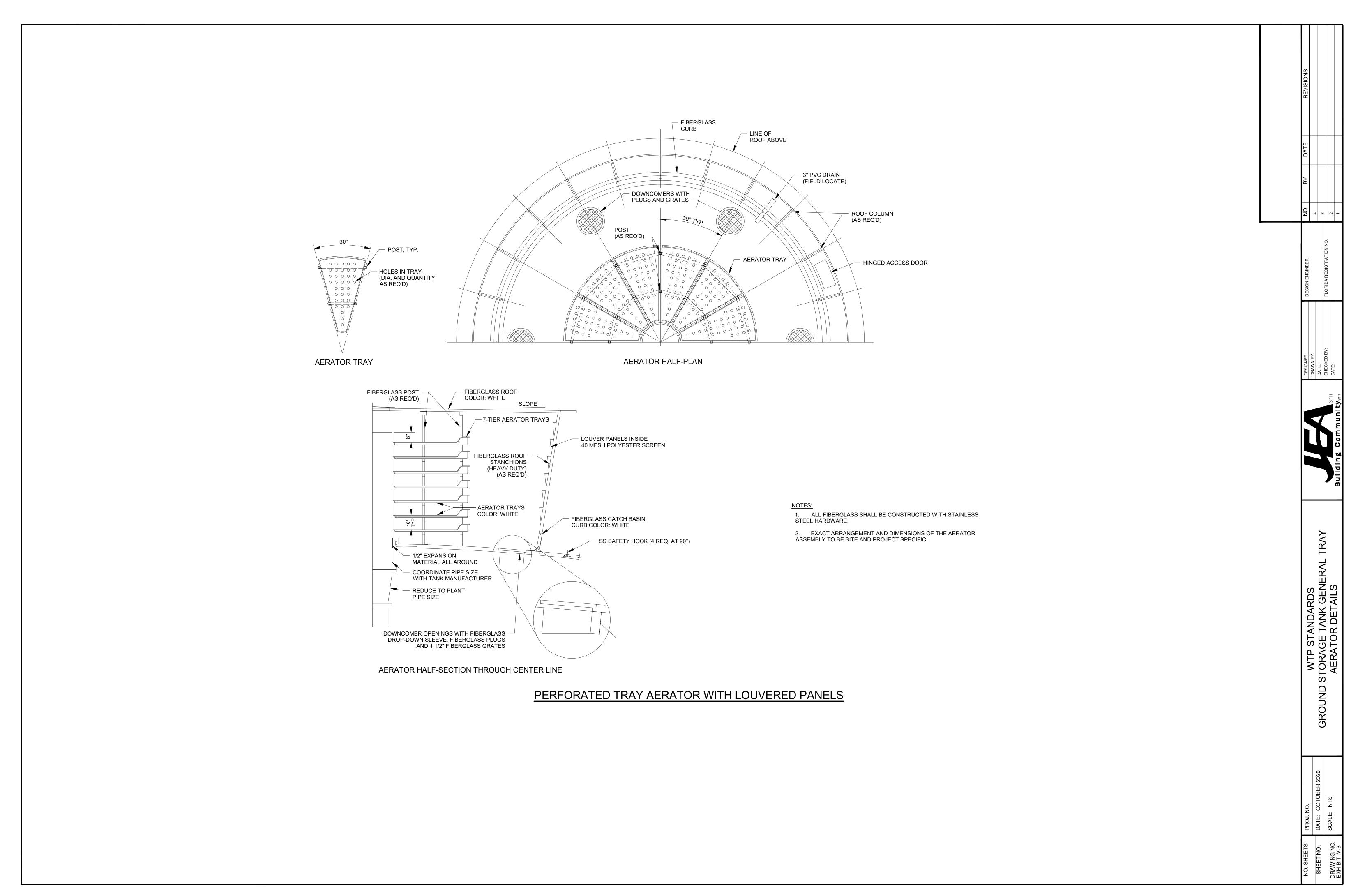


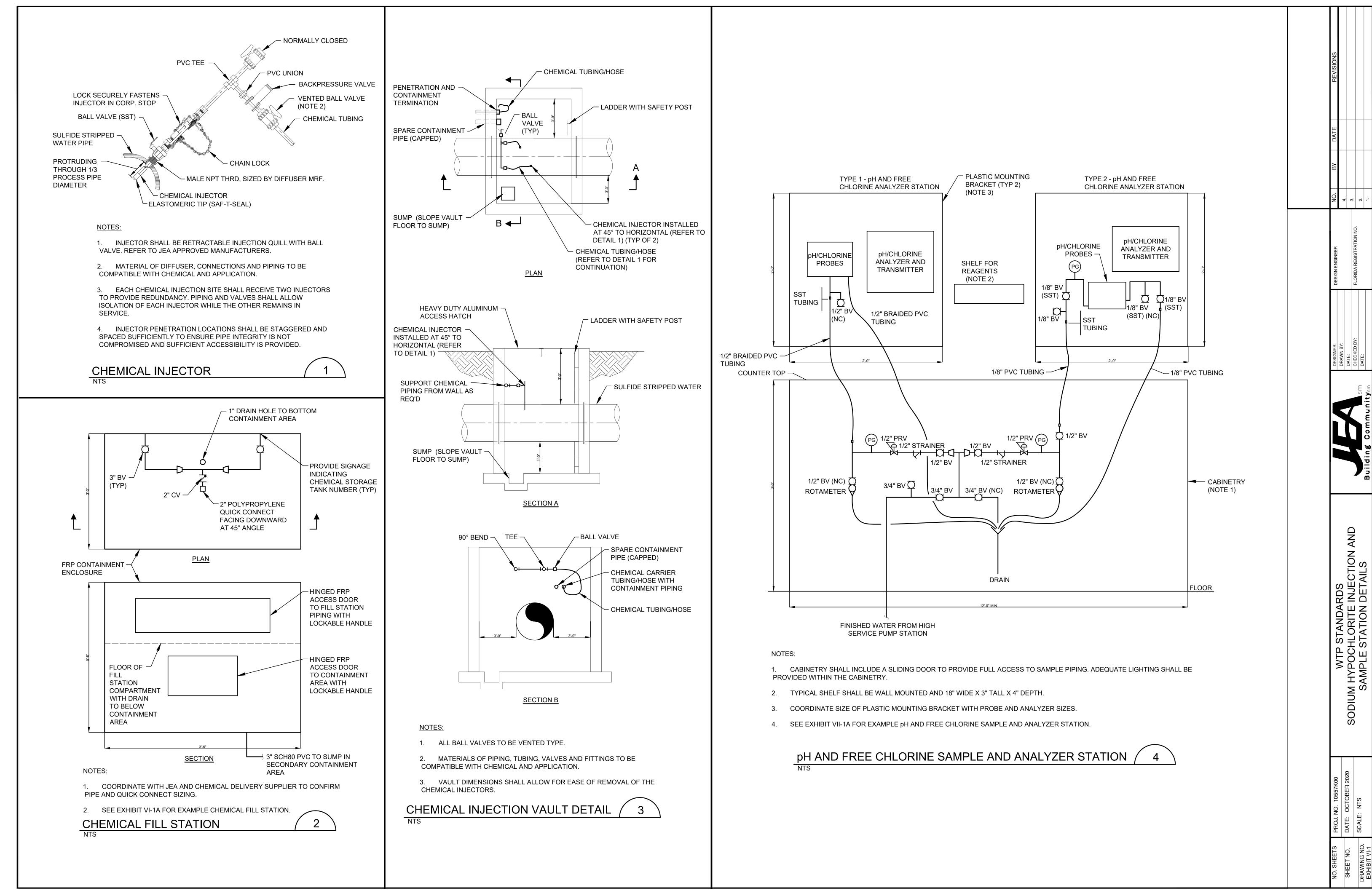












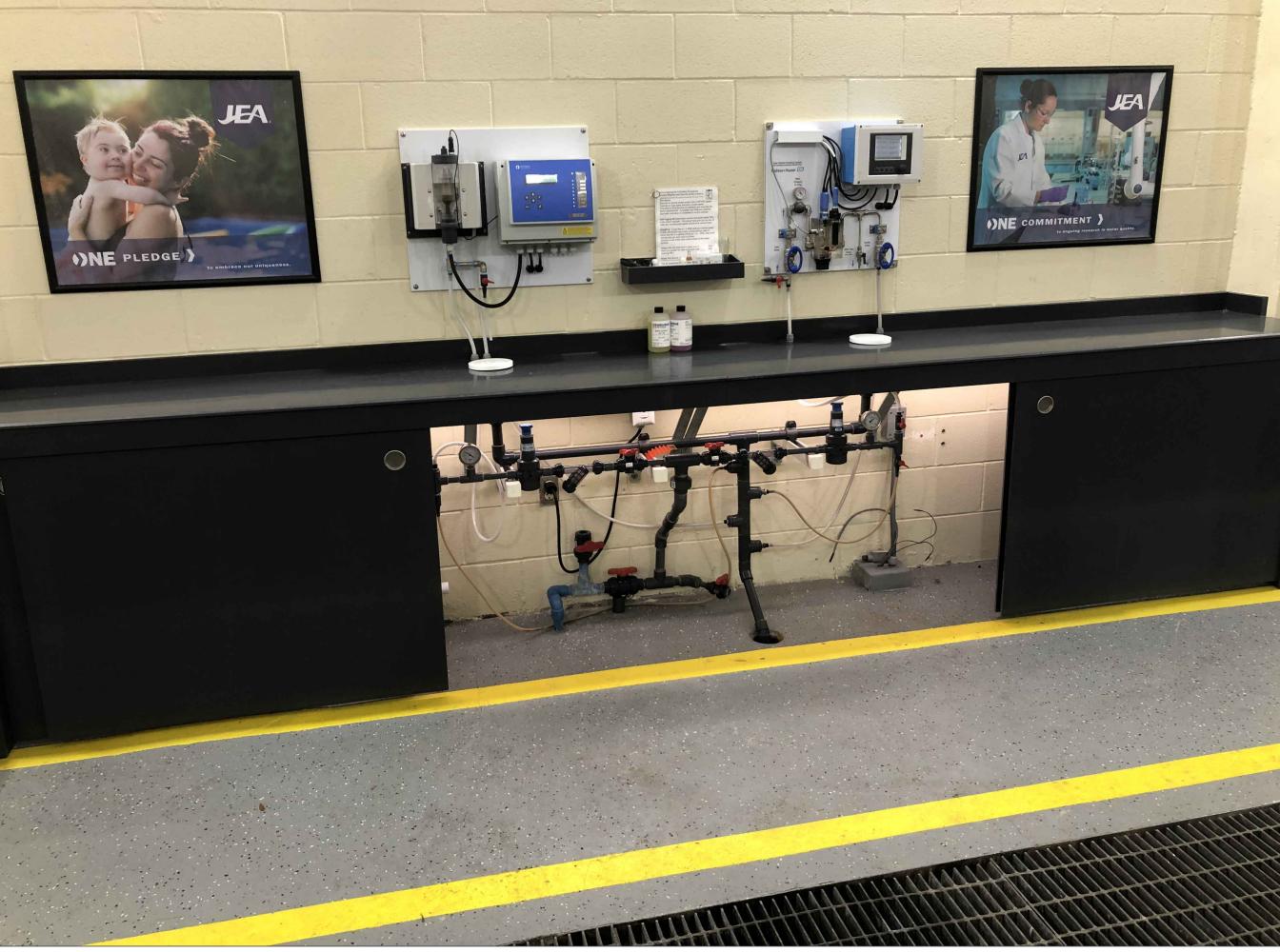


CHEMICAL FILL STATION PIPING



CHEMICAL FILL STATION

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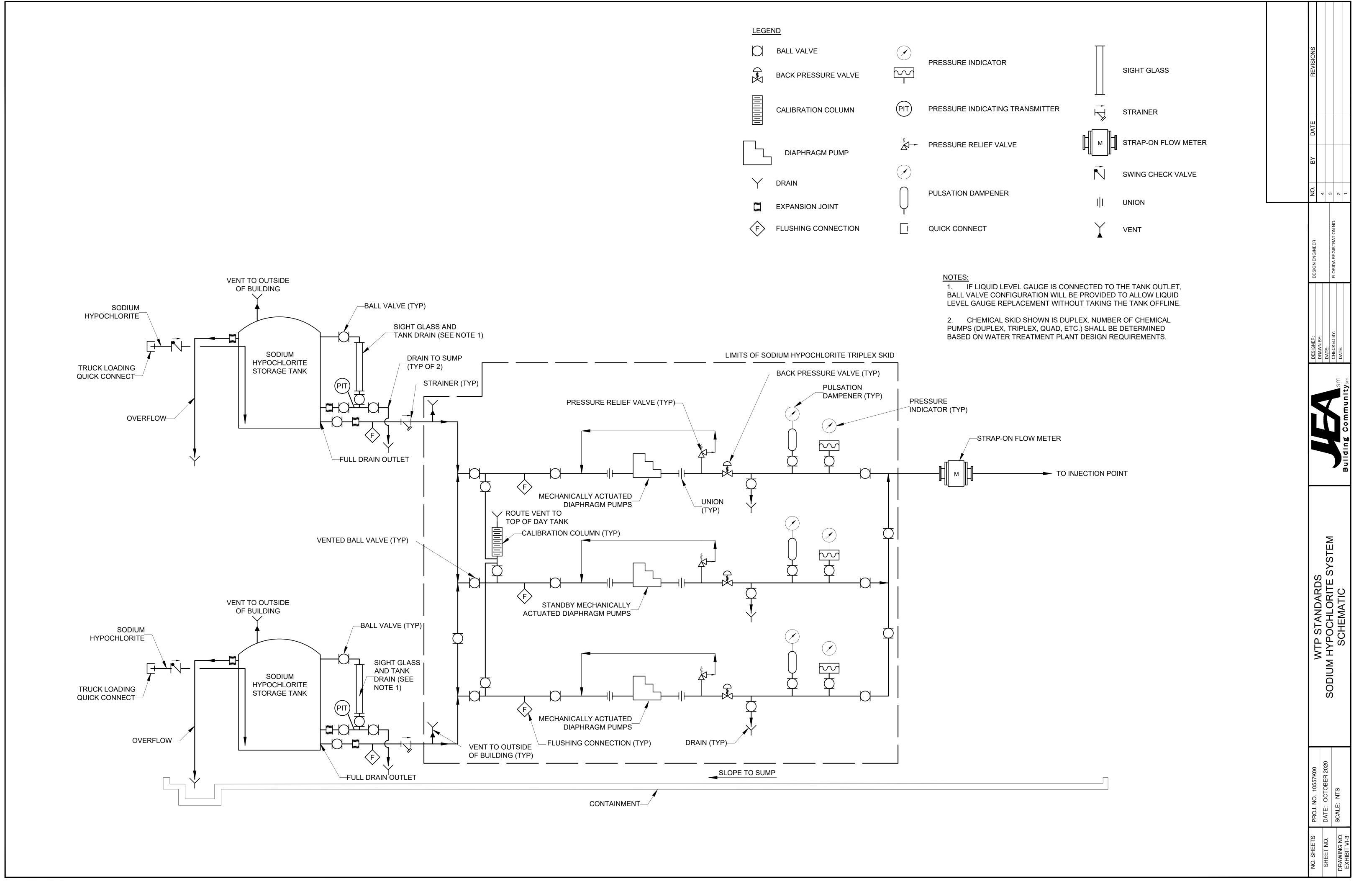
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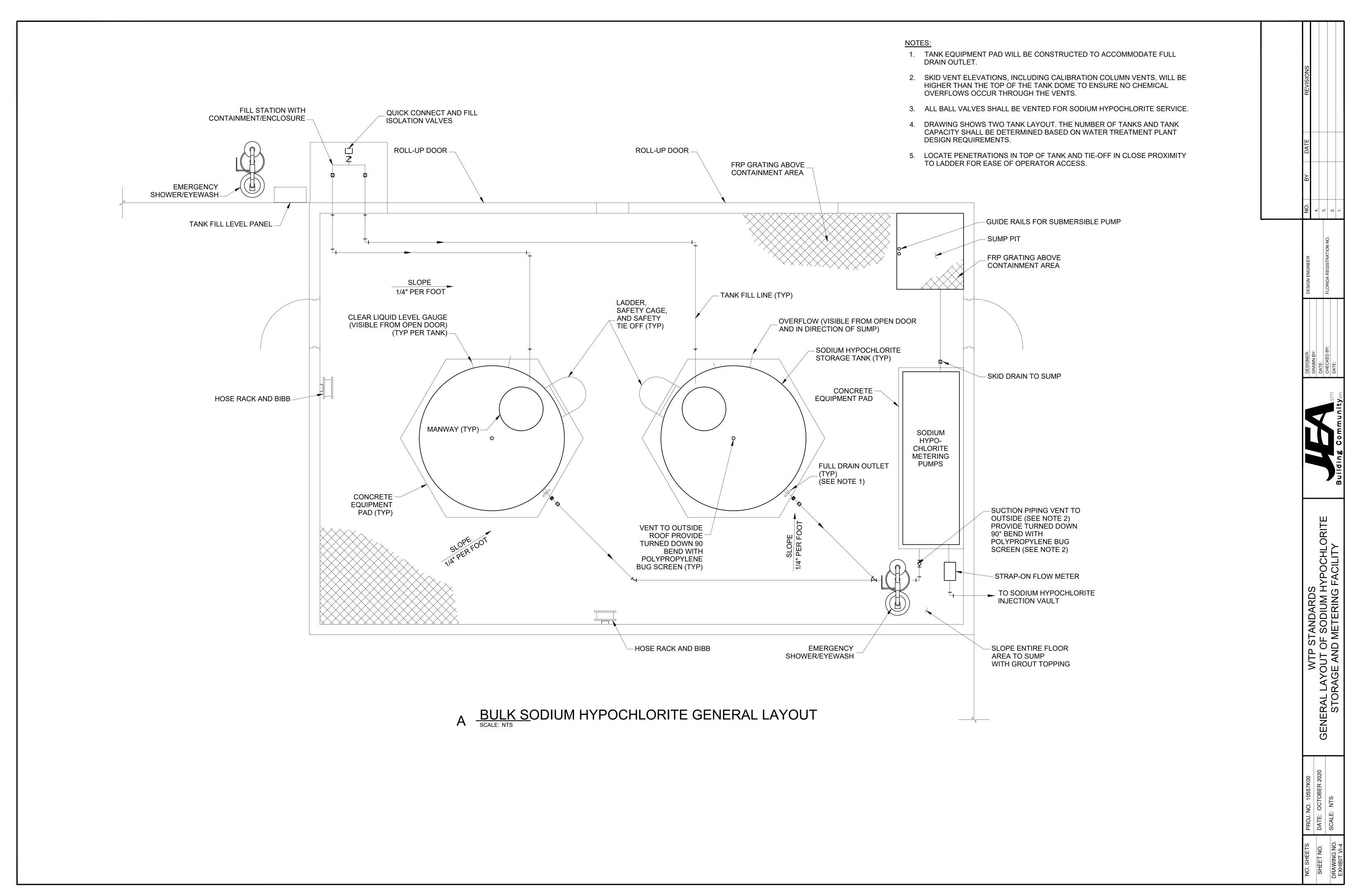
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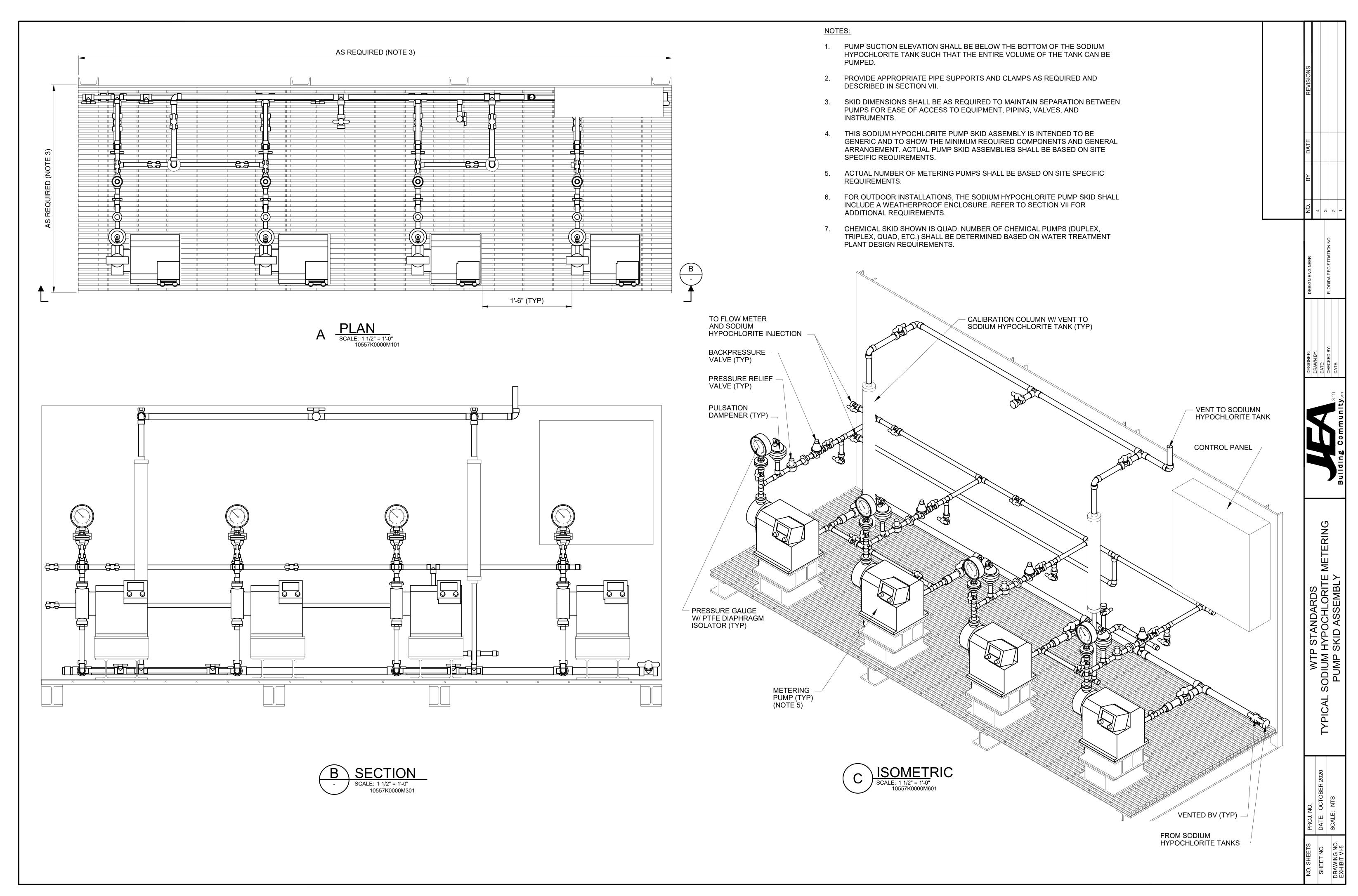
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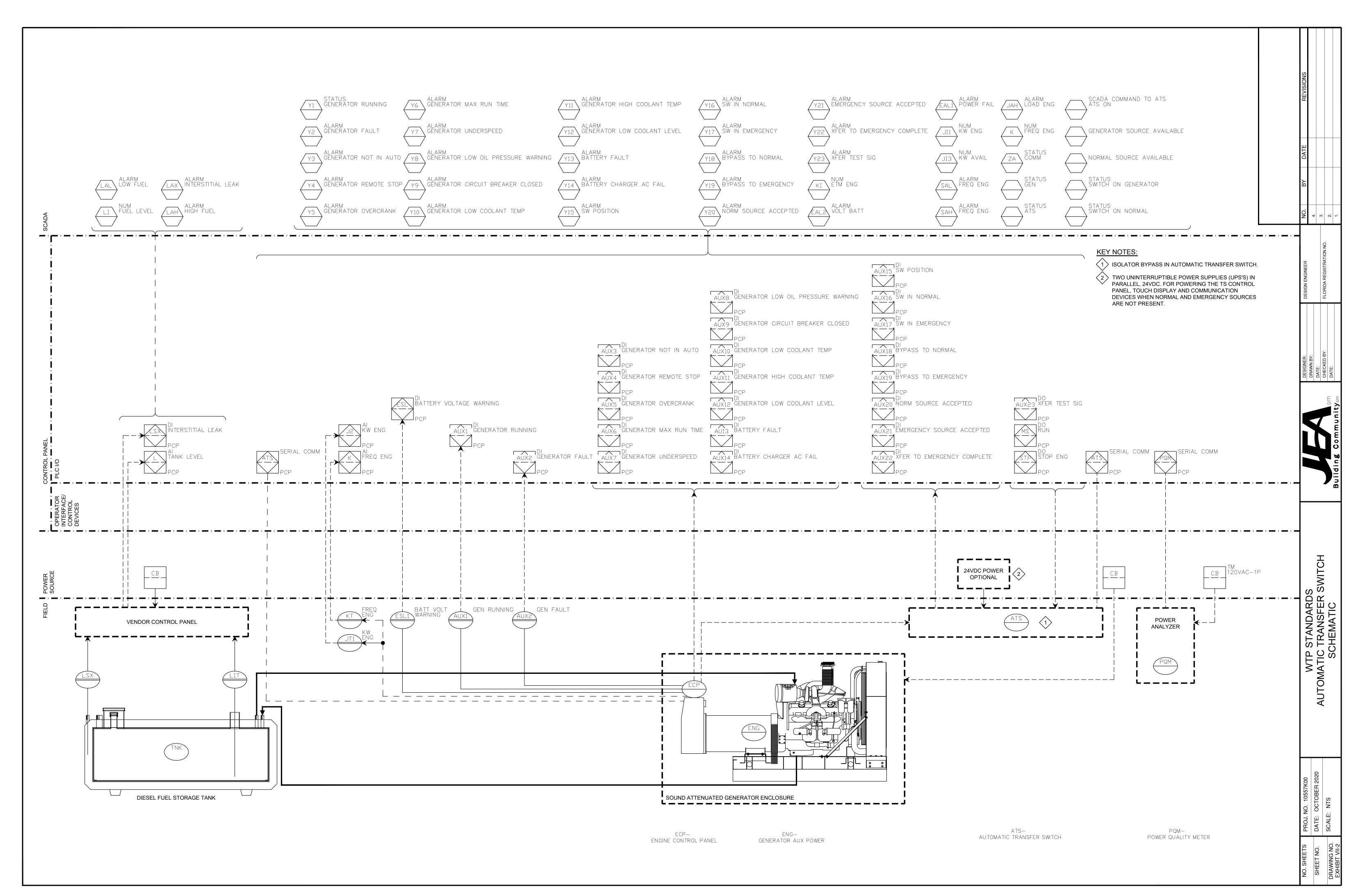
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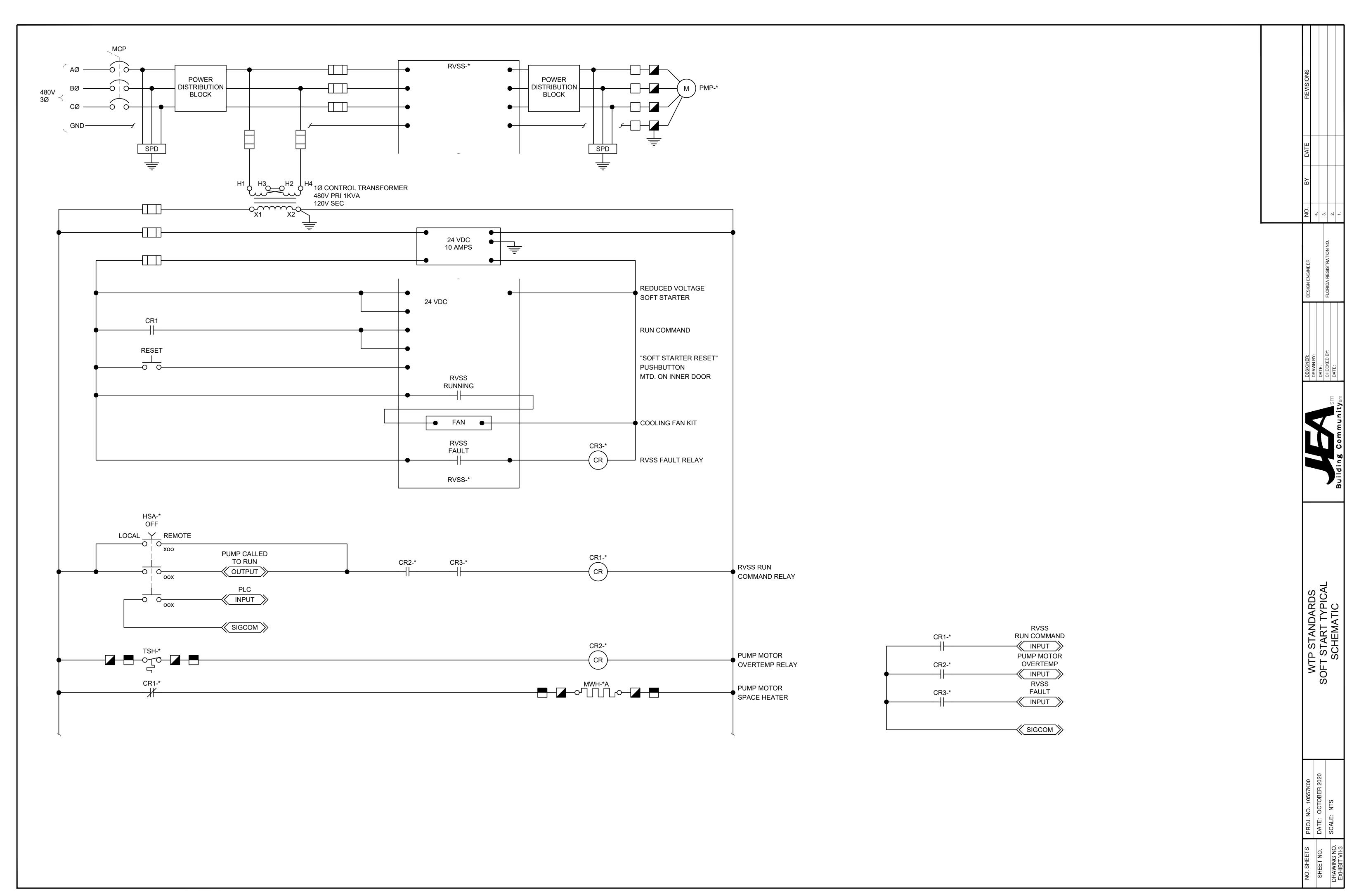
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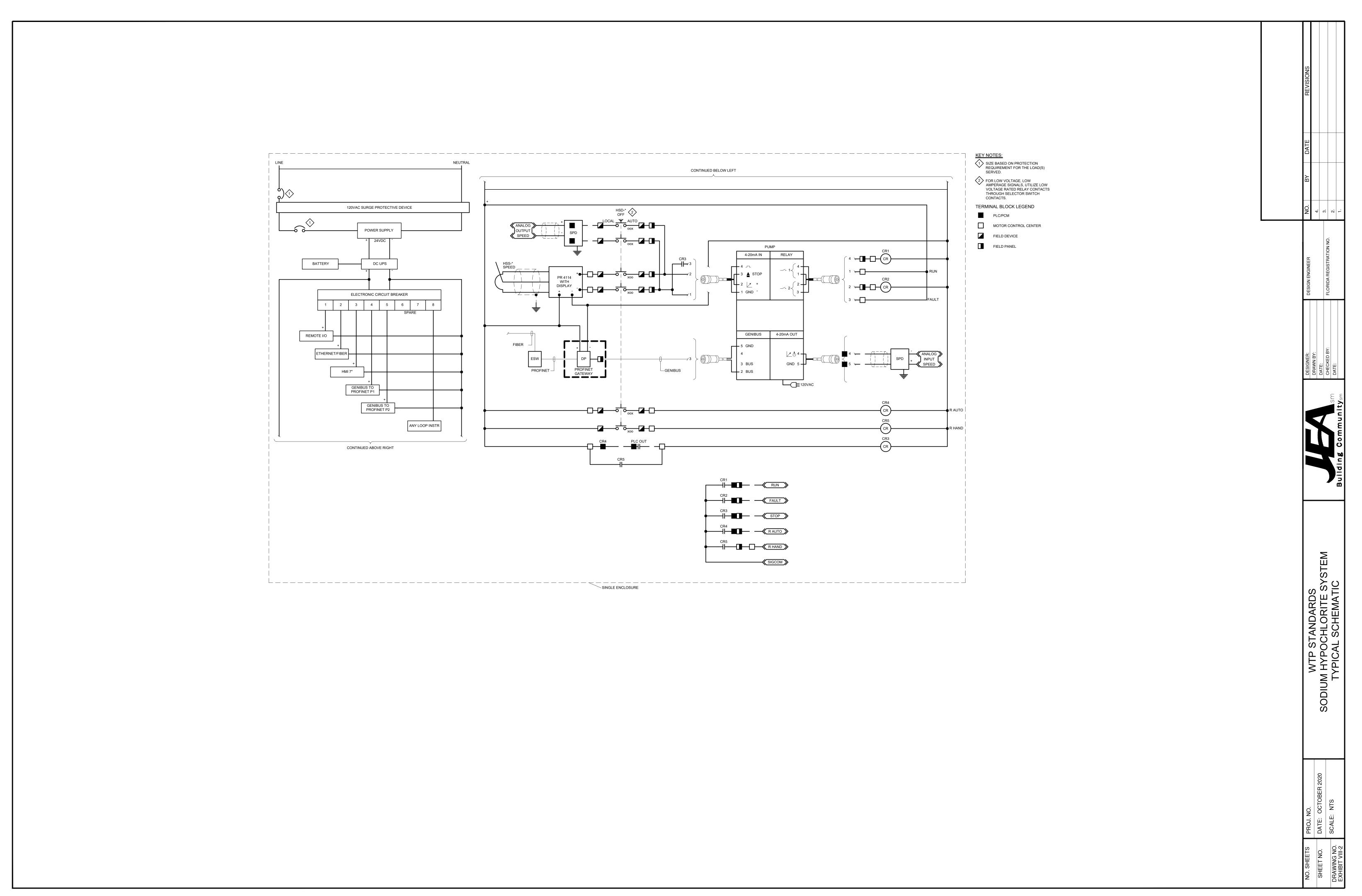


