

GENERAL NOTES

1. PROVIDE MANUAL AIR VENT AT EACH HIGH POINT IN SYSTEM.
2. PROVIDE DRAIN AT EACH LOW POINT. SEE DRAWING # 23 21 13-02.
3. ALL THREADED STEEL PIPE NIPPLES SHALL BE SCHED. 80

EXPANSION TANK CHARGING PROCEDURE:

1. ENSURE THAT SYSTEM FLUID IS ROOM TEMPERATURE
2. ENSURE THAT ALL AIR IS VENTED FROM SYSTEM
3. CLOSE VALVE BETWEEN EXPANSION TANK AND SYSTEM
4. OPEN VENT/DRAIN VALVE AT EXPANSION TANK
5. ADJUST AIR PRESSURE TO █ PSIG.
6. CLOSE DRAIN/VENT VALVE AT TANK
7. OPEN VALVE BETWEEN EXPANSION TANK AND SYSTEM

BLOW - DOWN PROCEDURE FOR AIR/ DIRT SEPARATOR:

1. CLOSE VALVE V-1
2. OPEN VALVES V-2 AND V-3
3. THROTTLE VALVE V-4
4. DO NOT EXCEED 15 PSIG ACROSS BAG FILTER
5. CLEAN BAG FILTER AS REQUIRED
6. RETURN VALVES TO ORIGINAL POSITIONS

NOTES TO A/E:

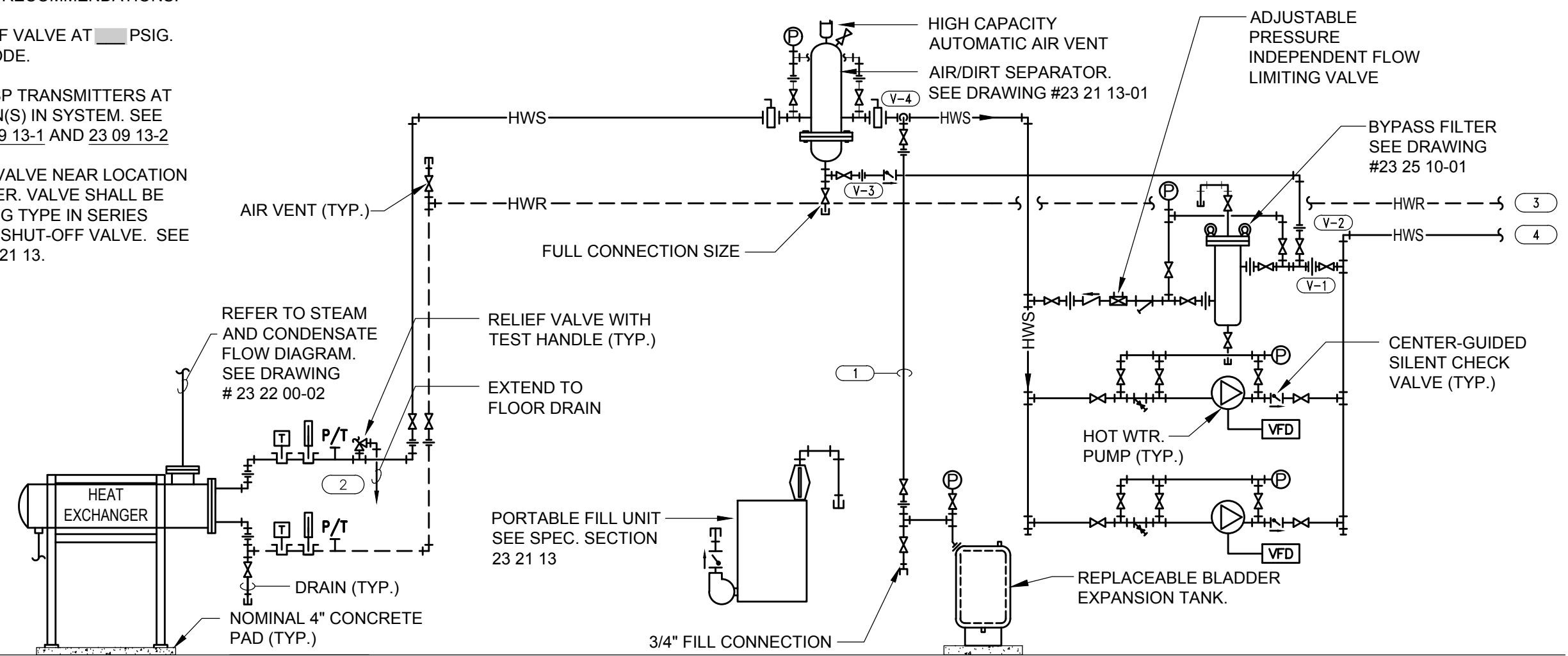
PROVIDE PRESSURE SETTING FOR
 - RELIEF VALVE (E.G. 50 PSIG)

PROVIDE AIR PRESSURE SETTING FOR EXPANSION
 TANK (E.G. HEIGHT OF SYSTEM ABOVE TANK
 CONVERTED TO PSI PLUS 10 PSIG.)

SIZE EXPANSION TANK 20% LARGER THAN
 STANDARD CALCULATED VOLUME.

KEYNOTES #

1. CONNECT EXPANSION TANK PIPING TO
 SIDE OF MAIN. SIZE PIPING PER
 MANUFACTURER'S RECOMMENDATIONS.
2. SET SAFETY RELIEF VALVE AT █ PSIG.
 SIZE PER ASME CODE.
3. PROVIDE DP AND SP TRANSMITTERS AT
 REMOTE LOCATION(S) IN SYSTEM. SEE
 DRAWINGS # 23 09 13-1 AND 23 09 13-2
4. PROVIDE BYPASS VALVE NEAR LOCATION
 OF DP TRANSMITTER. VALVE SHALL BE
 MANUAL BALANCING TYPE IN SERIES
 WITH AUTOMATED SHUT-OFF VALVE. SEE
 SPECIFICATION 23 21 13.



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FLOW DIAGRAM - HOT WATER HEATING SYSTEM

NOT TO SCALE

23 21 00-01