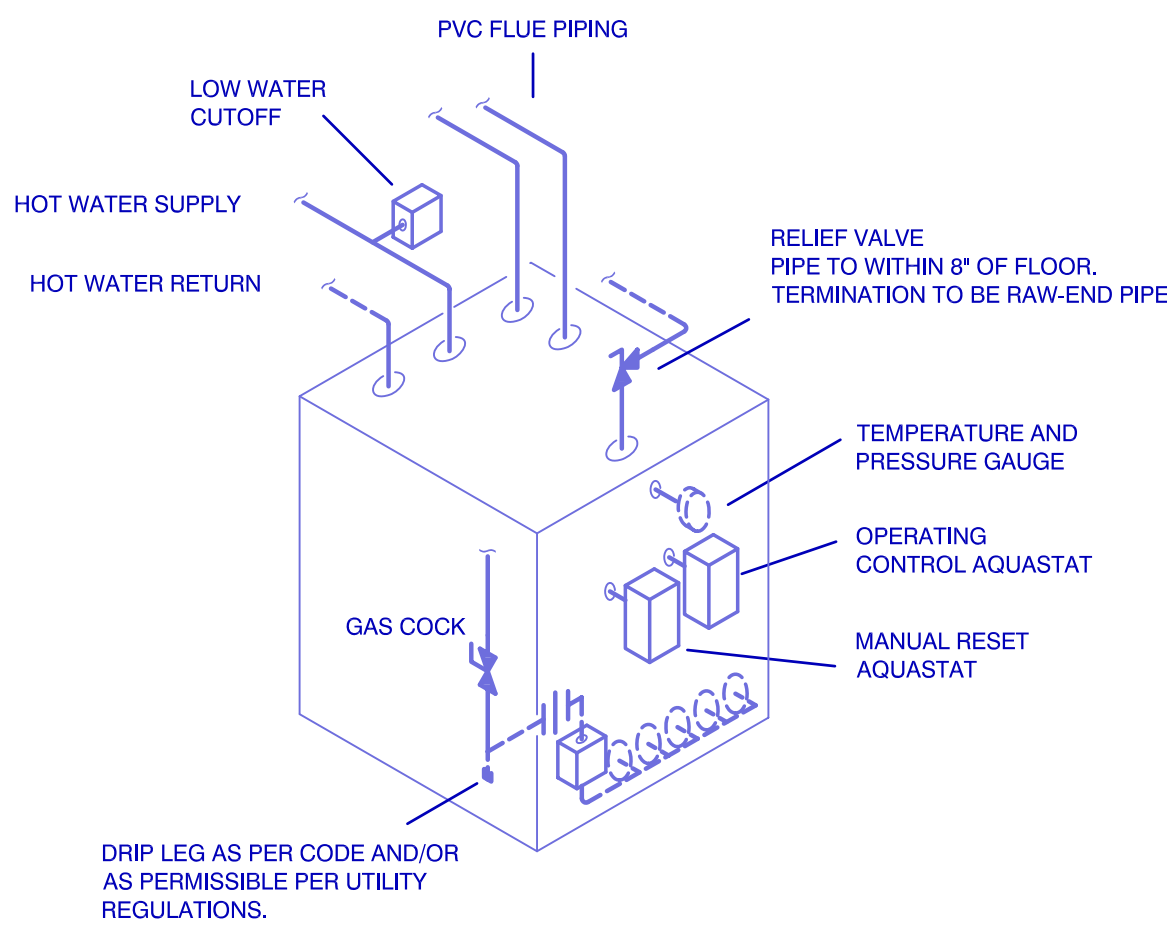


SCHEMATIC PIPING PLAN OF NEW BOILER AND DOMESTIC HOT WATER PLANT

SCALE = NTS



TYPICAL DETAILS AT BOILER

SCALE = NTS

SEQUENCE OF OPERATION
LOCHINVAR BOILERS SHALL BE PROGRAMMED FOR SEQUENCE CONTROL WITH BOILER #1 CONTROLLING BOTH BOILERS. REFER TO MANUFACTURERS INSTRUCTIONS AND WIRING DIAGRAMS.
AQUASTATS FOR THE TURBOMAX WATER HEATERS SHALL BE WIRED IN PARALLEL SO THAT EITHER WATER HEATER CAN SEQUENCE THE DOMESTIC PUMPS "DP" TO OPERATE.
THE DOMESTIC PUMPS SHALL BE CONTROLLED BY A POWER RELAY WITH THE ABILITY TO SWITCH FROM MAIN TO STANDBY PUMP.
HEATING ZONE PUMPS SHALL BE PROVIDED WITH RELAY TRANSFORMERS TO OPERATE PUMPS UPON A CALL FROM EXISTING LOW VOLTAGE THERMOSTATS.