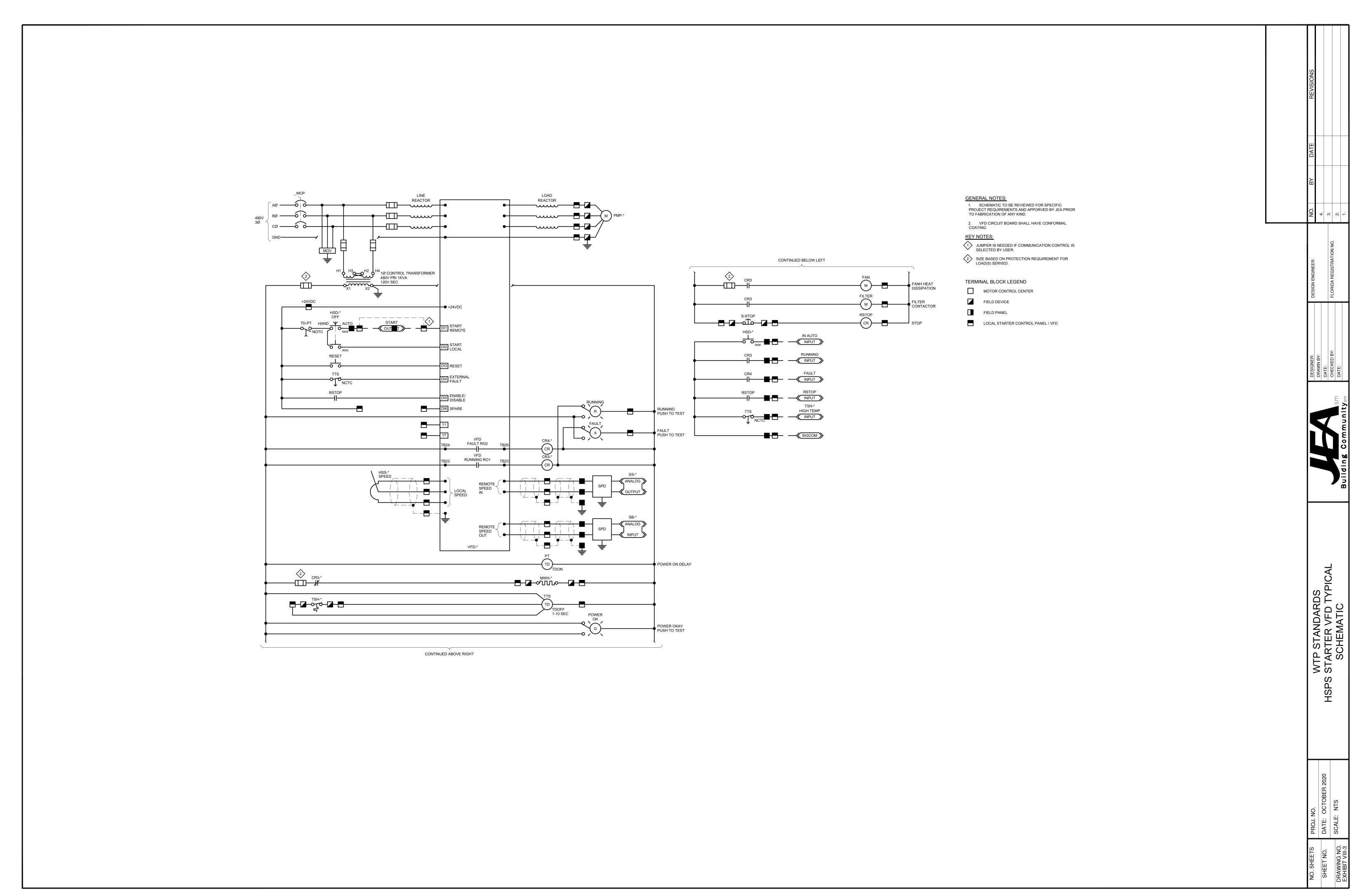


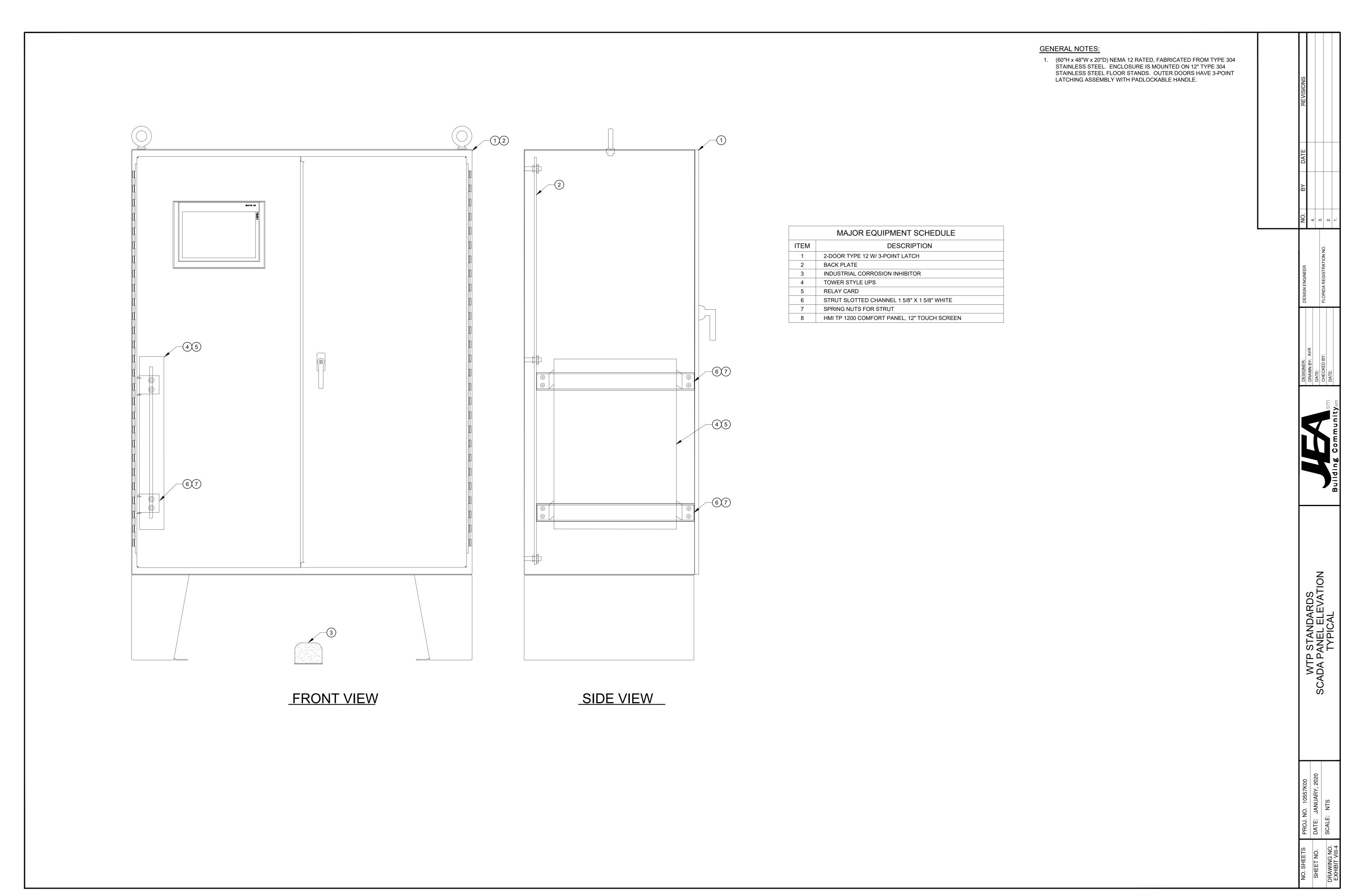


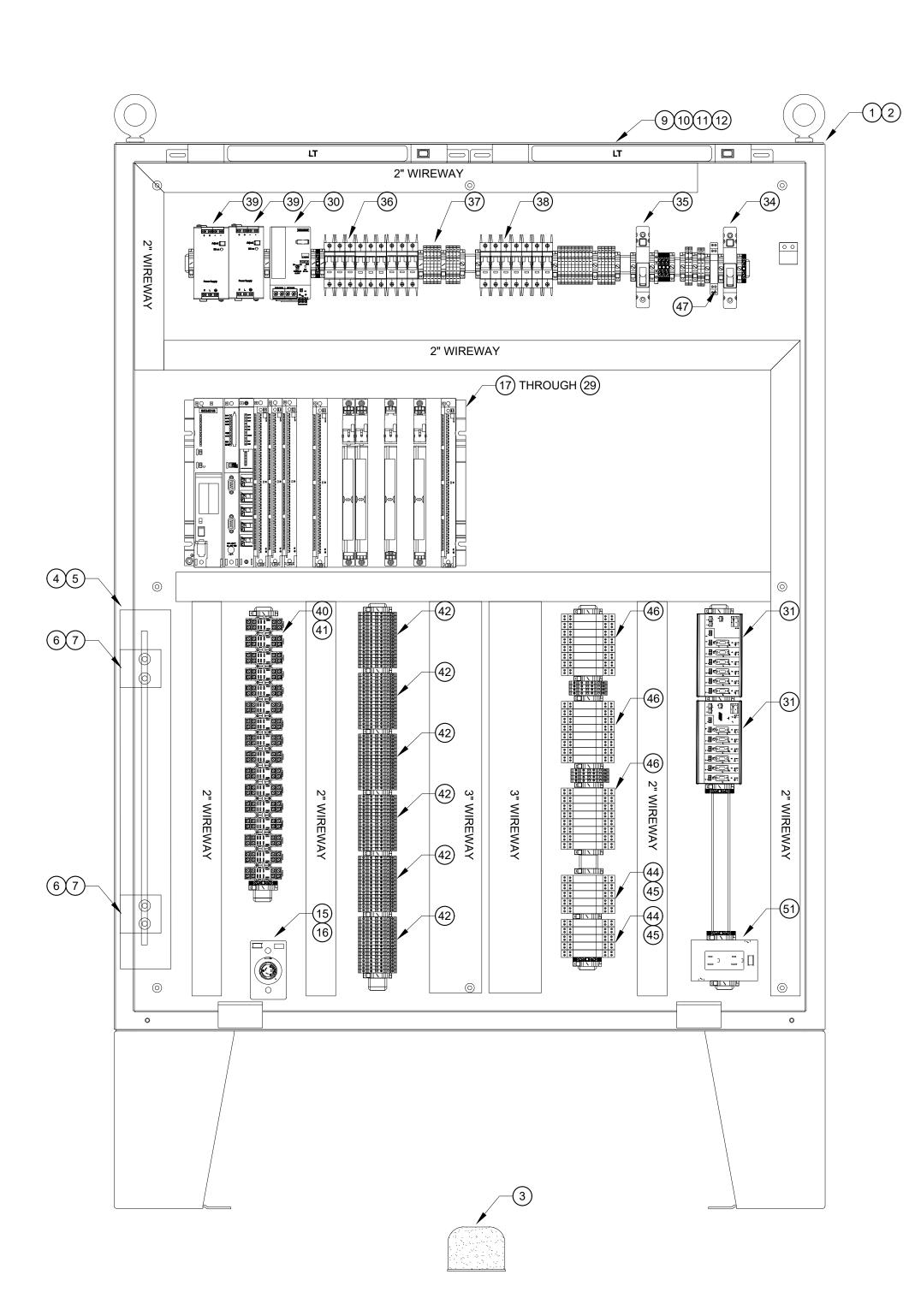












**FRONT VIEW** 

| MAJOR EQUIPMENT SCHEDULE  ITEM DESCRIPTION |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| 1  | 2-DOOR W/ 3-POINT LATCH; 60"x48"x24"                               |  |  |  |  |  |  |
| 2  | BACK PLATE   |  |  |  |  |  |  |
| 3  | INDUSTRIAL CORROSION INHIBITOR                                     |  |  |  |  |  |  |
| 4  | TOWER STYLE UPS  |  |  |  |  |  |  |
| 5  | RELAY CARD   |  |  |  |  |  |  |
| 6  | STRUT SLOTTED CHANNEL 1 5/8"x1 5/8" WHITE                          |  |  |  |  |  |  |
| 7 8  | SPRING NUTS FOR STRUT  HMI TP 1200 COMFORT PANEL, 12" TOUCH SCREEN |  |  |  |  |  |  |
