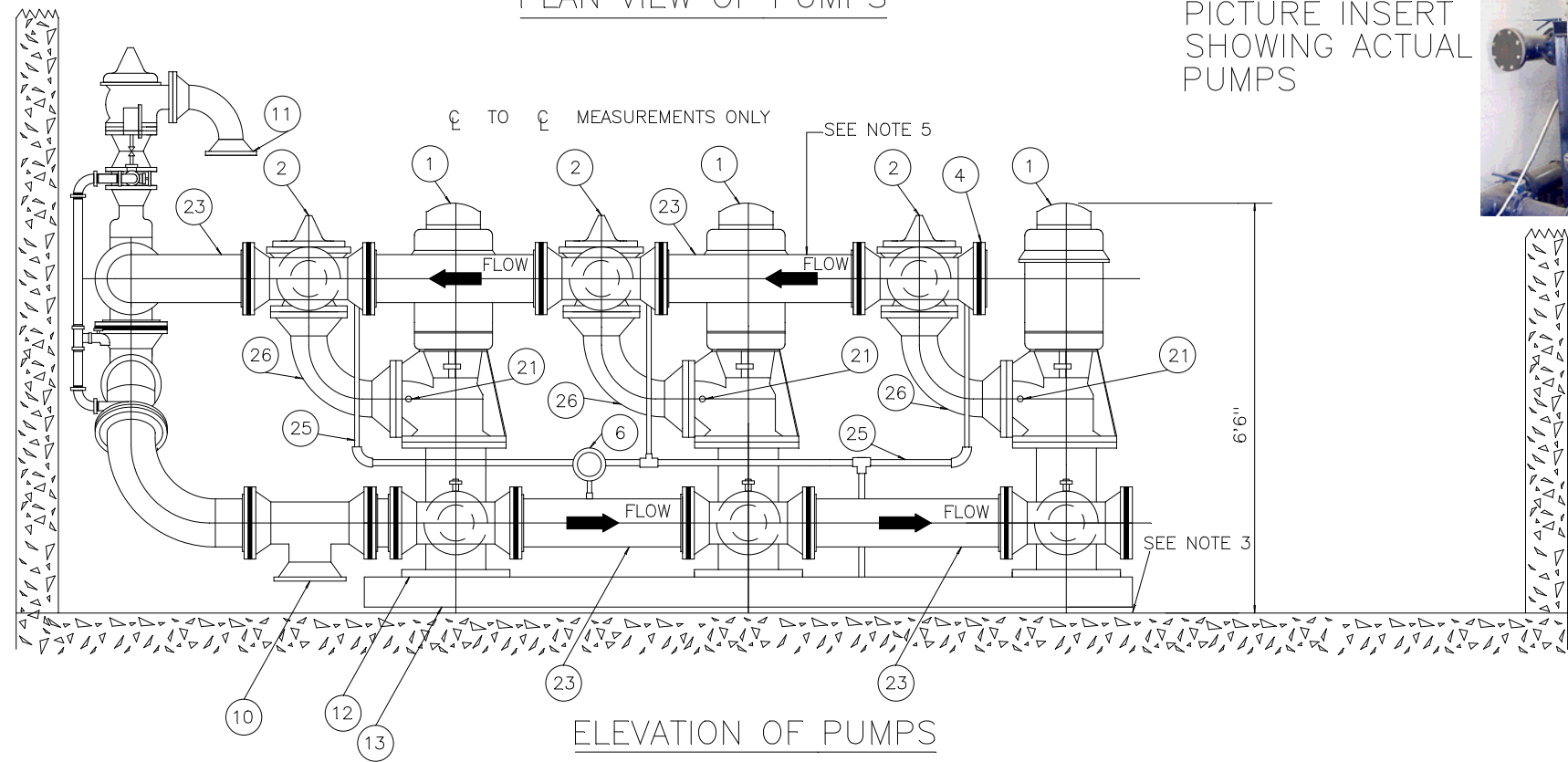


PLAN VIEW OF PUMPS

PICTURE INSERT
SHOWING ACTUAL
PUMPS



ELEVATION OF PUMPS

- ① VT – PUMP MODEL 8L2 WITH 40 IP, 3Ø, 60°, 460VAC MOTOR
- ② 6" PRESSURE REGULATING VALVE
- ③ 6" CHECK VALVE
- ④ 8" BLIND FLANGE–150LBS.
- ⑤ 6" BUTTERFLY VALVE
- ⑥ PRESSURE GAUGE 0 – 150 PSIG
- ⑦ PRESSURE GAUGE 0 – 300 PSIG (3 PUMP GAUGES NOT SHOWN)
- ⑧ 4" SURGE RELIEF VALVE
- ⑨ 4" BUTTERFLY VALVE
- ⑩ 8" FLANGE 150LBS.
- ⑪ 4" FLANGE 150LBS.
- ⑫ PUMP VIBRATION DAMPENING PADS (4 EA PUMP)
- ⑬ SKID BASE
- ⑭ 1 1/2" Y TYPE STRAINER
- ⑮ 6" Y TYPE STRAINER (UNCAPPED)
- ⑯ 1 1/2" PRESSURE REGULATING VALVE
- ⑰ 1 1/2" UNION
- ⑱ 1 1/2" SOLENOID VALVE
- ⑲ 1 1/2 x 1/2 x 1 1/2 TEE WITH 1/2 HOSE BIBB
- ⑳ 1 1/2" GATE VALVE
- ㉑ 1/4" TEMPERATURE PROBE
- ㉒ 1/2" PURGE VALVE
- ㉓ 8" SCHEDULE 40 PIPING
- ㉔ 1 1/2" SCHEDULE 40 PIPING
- ㉕ 3/4" SCHEDULE 40 PIPING
- ㉖ 6" SCHEDULE 40 PIPING
- ㉗ 4" SCHEDULE 40 PIPING