- EXISTING EQUIPMENT OR PIPING TO BE REMOVED.
- GATE/GENERAL VALVE
- GLOBE VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- BALL VALVE
- SWING CHECK VALVE
- LIFT CHECK VALVE
- GATE VALVE, ANGLE
- GLOBE VALVE, ANGLE
- DIAPHRAM VALVE
- BALANCING VALVE
- CIRCUIT SETTING BALANCING VALVE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE (PRV)
- TEMPERATURE/PRESSURE RELIEF VALVE
- LOW WATER CUTOFF

- RELIEF/SAFETY VALVE
- GAS COCK
- FUSIBLE LINK VALVE-QUICK CLOSING
- FUSIBLE LINK VALVE-QUICK OPENING
- AUTOMATIC FILL VALVE
- MANUAL AIR VENT
- AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN)
- FLOW METER-VENTURI
- FLOW METER-ORIFICE
- DIRECTION OF FLOW
- DIRECTION OF PITCH-RISE OR DROP
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- PIPE RISING UP
- PIPE DROPPING DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION - SCREWED OR FLANGED
- STEAM LEAK DETECTOR
- REDUCED PRESSURE-ZONE BACKFLOW PREVENTER
- PUMP

- ANCHOR
- GUIDE
- EXPANSION JOINT
- FLOW SWITCH
- TEMPERATURE TRANSMITTER
- PRESSURE TRANSMITTER OR PRESSURE SWITCH
- THERMOMETER
- GAUGE WITH GAUGE COCK (& SYPHON STEAM)
- AQUASTAT
- GAS PRESSURE REGULATOR
- FLOAT OPERATED CONTROL VALVE
- BASKET STRAINER
- STEAM TRAP
- THERMOSTATIC STEAM VENT
- ELECTRICALLY TRACED PIPING
- EXPANSION LOOP (WxH)
- VACUUM BREAKER
- HOSE BIBB DRAIN

- EXISTING PIPING TO REMAIN
- EXISTING RETURN PIPING
- NEW PIPING (SERVICE AS INDICATED)
- NEW RETURN PIPING
- DIRECTION OF FLOW
- BRINE SUPPLY
- BRINE RETURN
- CONDENSER WATER SUPPLY
- CONDENSER WATER RETURN
- CHILLED WATER SUPPLY
- CHILLED WATER RETURN
- CHILLED GLYCOL SUPPLY
- CHILLED GLYCOL RETURN
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- HEATING HOT GLYCOL SUPPLY
- HEATING HOT GLYCOL RETURN
- HEATING HOT WATER SUPPLY
- HEATING HOT WATER RETURN
- NATURAL GAS
- NITROGEN
- OXYGEN
- LABORATORY VACUUM
- COMPRESSED AIR
- LOW PRESSURE STEAM (PSI 15)
- MEDIUM PRESSURE STEAM (PSI 30)
- HIGH PRESSURE STEAM (PSI 125)
- LOW PRESSURE CONDENSATE
- PUMPED CONDENSATE (STEAM)
- SPRINKLER PIPING (FIRE)
- BOILER BLOW DOWN
- CHEMICAL FEED
- VENT PIPING
- RELIEF PIPING
- FILL LINE
- OVERFLOW
- DRAIN
- CONDENSATE DRAIN
- PUMPED COND DRAIN
- REFRIGERANT SUCTION
- REFRIGERANT LIQUID
- FUEL OIL SUPPLY
- FUEL OIL RETURN
- PIPE WELL

SERVICES ABBREVIATIONS

SCALE = NTS

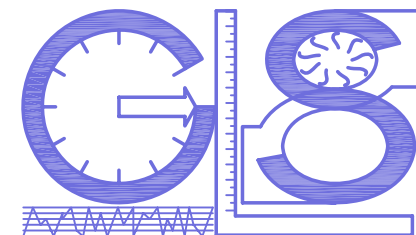
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DRAWING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
H/C	HUNG CEILING
(E)	EXISTING
(N)	NEW
(R)	REMOVE
(R&R)	REMOVE AND REPLACE

00/00/00	Not applicable
Date	Revision



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Drawing Description

BOILER ROOM
SYSTEMS UPGRADE

Date	04/01/10	Proj No.	GLSPE-
Draw by	GLS	Checked by	

P-102.00

Scale: AS NOTED Pp: 1 OF 1