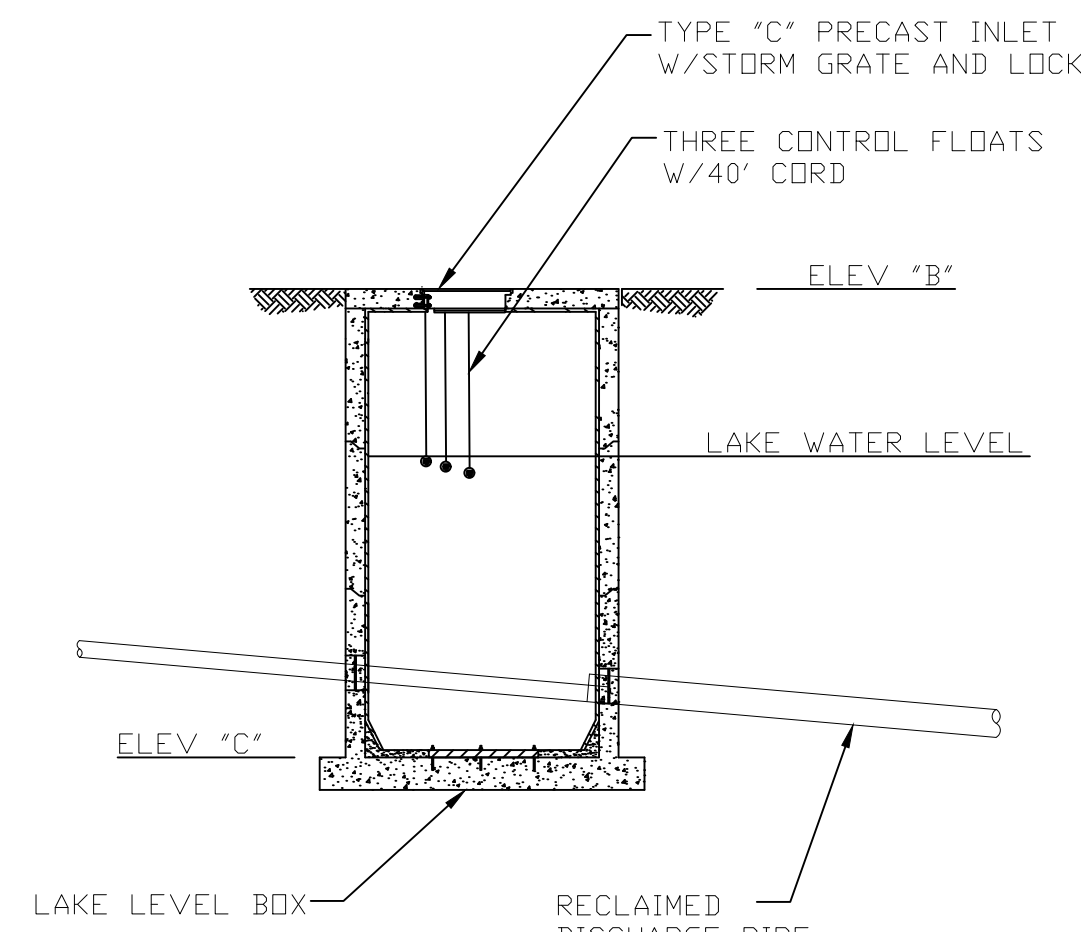
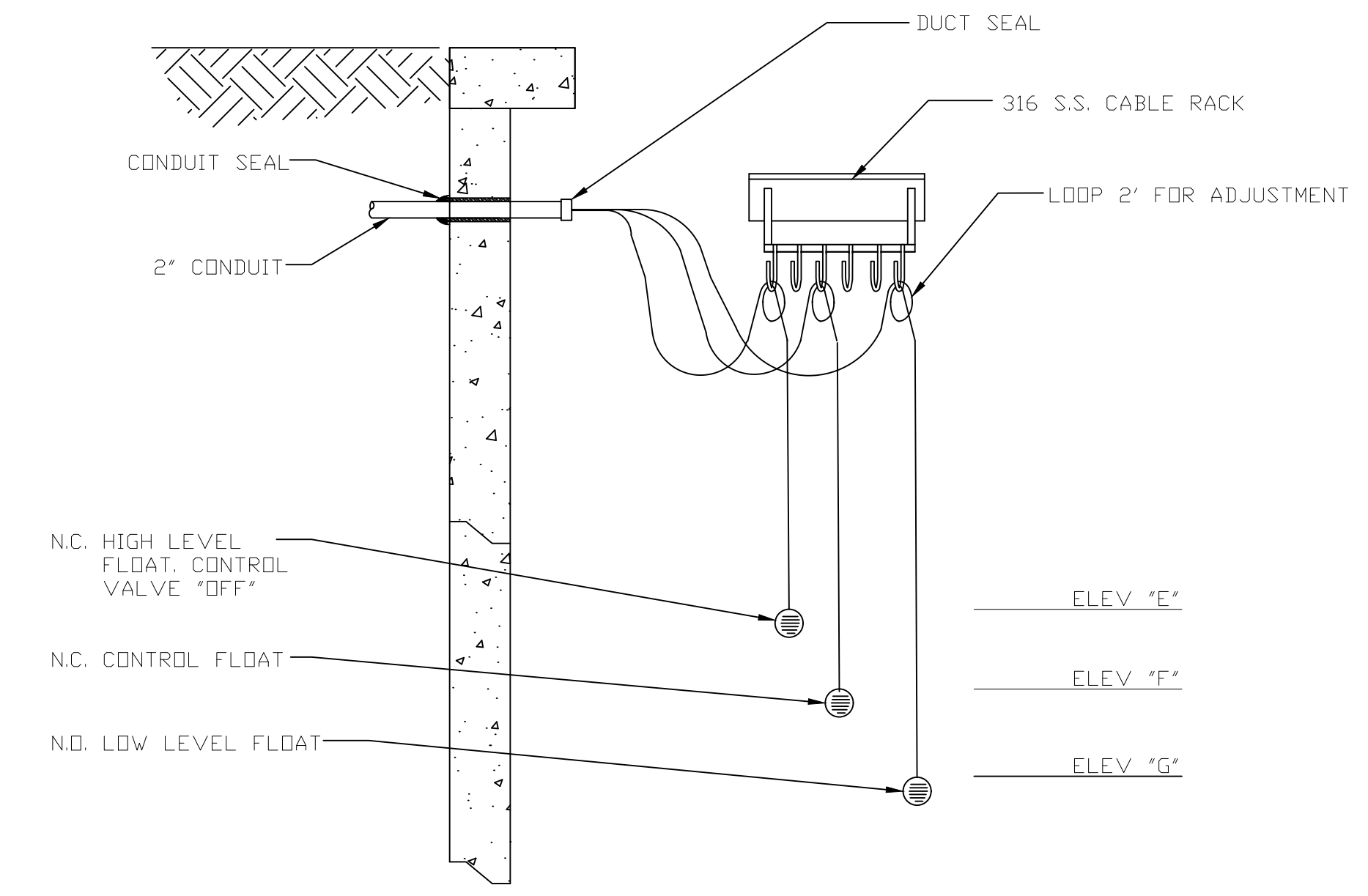


