KEYNOTES

1. PRESSURE GAUGE WITH SNUBBER. INSTALL WITH MOUNTING ON WALL OR STAND. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE:
   (1) JUST UPSTREAM OF STRAINER.
   (2) GAUGE TAPPING ON PUMP INLET FLANGE.
   (3) GAUGE TAPPING ON PUMP OUTLET FLANGE.

2. SIZE PER BLADDER TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.

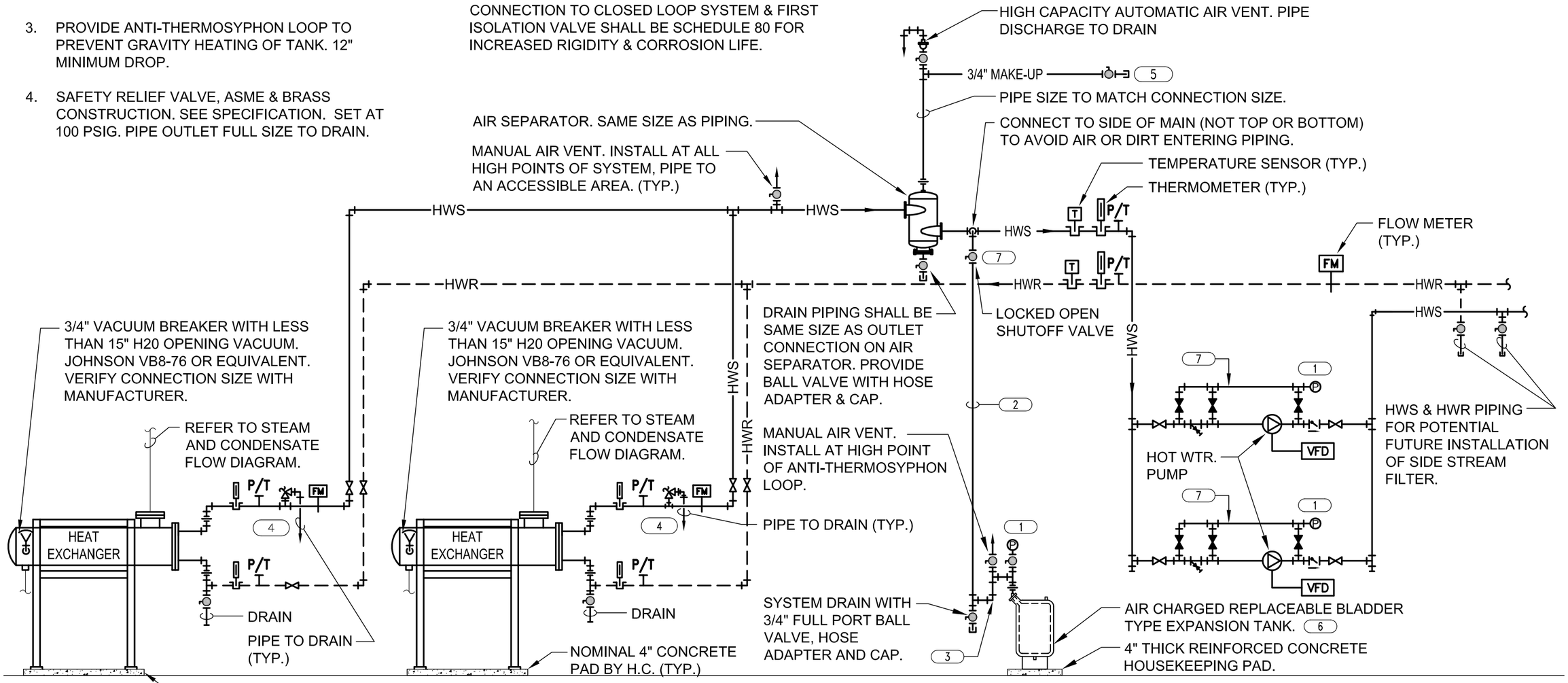
3. PROVIDE ANTI-THERMOSYPHON LOOP TO PREVENT GRAVITY HEATING OF TANK. 12" MINIMUM DROP.

4. SAFETY RELIEF VALVE, ASME & BRASS CONSTRUCTION. SEE SPECIFICATION. SET AT 100 PSIG. PIPE OUTLET FULL SIZE TO DRAIN.

5. 3/4" CW MAKE-UP WATER PIPING TO HEATING WATER SYSTEM. PROVIDE 3/4" NORMALLY CLOSED THREADED BALL VALVE WITH HOSE ADAPTER & CAP. ROUTE CONNECTION POINT TO A POINT NO HIGHER THAN FIVE FEET (5') A.F.F. IN MECHANICAL ROOM.

6. H.C. SHALL COORDINATE AND VERIFY INITIAL TANK CHARGE WITH UNIVERSITY FILL SYSTEM.

7. WHEN CLOSED LOOP SYSTEM IS CONSTRUCTED OF BLACK STEEL PIPING, ALL THREADED NIPPLES/PIPING BETWEEN EACH POINT OF CONNECTION TO CLOSED LOOP SYSTEM & FIRST ISOLATION VALVE SHALL BE SCHEDULE 80 FOR INCREASED RIGIDITY & CORROSION LIFE.



FLOW DIAGRAM - HOT WATER HEATING SYSTEM

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NOT TO SCALE

23 21 00-1

Date: June 8, 2010
Dwg. No.: 23 21 00-1

FLOW DIAGRAM - HOT WATER HEATING SYSTEM

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN FACILITIES STANDARDS