


GENERAL NOTES

1. ADD ISOLATION VALVES AND UNIONS AS NEEDED.
2. LEAD-FREE CONSTRUCTION THROUGHOUT.

KEYED NOTES

- ① COMBINATION TEMPERATURE AND PRESSURE GAUGE – INSTALL WITHIN 12" OF HOT WATER OUTLET.
- ② ASME THERMAL EXPANSION TANK – SIZE ACCORDING TO MANUFACTURER'S RECOMMENDATION. DELETE IF THERE IS NO CHECK VALVE OR BACKFLOW PREVENTER BETWEEN WATER HEATER AND WATER SOURCE TO BUILDING.
- ③ PRESSURE REDUCING VALVE – INSTALL ONLY IF WATER SUPPLY PRESSURE EXCEEDS 75% OF WATER HEATING SYSTEM DESIGN PRESSURE.
- ④ ROUTE T&P RELIEF VALVE DISCHARGE FULL SIZE TO FLOOR DRAIN.
- ⑤ PROVIDE FULL-PORT DRAIN VALVE AND ROUTE TO FLOOR DRAIN.
- ⑥ RECIRCULATION PUMP. PROVIDE AQUASTAT ONLY IF REQUIRED BY CODE WITH LETTER TO OWNER REQUIRING RELEASE OF LIABILITY (NON-MOVING WATER PROMOTES LEGIONELLA).
- ⑦ DIGITAL MIXING VALVE, PIPING CONNECTIONS AND COMPONENTS AS DETAILED ABOVE.
- ⑧ SIZE RECIRCULATION PUMP TO MATCH RECOVERY RATE OF WATER HEATER.
- ⑨ STRAINER, TYPICAL.
- ⑩ CHECK VALVE, TYPICAL.

	RAND ASSOCIATES INCORPORATED		
	WATER HEATER & STORAGE TANK RECIRCULATING RETURN SINGLE TEMPERATURE W/DMV		
PIPING DIAGRAM	Size: A	FSCM No: -	Version: 1
	Drawn By: BLW	Scale: NONE	Date: 03.29.14 Sheet: 1 of 1