| 9  | 15" FLUORESCENT FIXTURE  |  |  |  |  |  |  |
| 10   | FLUORESCENT LAMP   |  |  |  |  |  |  |
| 11   | FIXTURE POWER CABLE W/ LEADS                                       |  |  |  |  |  |  |
| 12   | FIXTURE GANGING CABLE  |  |  |  |  |  |  |
| 13   | NEMA L5-20 TWIST-LOCK MALE PLUG                                    |  |  |  |  |  |  |
| 14   | POWER CORD   |  |  |  |  |  |  |
| 15   | L5-20 TWIST-LOCK MALE PLUG  ELECTRICAL BOX 1-GANG ALUMINIUM        |  |  |  |  |  |  |
| 16   |  |  |  |  |  |  |  |
| 17   | SIEMENS PLC  |  |  |  |  |  |  |
| 18   | POWER SUPPLY   |  |  |  |  |  |  |
| 19   | BACK-UP BATTERY  |  |  |  |  |  |  |
| 20   | SIEMENS CPU  |  |  |  |  |  |  |
| 21   | RAM MEMORY CARD  |  |  |  |  |  |  |
| 22   | COMMUNICATION PROCESSOR  |  |  |  |  |  |  |
| 23   | DIGITAL INPUT  |  |  |  |  |  |  |
| 24   | DIGITAL INPUT  |  |  |  |  |  |  |
| 25   | DIGITAL OUTPUT   |  |  |  |  |  |  |
| 26   | ANALOG INPUT   |  |  |  |  |  |  |
| 27   | ANALOG OUTPUT  |  |  |  |  |  |  |
| 28   | FRONT CONNECTOR FOR SIGNAL MODULES                                 |  |  |  |  |  |  |
| 29   | BLANK MODULE COVERS FOR RACK                                       |  |  |  |  |  |  |
| 30   | REDUNDANT DC POWER SUPPLY MODULE                                   |  |  |  |  |  |  |
| 31   | PROFIBUS HUB   |  |  |  |  |  |  |
| 32   | PROFIBUS CONNECTOR W/ DIAGNOSTICS LED'S 45° ANGLE                  |  |  |  |  |  |  |
| 33   | PROFIBUS CONNECTOR W/ DIAGNOSTICS LED'S 90° ANGLE                  |  |  |  |  |  |  |