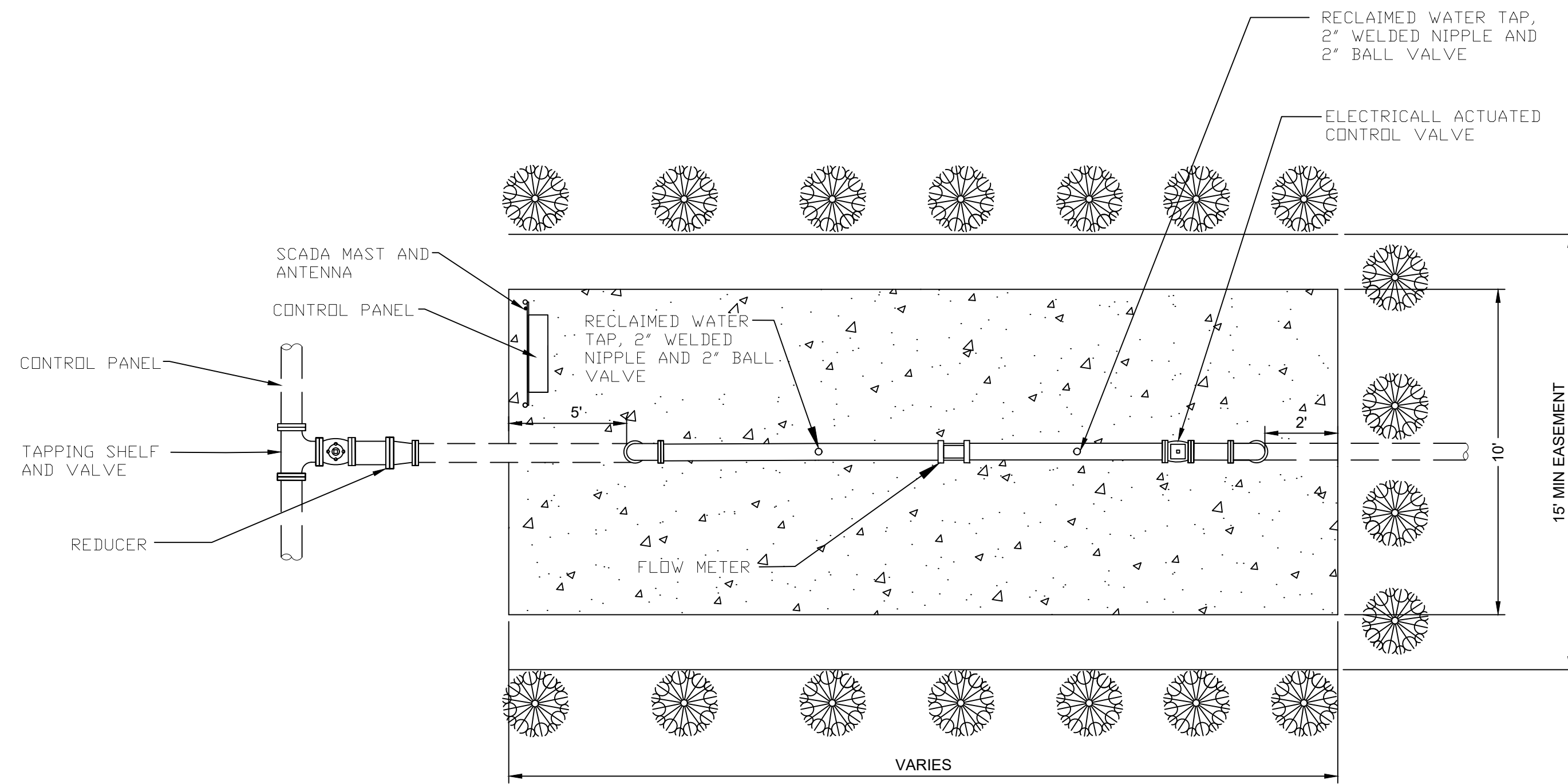
**SECTION VIEW**  
NOT TO SCALE



**CONNECTION DETAIL**  
NOT TO SCALE



**FLOAT STABILIZER BRACKET DETAIL**  
NOT TO SCALE



**PLAN VIEW**  
NOT TO SCALE

**GENERAL NOTES:**

- ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION XXX, "RECLAIMED WATER DELIVERY STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
- 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.
- ALL PRECAST STRUCTURE JOINTS BELOW THE TOP SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER)
- 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 BACKED 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).
- PIPING ABOVE GROUND SHALL BE DUCTILE IRON AND PIPING BELOW GROUND SHALL BE SCH40 PVC.
- 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.
- FLOW METER, CONTROL VALVE, ORIFICE PLAT AND CONTROL PANEL TO BE PURCHASED FROM JEA APPROVED VENDOR.
- DIMENSION "L" TO BE DESIGNED BY ENGINEER.
- JEA TO FURNISH AND INSTALL MAST, ANTENNA AND PRESSURE TRANSDUCERS.
- SUBMIT SHOP DRAWINGS FOR CONTROL PANEL, LAKE LEVEL BOX AND CONTROL VALVE.
- SUBMIT RECORD DRAWINGS SHOWING FINISHED ELEVATIONS, COORDINATES OF CORNERS OF STRUCTURES, AND COORDINATES OF EASEMENT.
- 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.
- 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 T 2- FEET BEYOND POINT WHERE SIDE OF BERM MEETS EXISTING GROUND.
- TYPE "C" PRECAST INLET BOX SHALL BE FURNISHED WITH AN ENVIRONMENT COMPOSITE, INC. MODEL CNFM NON-TRAFFIC RATED FIBERGLASS GRATE, 32LB MAX., IN LIEU OF A C.I. STORM GRATE (USE JEA APPROVED PRECASTERS).
- 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.

