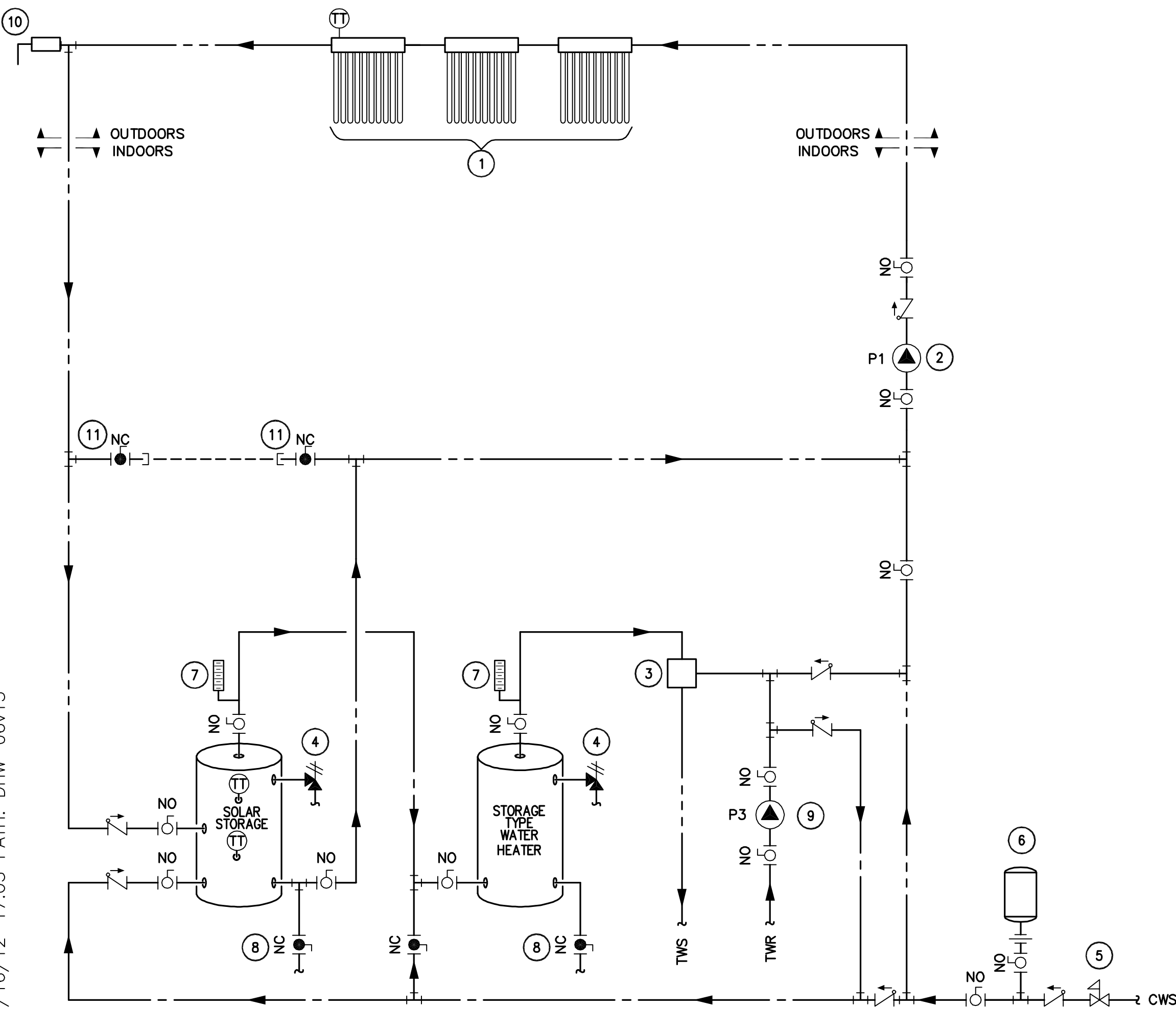


09/16/12-17:03 PATH: DHW-06v15

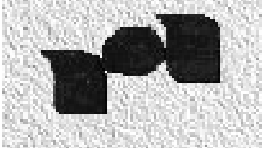


**GENERAL NOTE :**

1. ADD ISOLATION VALVES AND UNIONS AS NEEDED.

**KEYED NOTES :**

- ① INSTALL KINGSPAN, HP-450 SOLAR COLLECTORS IN SERIES UP TO 6 UNITS. FOR MULTIPLE ROW SYSTEMS REFER TO SOLAR ARRAY FLOW DIAGRAM, DHW-10.
- ② SIMPLEX PUMP. SC300 SOLAR CONTROL. WALL MOUNTED IN AN ENCLOSURE WITH DISCONNECT AND MOTOR STARTER.
- ③ MIXING VALVE (SEE MIXING VALVE DETAIL DHW-0)
- ④ ROUTE T&P RELIEF VALVE (PRESSURE RELIEF ONLY FOR SOLAR STORAGE TANKS) DISCHARGE, FULL SIZE, TO FLOOR DRAIN.
- ⑤ PRESSURE REDUCING VALVE – INSTALL ONLY IF WATER SUPPLY PRESSURE EXCEEDS 75% OF WATER HEATING SYSTEM DESIGN PRESSURE.
- ⑥ ASME THERMAL EXPANSION TANK – SIZE ACCORDING TO MANUFACTURER’S RECOMMENDATION.
- ⑦ COMBINATION TEMPERATURE AND PRESSURE GAUGE. INSTALL WITHIN 12” OF HOT WATER OUTLET.
- ⑧ PROVIDE FULL-PORT DRAIN VALVE AND ROUTE TO FLOOR DRAIN.
- ⑨ RECIRCULATION PUMP. PROVIDE AQUASTAT ONLY IF REQUIRED BY CODE WITH LETTER TO OWNER REQUIRING RELEASE OF LIABILITY (NON-MOVING WATER PROMOTES LEGIONELLA).
- ⑩ FREEZE PROTECTION VALVE, THERM-OMEGA-TECH MODEL 3/4” IC/FP HT, INSTALL ON COMMON SOLAR HOT WATER RETURN LINE TO DISCHARGE ON ROOF. VALVE AND TEE TO REMAIN UN-INSULATED.
- ⑪ PROVIDE 3/4” SHUTOFF VALVES FOR FUTURE ACCESS POINTS, ACCESSIBLE WITHIN SAME AREA.

		<b>RAND ASSOCIATES INCORPORATED</b>	
		Domestic Hot Water Flow Diagram Water Heater with Single Pump & Single Solar Storage Tank	
Size:	FSCM No:	Drawing No:	Version:
B	-	DHW-6	15
Drawn By:	Scale:	Date:	Sheet:
BLW	NONE	09.16.2012	1 of 1

PIPING DIAGRAM