| 34   | BREAKER  |  |  |  |  |  |  |
| 35   | BREAKER  |  |  |  |  |  |  |
| 36   | BRANCH CIRCUIT BREAKER   |  |  |  |  |  |  |
| 37   | BRANCH CIRCUIT BREAKER   |  |  |  |  |  |  |
| 38   | BRANCH CIRCUIT BREAKER   |  |  |  |  |  |  |
| 39   | DC POWER SUPPLY  |  |  |  |  |  |  |
| 40   | RELAY  |  |  |  |  |  |  |
| 41   | RELAY BASE   |  |  |  |  |  |  |
| 41   | SURGE PROTECTOR FOR 120VAC SIGNALS                                 |  |  |  |  |  |  |
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| 43   | SURGE PROTECTOR FOR 24 VDC SIGNALS                                 |  |  |  |  |  |  |
| 44   | SURGE PROTECTOR FOR RS-485/PROFIBUS CONNECTIONS                    |  |  |  |  |  |  |
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| 46   | SURGE PROTECTOR FOR 24V 4-20 MA SIGNALS                            |  |  |  |  |  |  |
| 47   | SURGE PROTECTOR FOR 120V SIGNALS                                   |  |  |  |  |  |  |
| 48   | TERMINAL 1 CIRCUIT   |  |  |  |  |  |  |
| 49   | GROUNDING TERMINAL GREEN YELLOW                                    |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 50   | TERMINAL END CLAMP   |  |  |  |  |  |  |

### **GENERAL NOTES:**

- 1. (60"H x 48"W x 20"D) NEMA 12 RATED, FABRICATED FROM TYPE 304 STAINLESS STEEL. ENCLOSURE IS MOUNTED ON 12" TYPE 304 STAINLESS STEEL FLOOR STANDS. OUTER DOORS HAVE 3-POINT LATCHING ASSEMBLY WITH PADLOCKABLE HANDLE.
- ENCLOSURE BACK PANEL FABRICATED FROM CARBON STEEL WITH INDUSTRIAL GRADE WHITE ENAMEL FINISH.