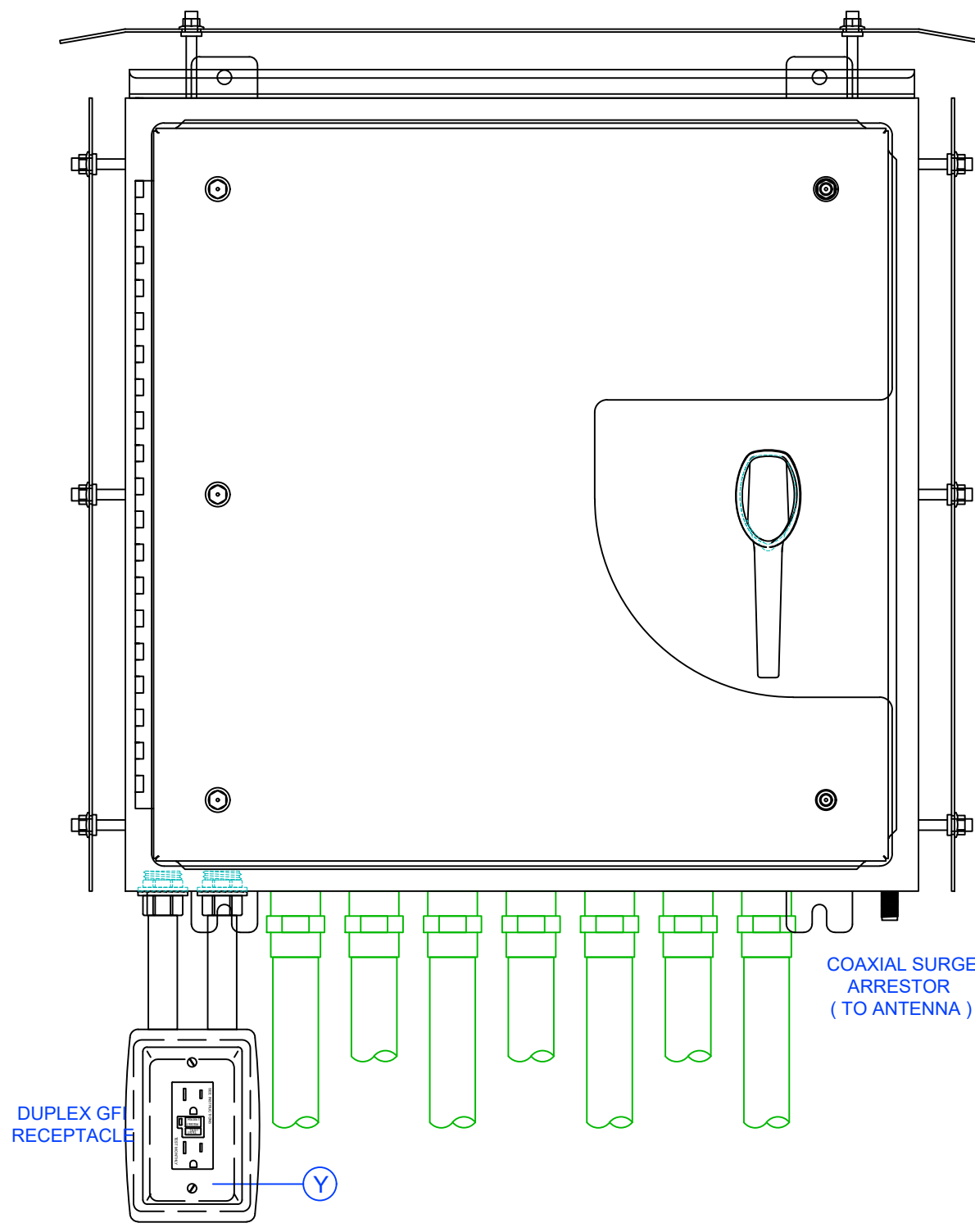
DELIVERY STATION PIPE/VALVE CAPACITY	
NOMINAL SIZE	PEAK DELIVERY RATE (GPM)
4-INCH	375
6-INCH	900
8-INCH	1500

ELEVATIONS		
LOCATION	ITEM	ELEVATION
"A"	SLAB	
"B"	LAKE LEVEL BOX-TOP	
"C"	LAKE LEVEL BOX-BOTTOM	
"E"	HIGH LEVEL FLOAT	
"F"	CONTROL FLOAT	
"G"	LOW LEVEL FLOAT	

NO. SHEETS 1	SHEET NO. 3	DRAWING NO.	PROJ. NO.	DATE: JANUARY 2020	SCALE: NTS	DESIGNER: DRAWN BY: DATE:	DESIGN ENGINEER FLORIDA REGISTRATION NO.	CHECKED BY: DATE:	REVISIONS		
									NO.	BY	DATE
									1		

**JEA STANDARD**  
**RECLAIMED WATER DELIVERY STATION DETAILS**  
**PIPING LAYOUT**

**JEA**  
Building Community<sup>sm</sup>



- GENERAL NOTES:**
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 FIELD WIRING SHALL BE #14 AWG STRANDED, TIN-PLATED COPPER.
  5. ALL PLC I/O WIRING SHALL BE #18 AWG.
  6. ALL MOUNTING SCREWS SHALL BE DRILLED AND TAPPED (NO SELF-TAPPING SCREWS ARE ALLOWED).
  7. ALL MOUNTING SCREWS SHALL BE STAINLESS STEEL.

