

HEATING HOT WATER SYSTEM SEQUENCE OF OPERATION:

A. GENERAL:

- 1. THE SEQUENCE DESCRIBES THE GENERAL INTENT OF THE CONTROL SYSTEM...
2. UNLESS OTHERWISE NOTED, SIZE ALL AUTOMATIC CONTROL VALVES FOR MAXIMUM TEN (10) FEET WATER PRESSURE DROP...
3. ALL PUMPS SHALL BE PROVIDED WITH DIFFERENTIAL PRESSURE SENSOR INSTALLED AROUND THE PUMP...
4. ALL TEMPERATURE, PRESSURE, AND TIME SET POINTS SHALL BE FULLY ADJUSTABLE FROM THE BUILDING MANAGEMENT SYSTEM (BMS)...

B. BOILER CONTROL:

- 1. BOILER B-1 SHALL OPERATE VIA THE FACTORY PROVIDED COMMON BOILER CONTROL SYSTEM PANEL (BCP)...
2. BOILER SHALL BE CONTROLLED LOCALLY BY "START-STOP" SWITCH OR VIA THE BMS...
3. WHEN START-STOP SWITCH IS IN THE START POSITION AND THE BMS IS CALLING FOR BOILER OPERATION...
4. LOSS OF FLOW THROUGH THE BOILER SHALL DE-ENERGIZE THE BOILER...
5. TEMPERATURE SENSORS II-1 AND II-2 IN HVAC HEATING HOT WATER PIPING SHALL PROVIDE CONTINUOUS TEMPERATURE INDICATION...
6. IF START-STOP SWITCH IS SWITCHED TO THE STOP POSITION OR THE BMS IS TERMINATING OPERATION OF THE BOILER...
7. THE BCP SHALL DETERMINE THE MOST EFFICIENT BOILER(S) FIRING OPERATION...

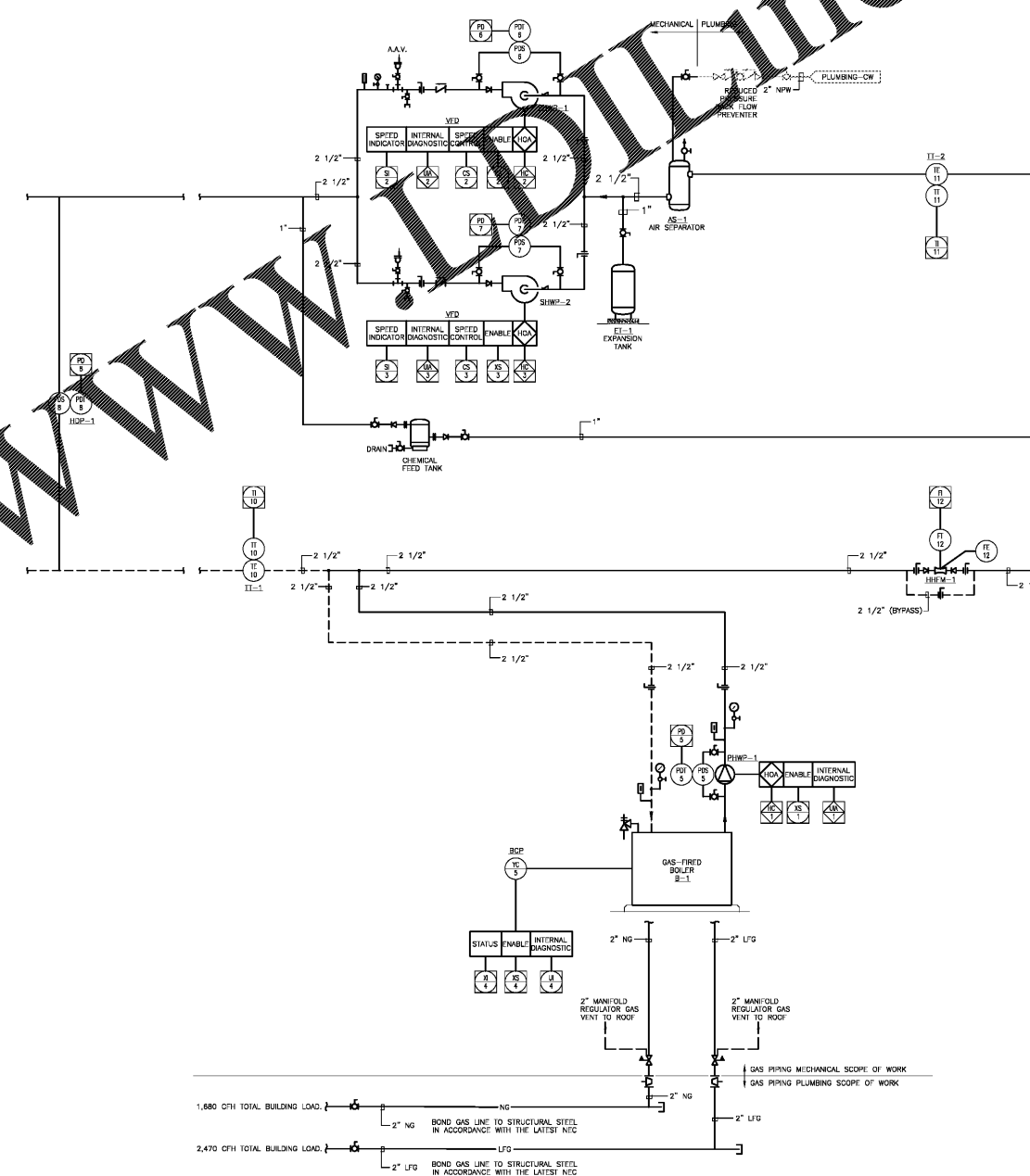
C. HEATING HOT WATER SYSTEM SECONDARY DISTRIBUTION PUMP OPERATION:

- 1. HVAC HEATING HOT WATER SECONDARY DISTRIBUTION PUMPS SHWP-1 AND SHWP-2 SHALL BE STARTED MANUALLY OR THROUGH THE BMS...
2. THE LEAD PUMP VFD SHALL MODULATE PUMP SPEED TO MAINTAIN THE DOWNSTREAM DIFFERENTIAL PRESSURE SETPOINT...
3. AUTOMATIC BYPASS VALVE SBV-1 SHALL MODULATE OPEN AS REQUIRED TO MAINTAIN A MINIMUM DIFFERENTIAL SET POINT...

D. BOILER FUEL SYSTEMS:

- 1. THE BOILER MANAGEMENT CONTROL SYSTEM SHALL CONTROL ALL FUNCTIONS OF MANUFACTURER SUPPLIED GAS TRAIN...
2. THE BOILER SHALL OPERATE ON LANDFILL GAS. UPON LOSS OF PRESSURE, THE BOILER SHALL AUTOMATICALLY SWITCH TO NATURAL GAS.

INPUT/OUTPUT SUMMARY table with columns for POINT NO., SYSTEM APPARATUS OR AREA POINT DESCRIPTION, and various input/output categories like ANALOG MEASURED, ANALOG CALC, BINARY, etc.



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