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DESIGN ENGINEER

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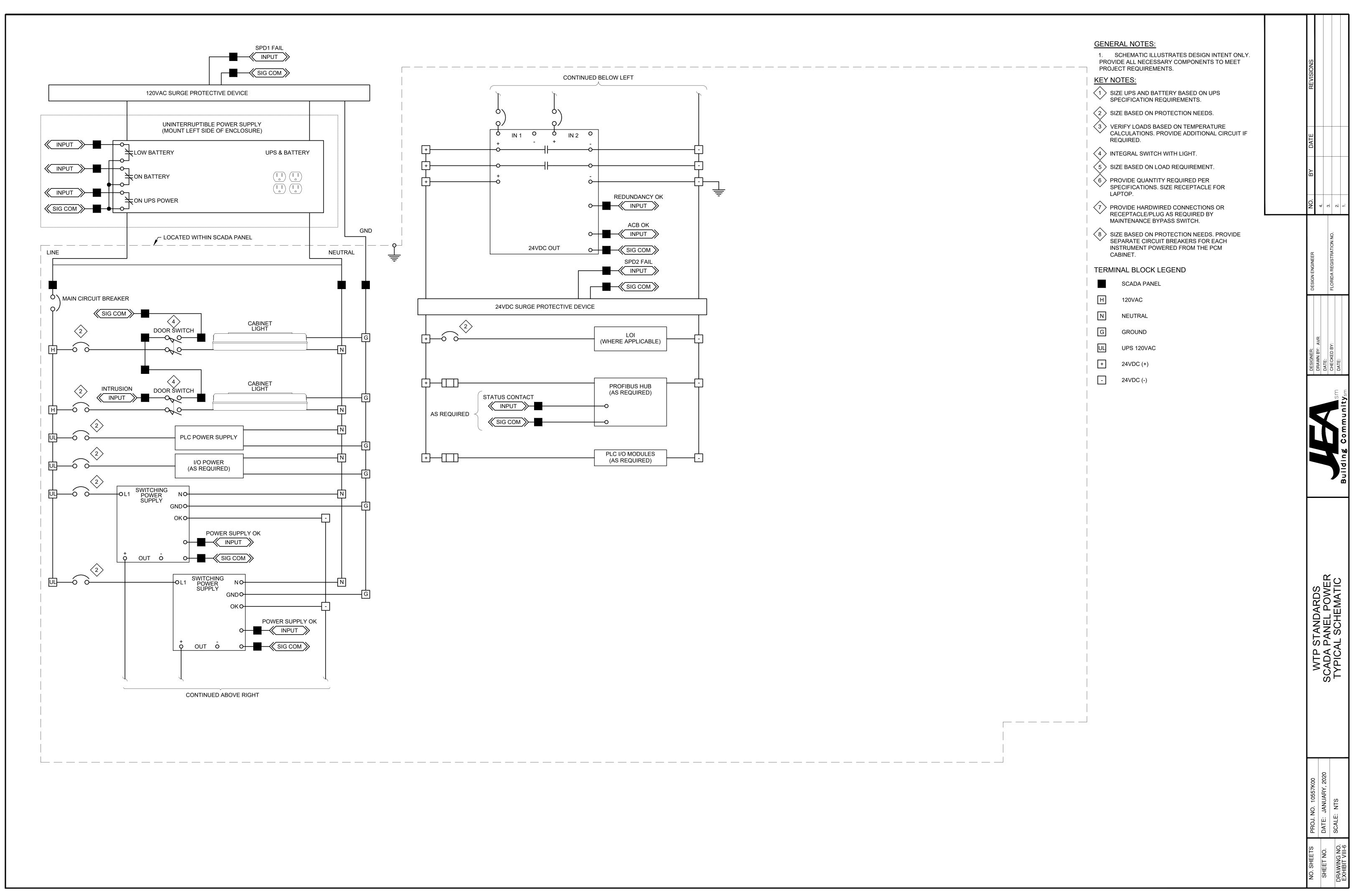
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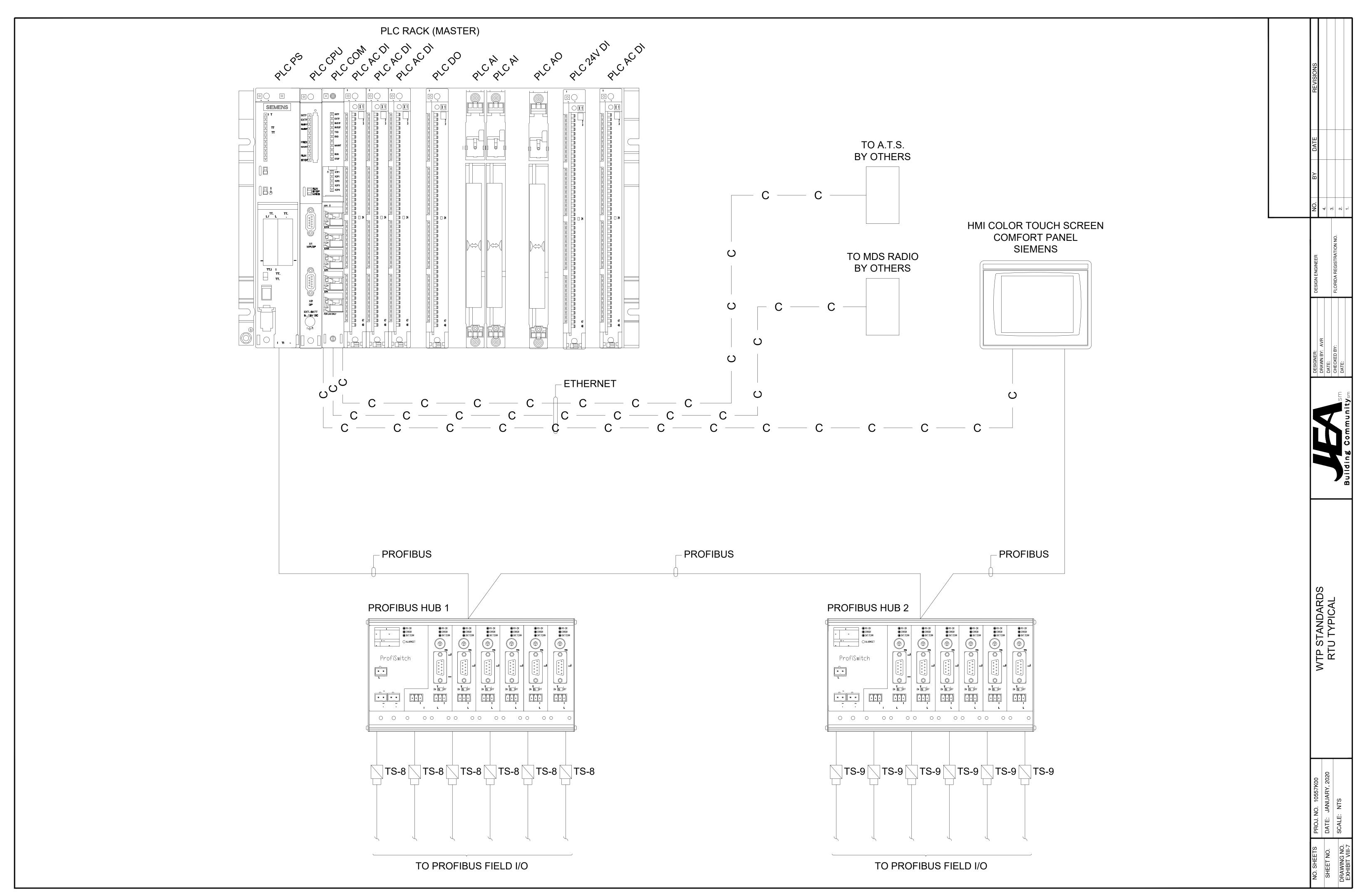
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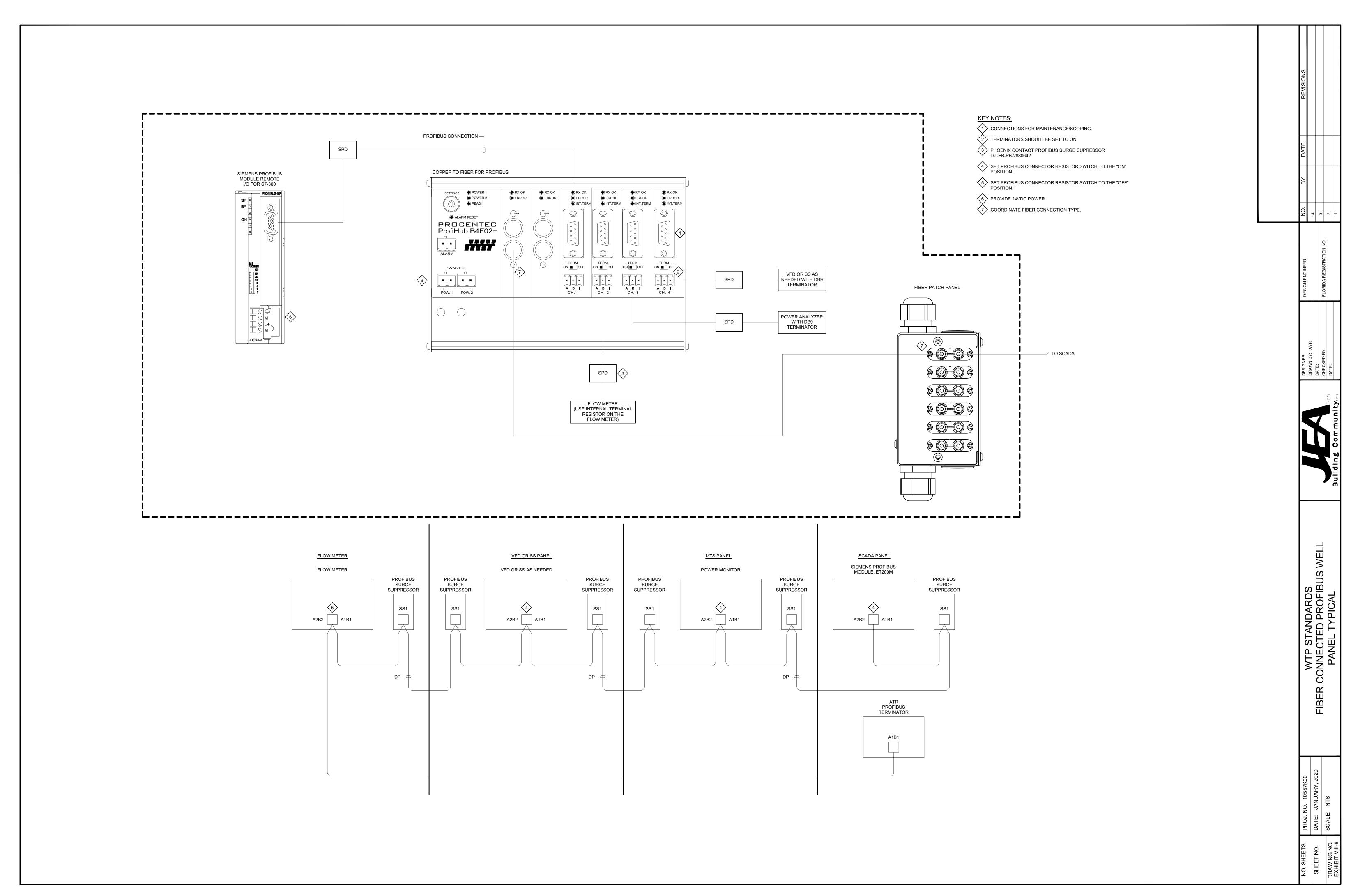