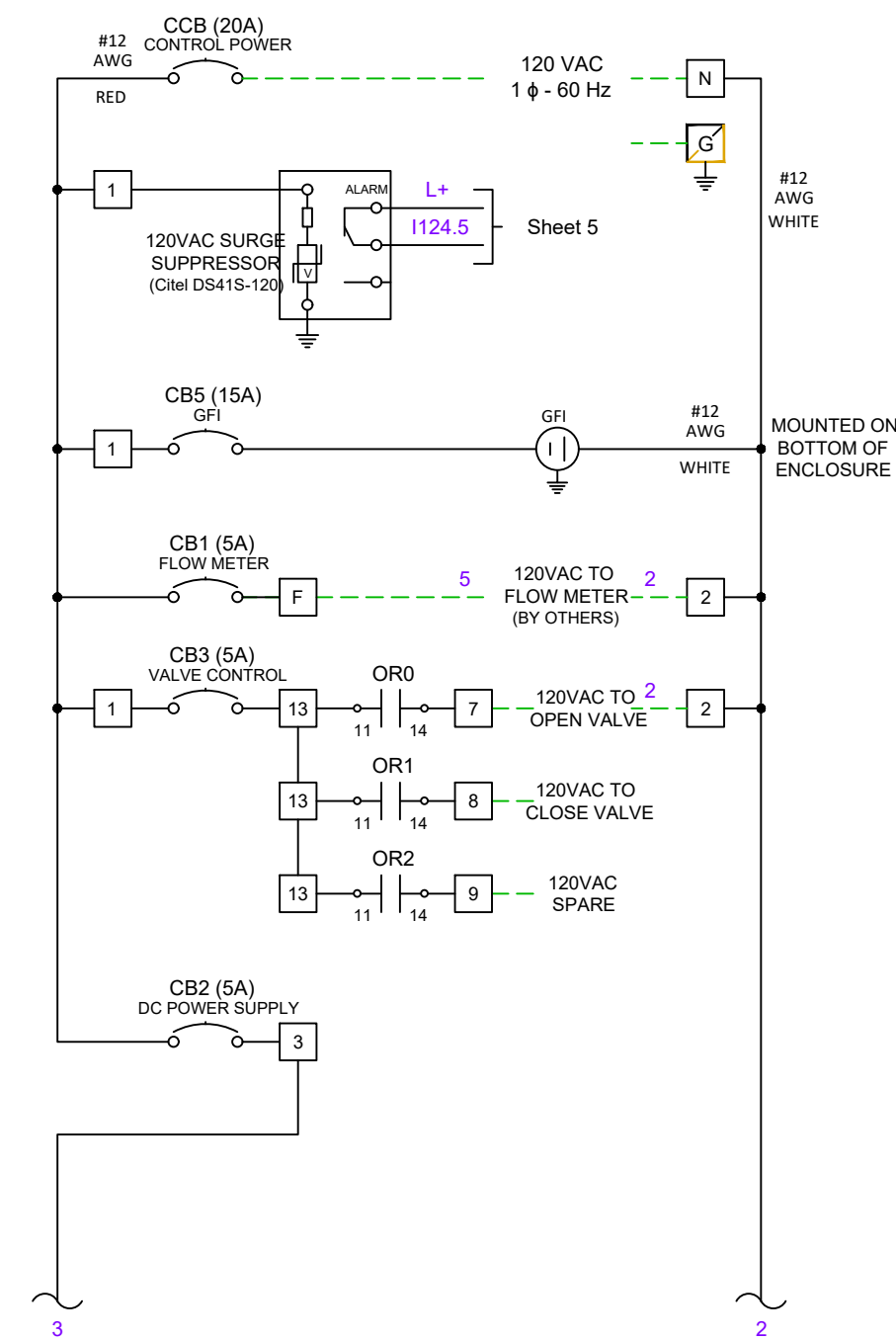
**CONTROL WIRE UL508A COLOR:**

RED - 120 VAC  
 WHITE - NEUTRAL  
 BLUE - +24 VDC  
 WHITE / BLUE STRIPE - 0 VDC

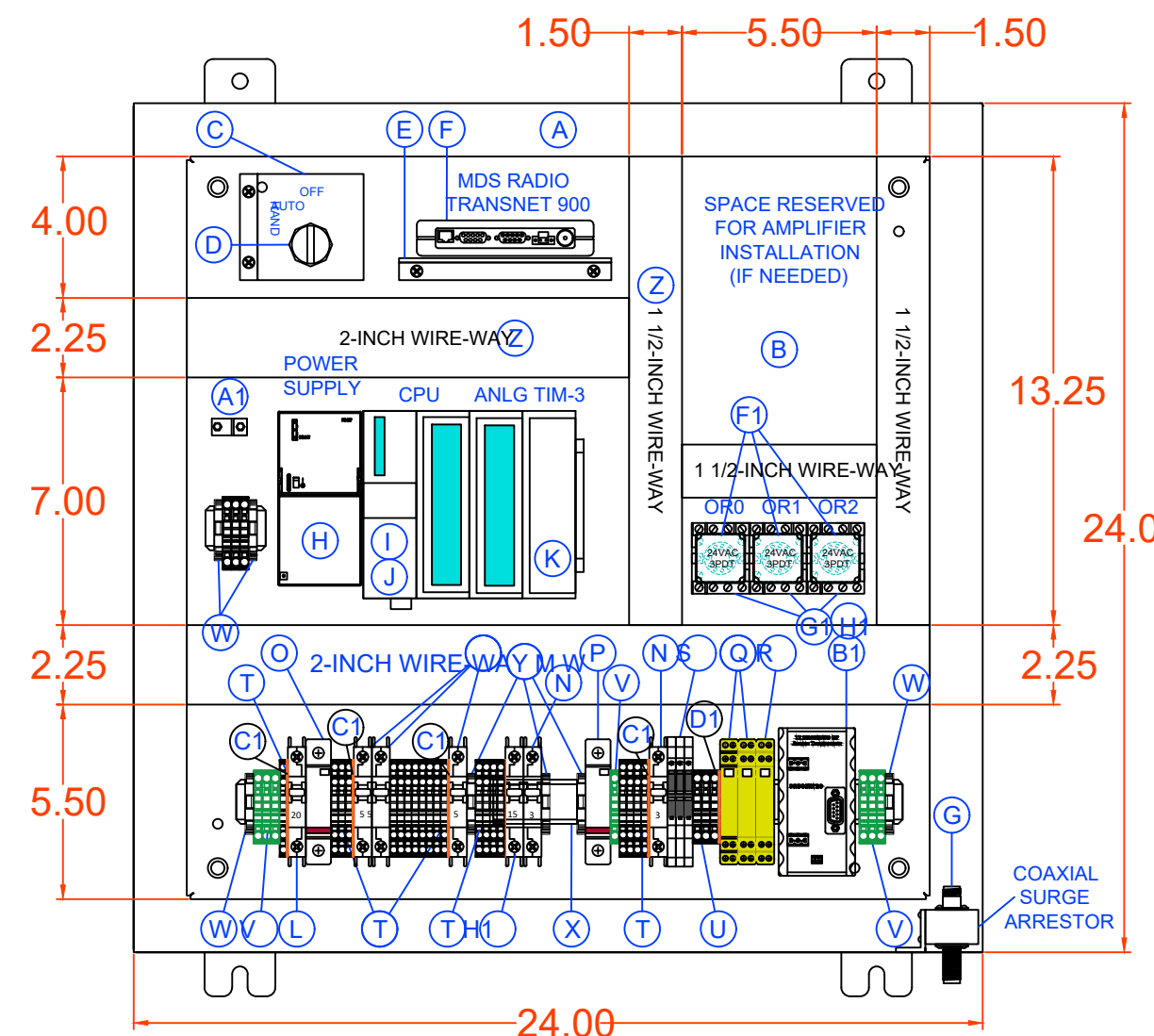
**DRAWING LAYER COLOR LEGEND:**

GREY - NOTES  
 BLACK - ELECTRICAL SCHEMATIC WIRING DIAGRAMS AND DEVICES  
 BLUE - PART IDENTIFICATION  
 PURPLE - WIRE NUMBERS  
 GREEN - FIELD DEVICES AND WIRING OUTSIDE ENCLOSURE (DASHED)  
 RED - FUTURE DEVICES AND WIRING  
 TEAL - DIMENSIONS

FRONT PANEL VIEW



120 VAC VOLTAGE



**ENCLOSURE:**  
 SPN12AL-242410-1532 (24"H x 24"W x 10"D) NEMA 12/3R RATED, FABRICATED FROM .125 MARINE GRADE ALUMINUM WITH WHITE POLYESTER POWDER COAT FINISH INSIDE AND OUT. OUTER DOOR HAS 3-POINT PADLOCKABLE HANDLE. ENCLOSURE HAS ALUMINUM SUNSHIELDS MOUNTED ON TOP, FRONT, AND BOTH SIDES, AND INCLUDES A DRIPSHIELD.