115 V. ELECTRICAL CONNECTIONS

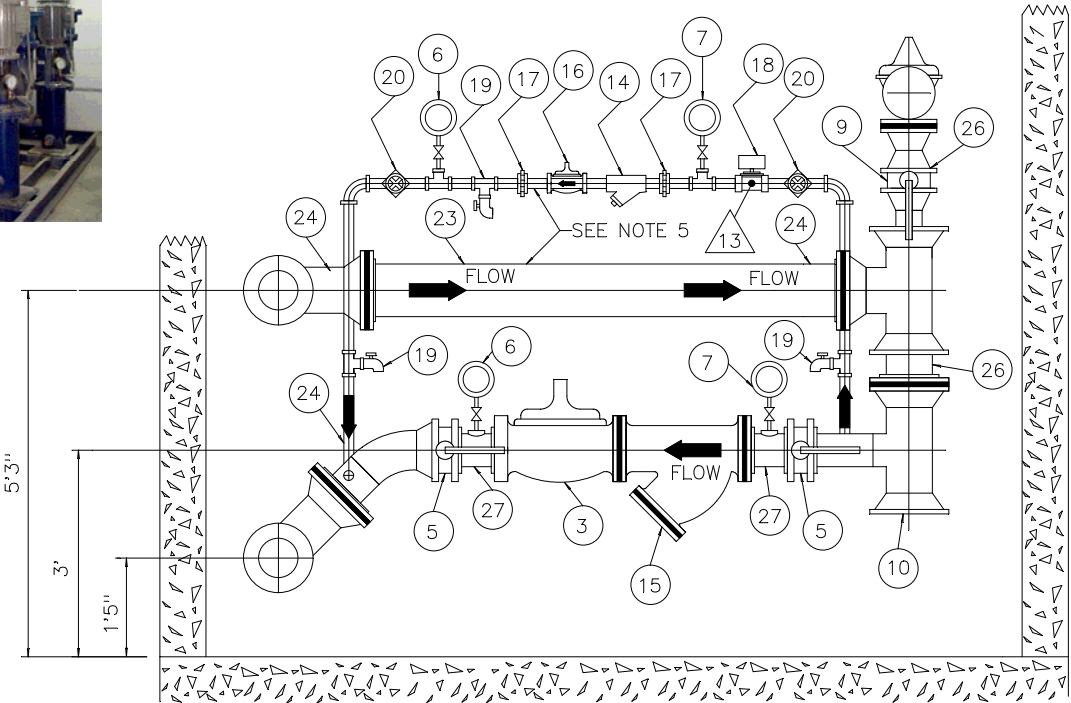
- ① THROUGH ③ = TEMPERATURE PROBE. N.O. CONTACT CLOSSES AT 135°F.
- ④ THROUGH ⑥ = PURGE VALVE. WHEN ACTIVATED, PURGES HOT WATER FROM PUMP TO DRAIN. SHOULD BE ENERGIZED BY TEMP. PROBE.
- ⑦ THROUGH ⑨ = LIMIT SWITCH. SHOULD BE ADJUSTED SO THAT SWITCH TRIPS TO INDICATED THAT THE VALVE IS CLOSED. PUMP SHOULD NOT BE SHUT OFF UNTIL VALVE IS CLOSED
- ⑩ THROUGH ⑫ ELECTRIC CHECK SOLENOID. THIS SOLENOID MUST BE ENERGIZED FOR VALVE TO OPERATE. WHEN DE-ENERGIZED, THE VALVE WILL BE FORCED CLOSED. THIS SOLENOID SHOULD BE DE-ENERGIZED PRIOR TO DEACTIVATING A PUMP.
- ⑬ 1 1/2" SOLENOID VALVE. VALVE IS NORMALLY CLOSED–ENERGIZE TO OPEN.

SOLENOID POWER CONSUMPTION

- ④ THROUGH ⑥ = 35 V.A. HOLDING
78 V.A. INRUSH
- ⑩ THROUGH ⑫ = 15.6 V.A. HOLDING
25.5 V.A. INRUSH
- ⑬ 15.6 V.A. HOLDING
34 V.A. INRUSH

NOTES:

1. ALL INTERCONNECTING PIPING ON THIS SYSTEM ARE FACTORY TESTED. HANDLING DURING TRANSIT MAY CREATE THE NEED FOR TIGHTENING OF CONNECTIONS. SYNCROFLO, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR CONSEQUENTIAL LIABILITY BEYOND THEIR CONTROL. IT IS SUGGESTED THAT THE SYSTEM BE INSTALLED AND TESTED FOR LEAKS PRIOR TO INSULATING.
2. PIPING FABRICATED FROM SCHEDULE 40 STEEL AND 150 LB. CLASS WELDING FITTING. 1 1/2" PIPING–SCHEDULE 40 RED BRASS
3. 1" ALLOWANCE UNDER SKID BASE FOR LEVELING
4. ALL PRESSURE GAUGES TO HAVE A MINIMUM 4 1/2" Ø FACE AND WILL BE PIPE MOUNTED.
5. FOR CLARIFICATION PIPE SUPPORTS ARE NOT SHOWN



SECTION A-A

CITY PRESSURE WATER SUPPLY	
DETAIL OF PUMPING STATION–1	
DRAWN BY: MATT BREKKE	SHEET
DECEMBER 2001	1 OF 5

SCALE: 3/4" = 1'–0"