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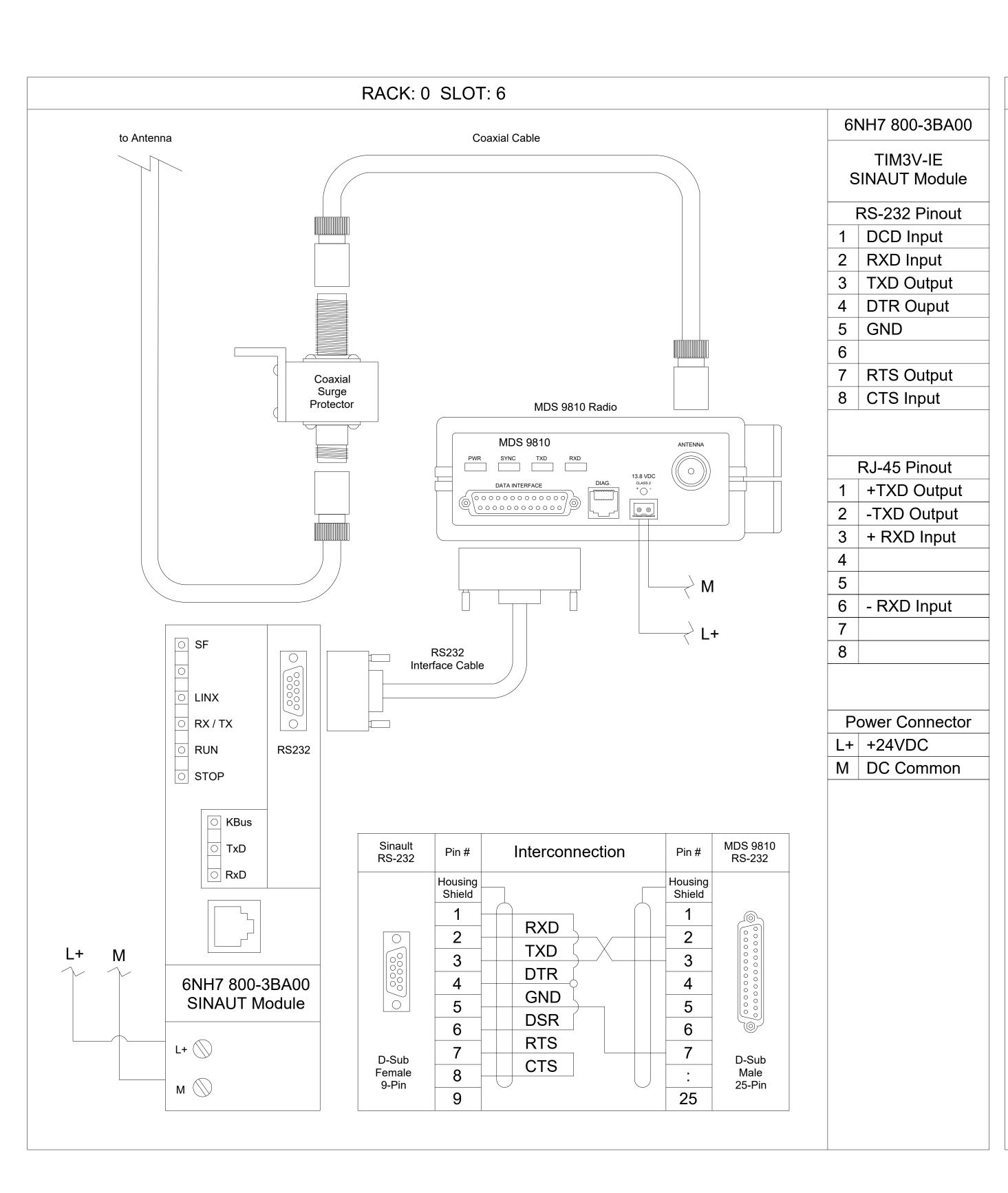
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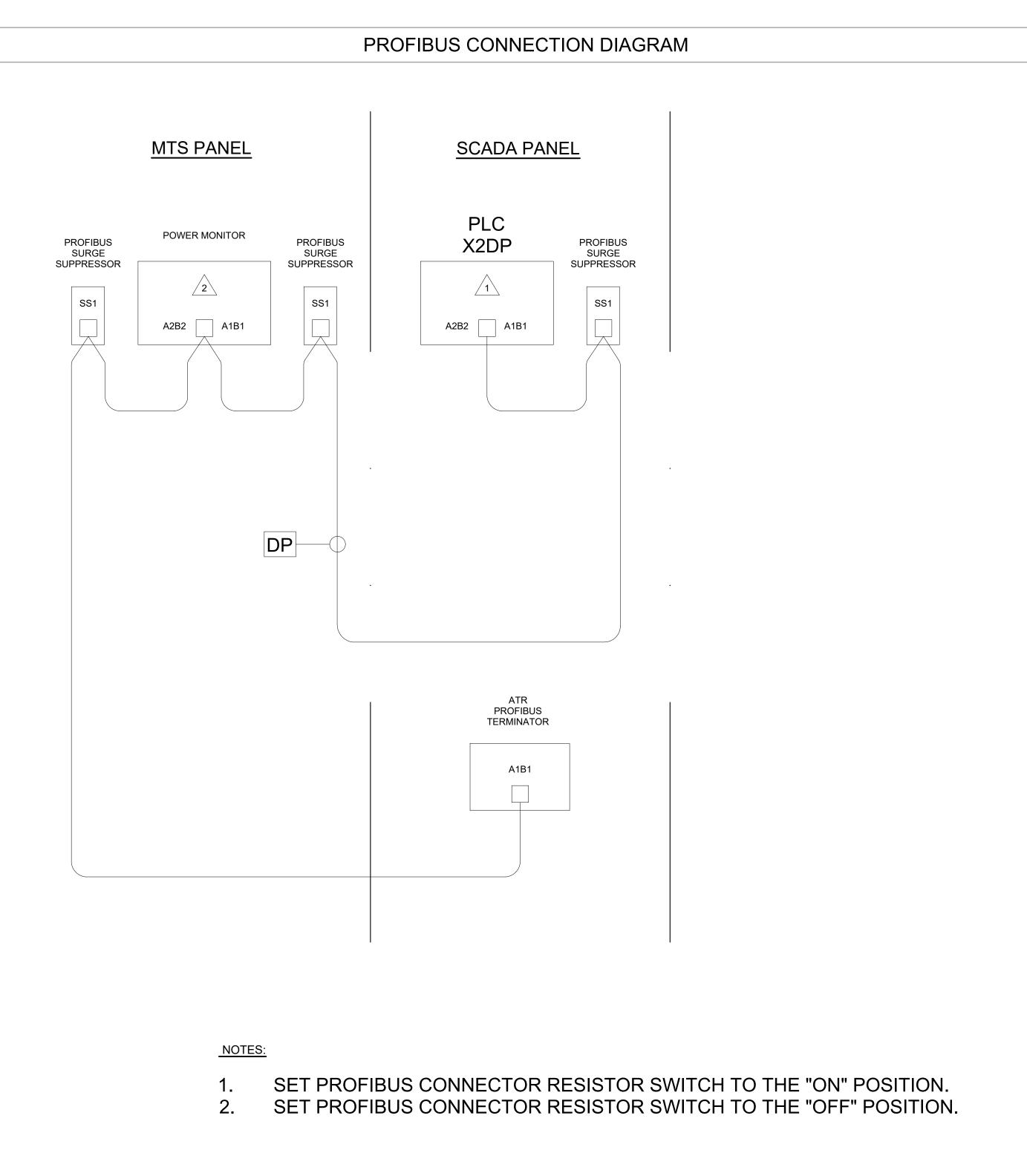
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WTP STANDARDS
RADIO CONNECTED PROFIBUS WELL
PANEL TYPICAL

