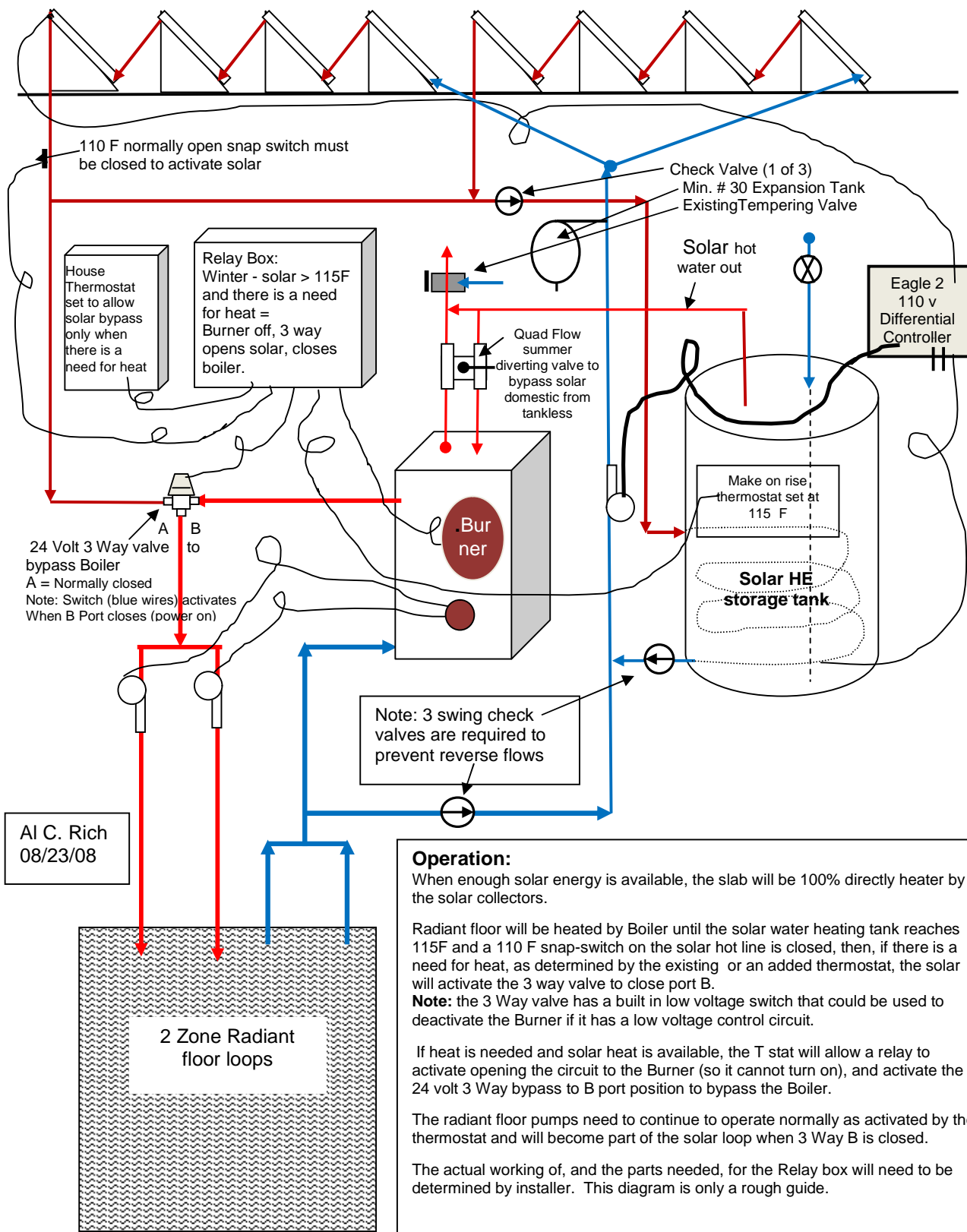


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160 s/f Skyline Direct Space Heating System Diagram shown in Saw-tooth Configuration



Operation:

When enough solar energy is available, the slab will be 100% directly heater by the solar collectors.

Radiant floor will be heated by Boiler until the solar water heating tank reaches 115F and a 110 F snap-switch on the solar hot line is closed, then, if there is a need for heat, as determined by the existing or an added thermostat, the solar will activate the 3 way valve to close port B.

Note: the 3 Way valve has a built in low voltage switch that could be used to deactivate the Burner if it has a low voltage control circuit.

If heat is needed and solar heat is available, the T stat will allow a relay to activate opening the circuit to the Burner (so it cannot turn on), and activate the 24 volt 3 Way bypass to B port position to bypass the Boiler.

The radiant floor pumps need to continue to operate normally as activated by the thermostat and will become part of the solar loop when 3 Way B is closed.

The actual working of, and the parts needed, for the Relay box will need to be determined by installer. This diagram is only a rough guide.