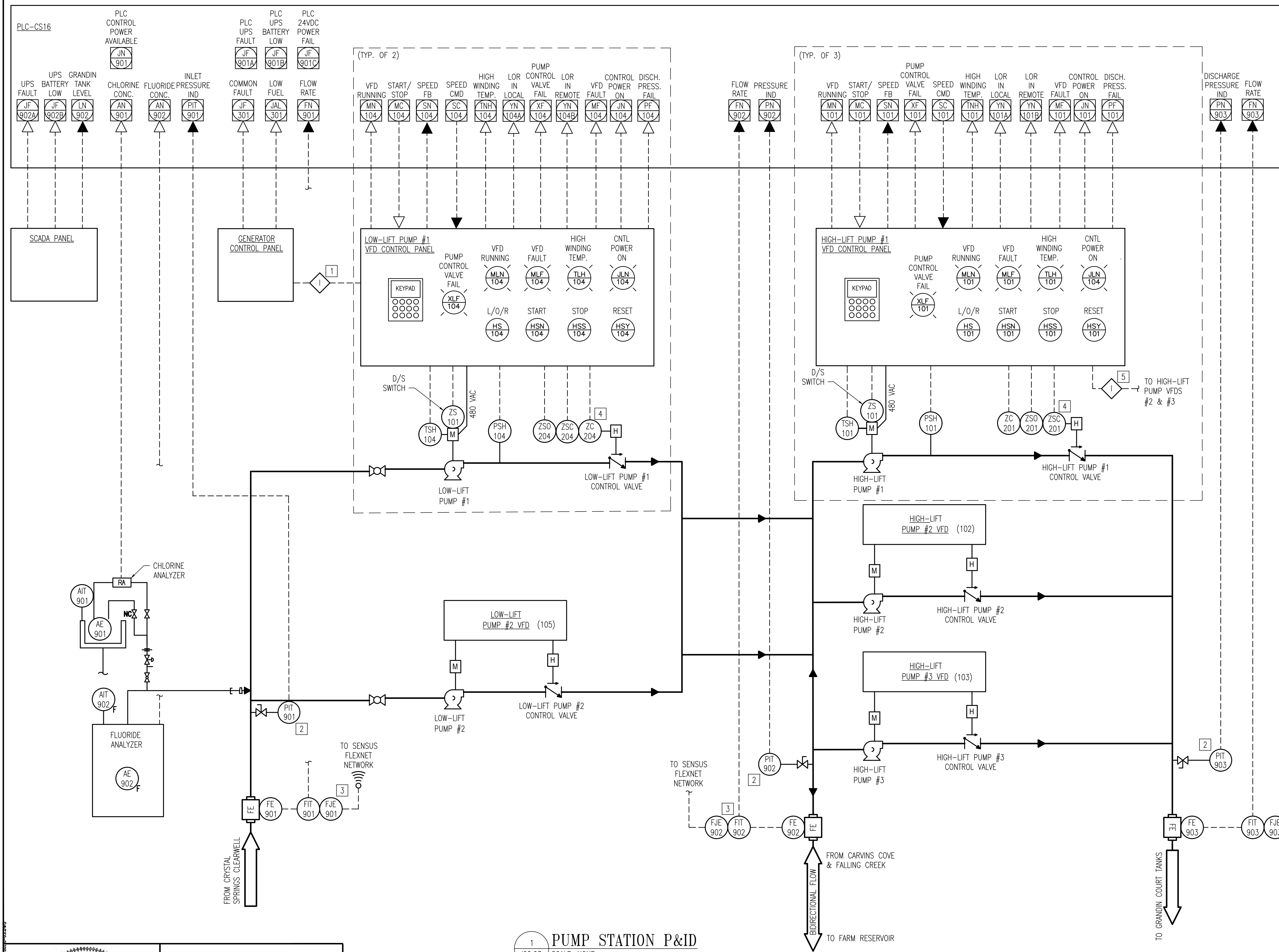




## GENERAL SHEET NOTES

- SEE I&C SYMBOLS, LEGENDS AND ABBREVIATIONS SHEETS FOR DETAILS.
- P&ID SHOWN TO INDICATE CONTROL SYSTEM REQUIREMENTS AND DOES NOT REPRESENT A COMPLETE REFLECTION OF ALL PROCESS REQUIREMENTS. SEE MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR ADDITIONAL INSTALLATION, LOCATIONS, AND EQUIPMENT REQUIREMENTS.
- NOT ALL REQUIRED I/O SHOWN FOR CLARITY.

## SHEET KEYNOTES

- GENERATOR RUN STATUS SHALL BE HARDWIRED INTERLOCKED WITH LOW-LIFT VFD START CONTROL. REFER TO VFD CONTROL DIAGRAM FOR DETAILS.
- PROVIDE MANUFACTURER'S STANDARD 3-VALVE BLOCK AND BLEED MANIFOLD FOR PRESSURE TRANSMITTERS.
- SENSUS FLEXNET SMARTPOINT LOCATED IN METERING VAULT.
- NORMALLY CLOSED, POWER OPEN PUMP CONTROL VALVE SOLENOID VALVE.
- HIGH-LIFT PUMP VFDS ARE HARDWIRED INTERLOCKED. REFER TO VFD CONTROL DIAGRAM FOR DETAILS.

1 PUMP STATION P&ID  
100.03 SCALE: NONE



WESTERN VIRGINIA WATER AUTHORITY  
601 South Jefferson Street, Suite 300  
Roanoke, Virginia 24011

DES: CRM  
DRAWN: CRM  
CHECK: PWG  
DATE: 1/24/20

SCALE: NOT TO SCALE  
HORIZ: N/A  
VERT: N/A

CRYSTAL SPRING  
PUMP STATION RELOCATION

PROCESS AND INSTRUMENTATION DIAGRAM

DRAWING

10.03

SHEET

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