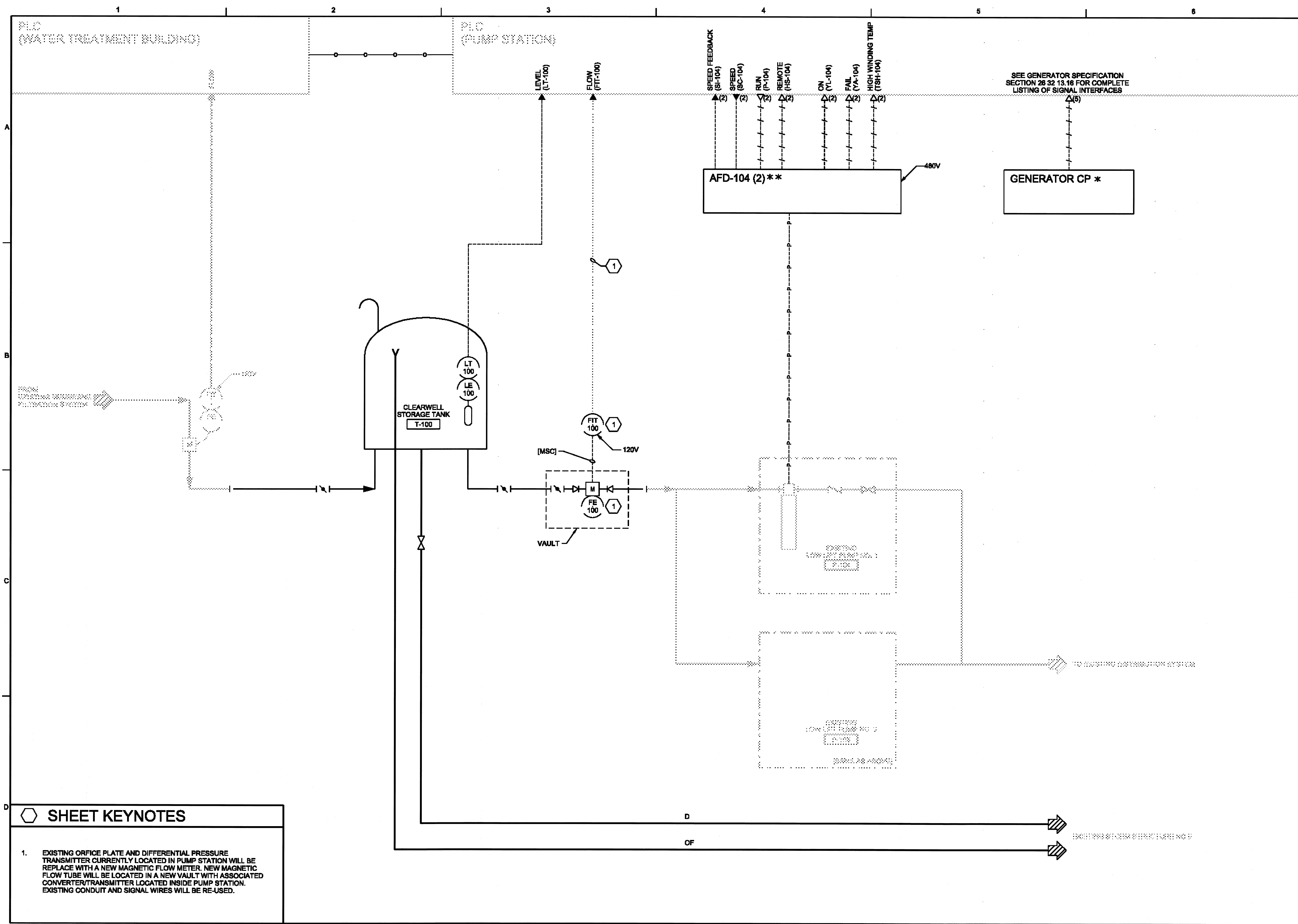




- SHEET KEYNOTES**
- EXISTING ORFICE PLATE AND DIFFERENTIAL PRESSURE TRANSMITTER CURRENTLY LOCATED IN PUMP STATION WILL BE REPLACE WITH A NEW MAGNETIC FLOW METER. NEW MAGNETIC FLOW TUBE WILL BE LOCATED IN A NEW VAULT WITH ASSOCIATED CONVERTER/TRANSMITTER LOCATED INSIDE PUMP STATION. EXISTING CONDUIT AND SIGNAL WIRES WILL BE RE-USED.

CH2MHILL

INSTRUMENTATION AND CONTROL

P&ID

CRYSTAL SPRING WATER TREATMENT PLANT

CLEARWELL REPLACEMENT

WESTERN VIRGINIA WATER AUTHORITY

CITY OF ROANOKE, VIRGINIA

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CONSTRUCTION DOCUMENTS

DATE: JUNE 2014

PROJ: 475481

DWG: I-8001

SHEET: 37 of 37

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1"

PLC (WATER TREATMENT BUILDING)

PLC (PUMP STATION)

LEVEL (LT-100)

FLOW (FIT-100)

SPEED FEEDBACK (SI-104)

SPEED (SC-104)

RUN (R-104)

REMOTE (RS-104)

ON (YL-104)

FAIL (YA-104)

HIGH WINDING TEMP (TSH-104)

AFD-104 (2)**

480V

GENERATOR CP *

SEE GENERATOR SPECIFICATION SECTION 28.32.13.16 FOR COMPLETE LISTING OF SIGNAL INTERFACES

NO.

DATE

DSGN

DR

CHK

REVISION

BY

APVD

RONALD E. BAKER

U.C. NO. 019826

7/1/14

PROFESSIONAL ENGINEER

J. ALEN

R. BAKER

J.C. HALE

A. SODEFI

FILENAME: I-8001_475481.dgn PLOT DATE: 2014/07/01 PLOT TIME: 3:27:23 PM