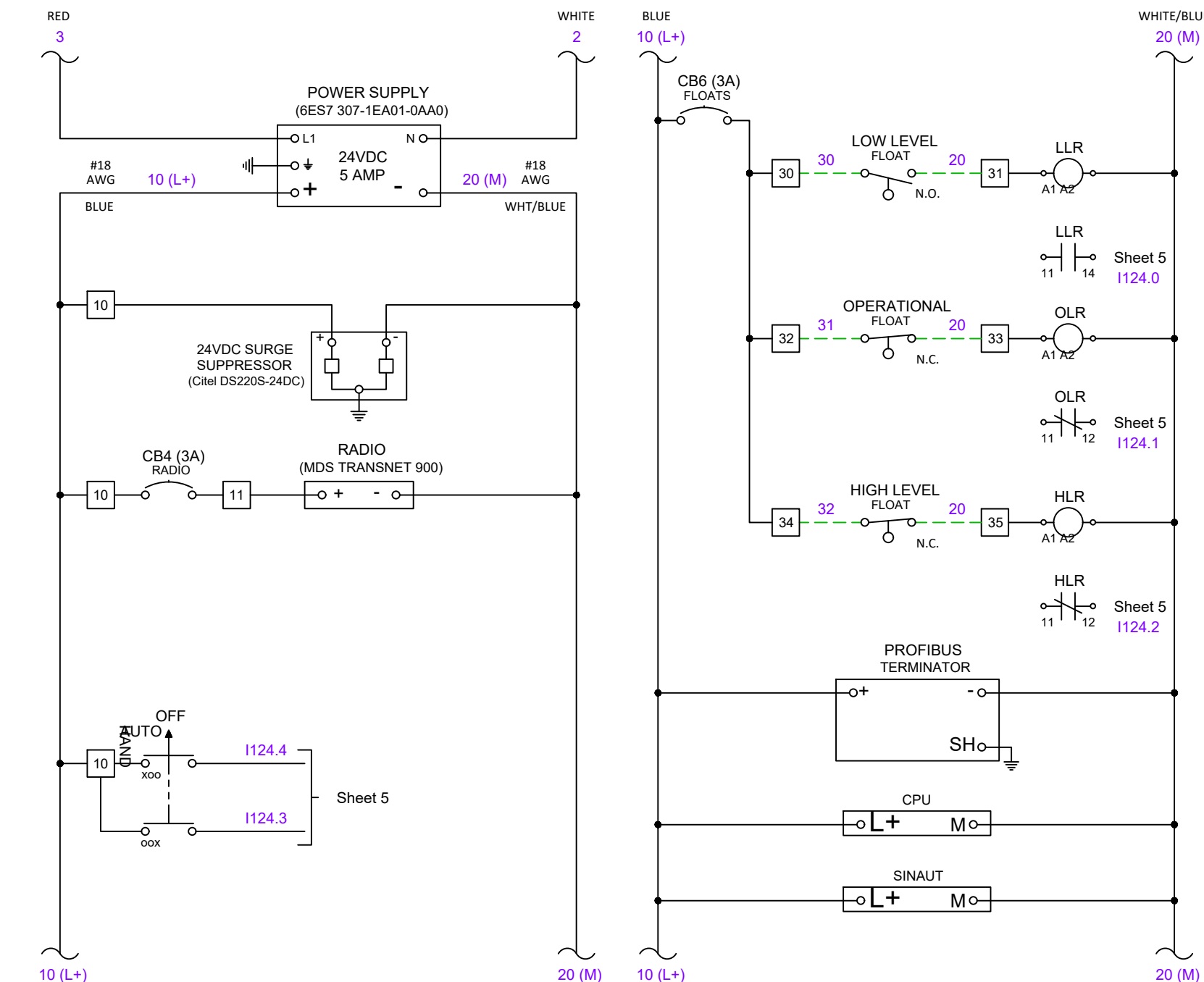
**BACK PANEL:**  
 SPP-2424 (21"H x 21"W) FABRICATED FROM 12 GA. CARBON STEEL WITH WHITE INDUSTRIAL GRADE ENAMEL FINISH.

REFER TO ENCLOSURE SPECIFICATIONS FOR FURTHER DETAILS.

BACK PANEL LAYOUT

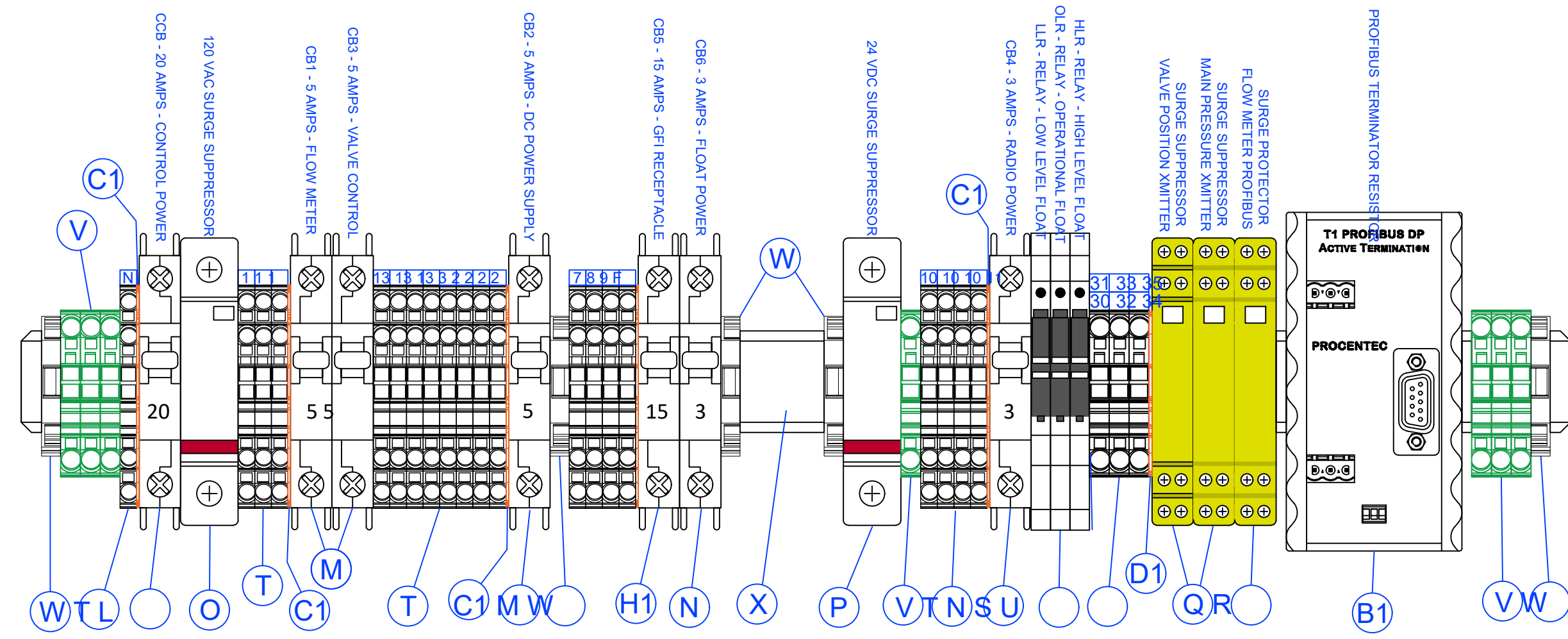
**BILL OF MATERIALS**

QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
A	SCHAEFER	SPN12AL-242410-1532	ENCLOSURE, NEMA 12/3R, ALUM. WHITE
B	SCHAEFER	SPP-2424	BACK PANEL, CARBON STEEL, WHITE
C	ECS	-	CUSTOM SWITCH BRACKET
D	1 SQUARE D	9001 SKS43B	3 POSITION SWITCH, 30mm, MAINTAINED
E	1 SQUARE D	9001 KA1	CONTACT BLOCK, 1 N.O. - 1 N.C.
F	ECS	-	CUSTOM RADIO BRACKET
F	MDS	TRANSNET 900	SPREAD-SPECTRUM RADIO
F	1 TIMES MICROWAVE	FPCTTS000026	EZ400NMHD N MALE LMR400
F	1 TIMES MICROWAVE	FPCTTS000005	CONNECTOR, TNC, MALE RA LMR400
G	POLYPHASER	FPPL1500002	ANTENNA, COAXIAL SURGE ARRESTOR
H	SIEMENS	6ES7 307-1EA01-0AA0	24VDC POWER SUPPLY, 5 AMP
I	1 SIEMENS	6ES7 313-6CG04-0AA0	PLC, CPU313C-2 DP 16 DI - 16 DO
I	1 SIEMENS	6ES7 953-6L31-0AA0	MMC MEMORY CARD, 128KB
I	1 SIEMENS	6ES7 331-1KF02-0AB0	ANALOG INPUT MODULE, 8 CHANNEL
I	2 SIEMENS	6ES7 392-1BM01-0AA0	40-PIN SCREW CONNECTOR
I	1 SIEMENS	6ES7 390-1AE80-0AA0	480mm MOUNTING RAIL FOR PLC
J	1 MOLEX	1201 030 001 (PA9001-4)	PROFIBUS CONNECTOR, 90-DEGREE
K	1 SIEMENS	6NH7 800-3BA00	SINAUT S77 MODULE, TIM 3V-IE
L	1 TFS, INC (Note 1)	9-PIN / 25-PIN RS232	CABLE SINAUT TO RADIO NULL CABLE
M	1 PHOENIX CONTACT	2907573	CB, 1 POLE, 20A, BRANCH RATED, UL489
M	1 PHOENIX CONTACT	2907562	CB, 1 POLE, 5A, BRANCH RATED, UL489
N	2 PHOENIX CONTACT	2907560	CB, 1 POLE, 3A, BRANCH RATED, UL489
O	1 CITEL	DS415-120	120VAC SURGE SUPPRESSOR
P	1 CITEL	DS2005-24DC	24VDC SURGE SUPPRESSOR
Q	2 CITEL	DLAW0403	ANALOG SURGE SUPPRESSOR
R	1 CITEL	DLA-06D3	PROFIBUS SURGE PROTECTOR
S	3 FINDER	4CP190245050	RELAY, 24VDC, INDICATOR, SCREW
T	20 WAGO	2002-1401	TERMINAL, SINGLE, SCREW, BEIGE
U	3 WAGO	2002-2201	TERMINAL, DOUBLE, SCREW, BEIGE
V	8 WAGO	2002-1207	TERMINAL, GROUND, SCREW, GRN / YEL
W	4 WAGO	249-116	TERMINAL END RETAINER, BEIGE
X	1 WEIDMULLER	0514 50 0000	DIN RAIL, GALVANIZED, SLOTTED
Y	1 HUBBELL	GFWRST20W	DUPLEX GFCI RECEPTACLE, 20 AMP
Z	1 PANDUIT	H2XL2L06 1H1 5X2L06	WIRE-WAY, HINGED COVER, WIDE FINGER
A1	1 PANDUIT	LAMA2-14-QY	GROUND LUG, DUAL RATED, #2-14 AWG
B1	1 PROCENTEC	101-00211A	PROFIBUS TERMINATOR RESISTOR
C1	1 WAGO	2002-1492	TERMINAL END / PARTITION PLATE
D1	1 WAGO	2002-2292	TERMINAL END / PARTITION PLATE
E1	1 SQUARE D	RUMC32BD	RELAY, 24VDC, INDICATOR, SCREW
F1	1 SQUARE D	RU2SC3M	RELAY BASE, PLUG-IN, 11 PIN
G1	1 SQUARE D	RUW241P7	RC CIRCUIT, 110-240VAC
H1	1 PHOENIX CONTACT	2907571	CB, 1 POLE, 15A, BRANCH RATED, UL489

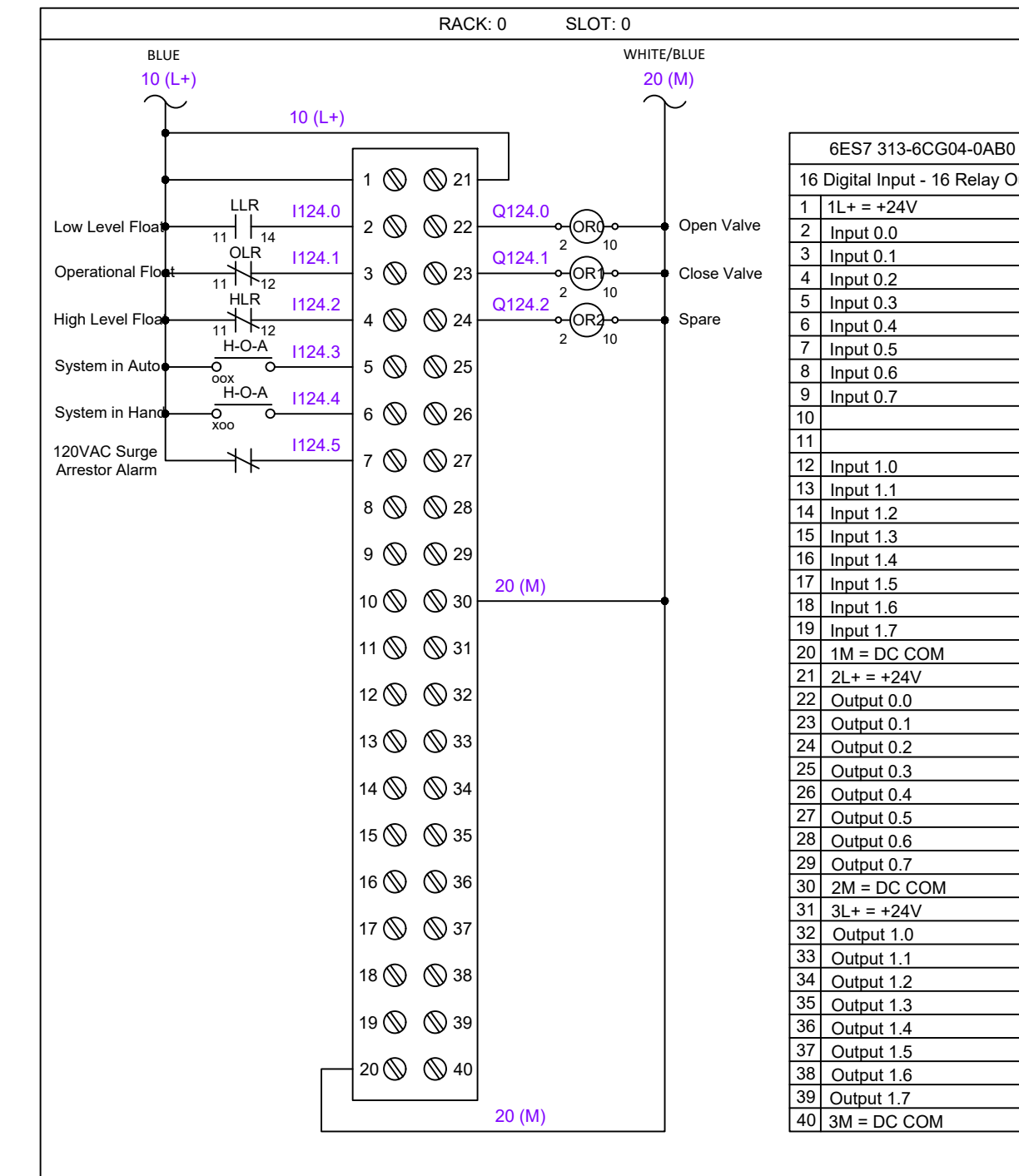


24 VDC VOLTAGE

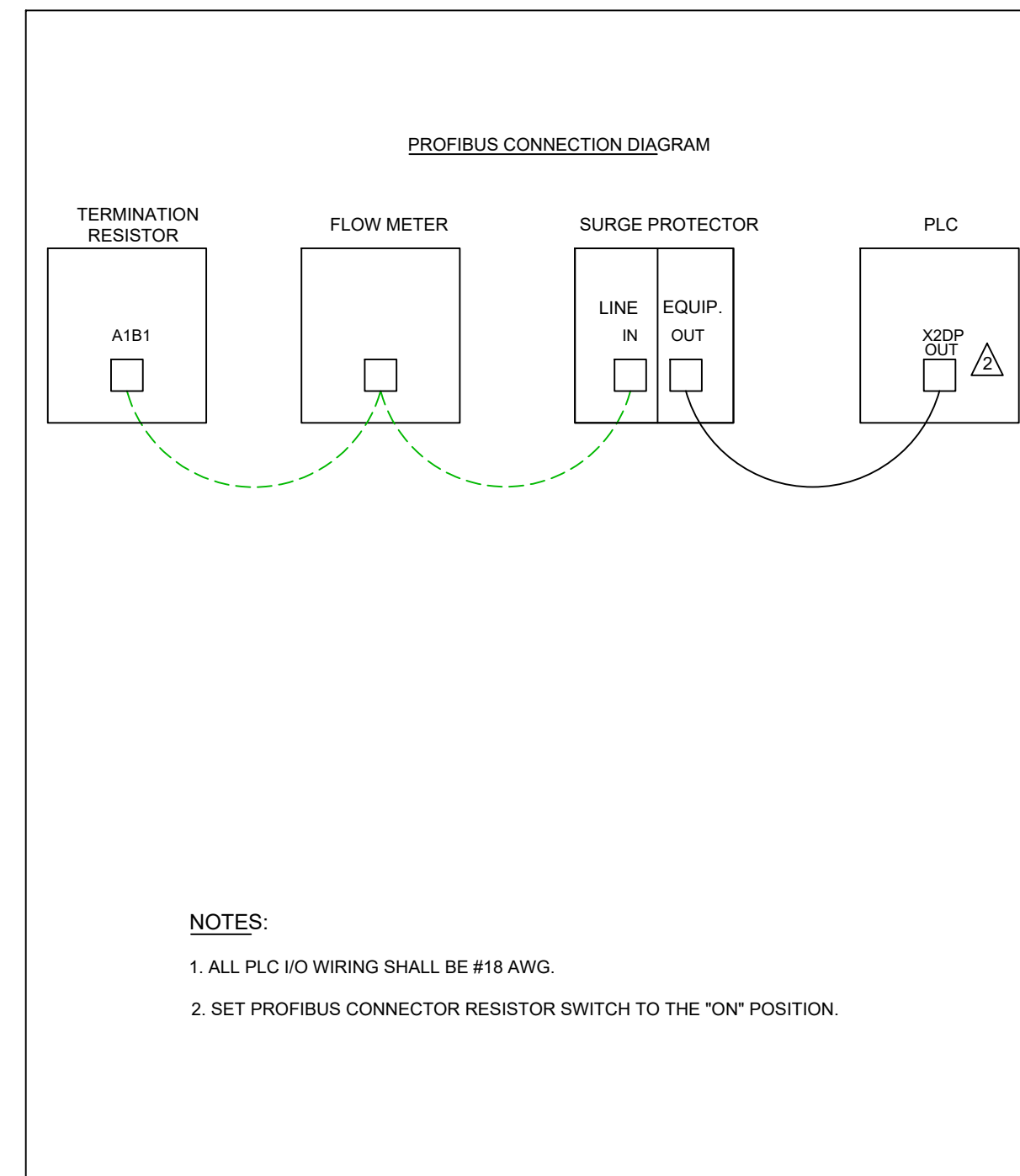
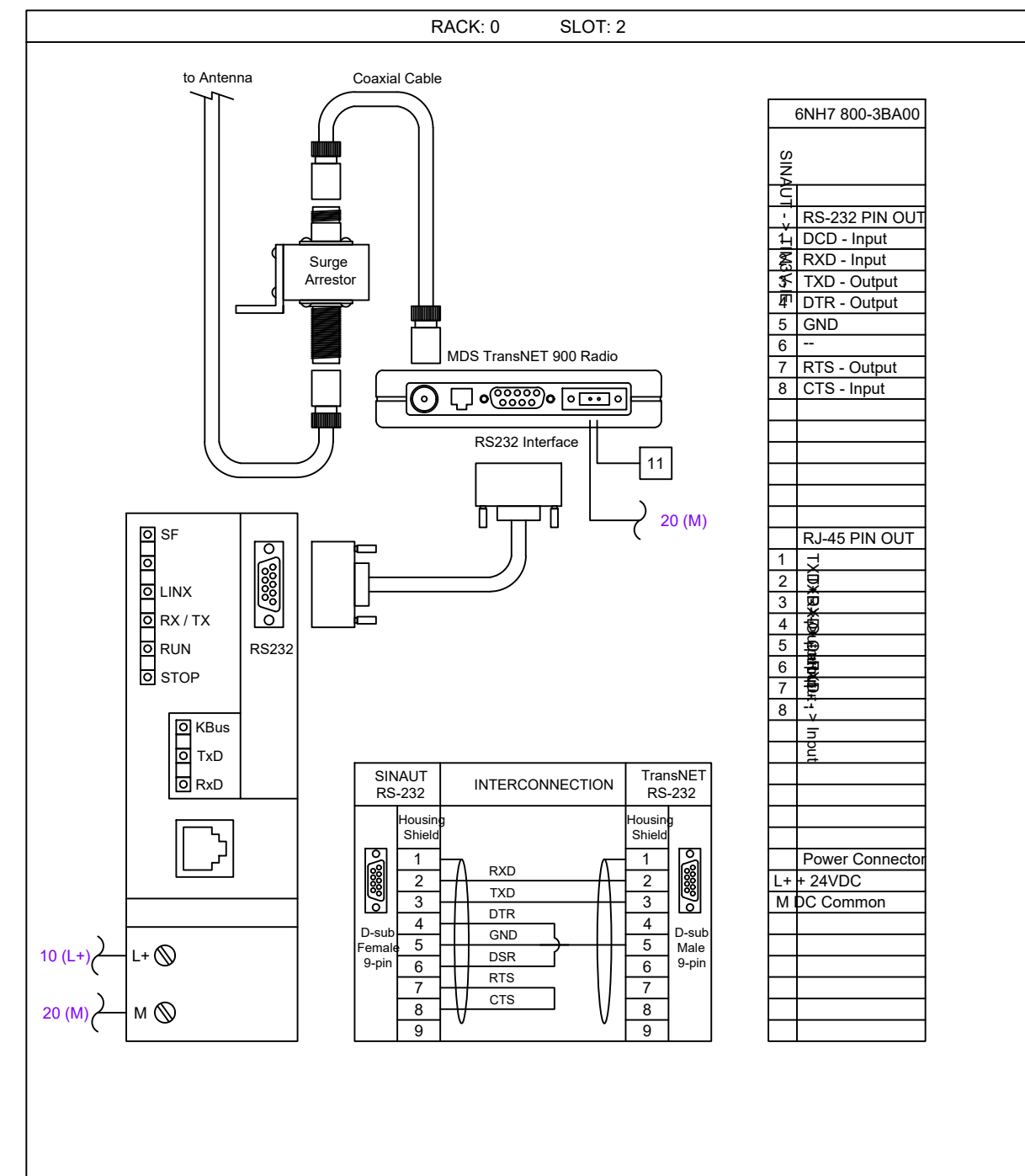
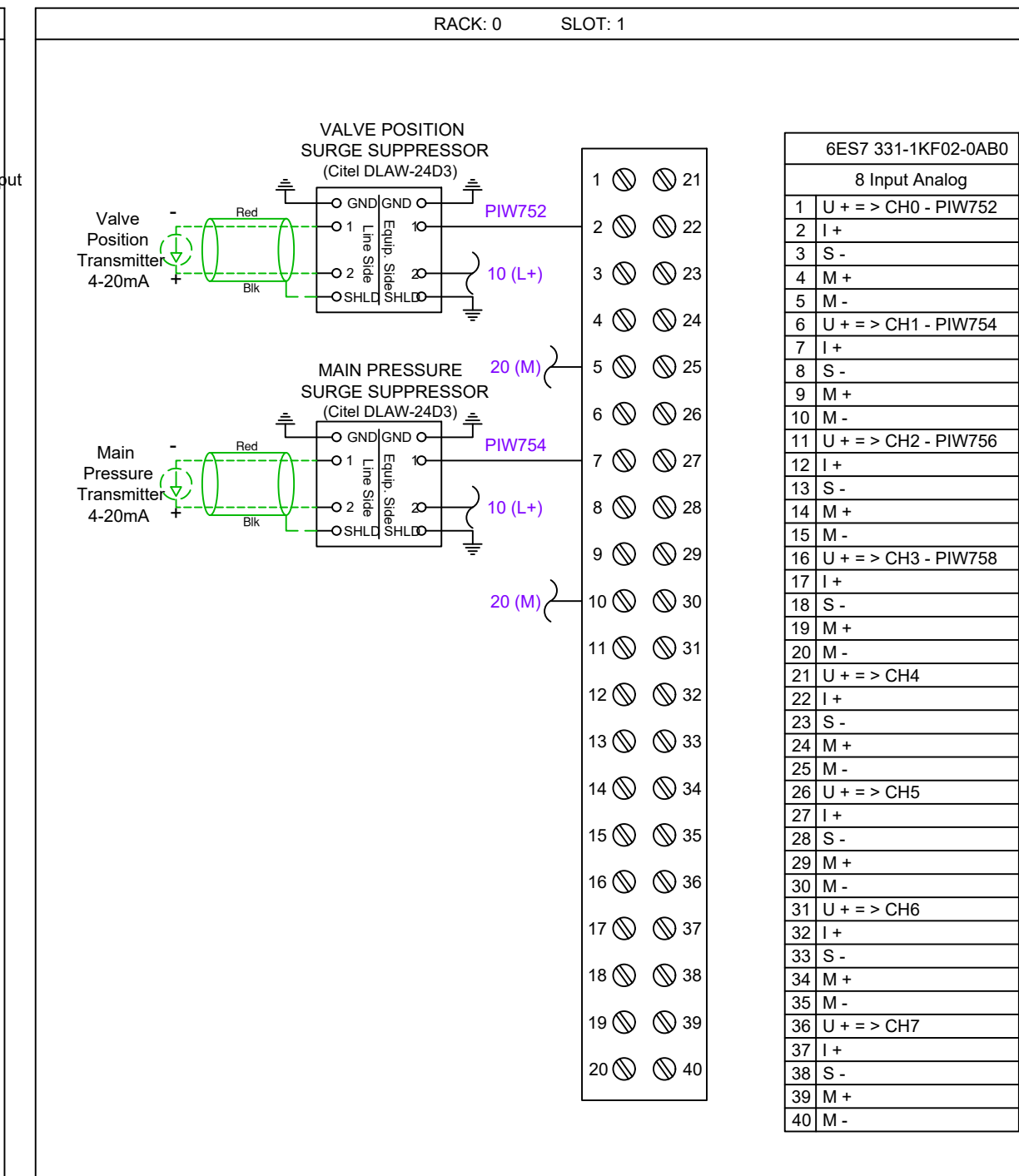
NO.	SHEETS	PROJ. NO.	DATE:	SCALE:	NTS	DESIGNER:		CHECKED BY:		FLORIDA REGISTRATION NO.	
						NO.	BY	NO.	BY	NO.	BY
2	3		JANUARY 2020								
<b>JEA STANDARD</b> <b>RECLAIMED WATER DELIVERY STATION DETAILS</b> <b>ELECTRICAL SCHEMATIC</b>											



TERMINAL BLOCK LAYOUT



PLC INPUT - OUTPUT



- NOTES:
1. ALL PLC I/O WIRING SHALL BE #18 AWG.
  2. SET PROFIBUS CONNECTOR RESISTOR SWITCH TO THE 'ON' POSITION.

PLC LAYOUT & CONNECTION

NO. SHEETS		PROJ. NO.		DESIGNER		REVISIONS	
3	3						
SHEET NO.		DATE:		DRAWN BY:		DATE:	
3		JANUARY 2020					
DRAWING NO.		SCALE:		CHECKED BY:		DATE:	
		NTS					
				DESIGN ENGINEER			
				FLORIDA REGISTRATION NO.			
				DATE:			
				DATE:			
				DATE:			



JEA STANDARD  
RECLAIMED WATER DELIVERY STATION DETAILS  
ELECTRICAL SCHEMATIC