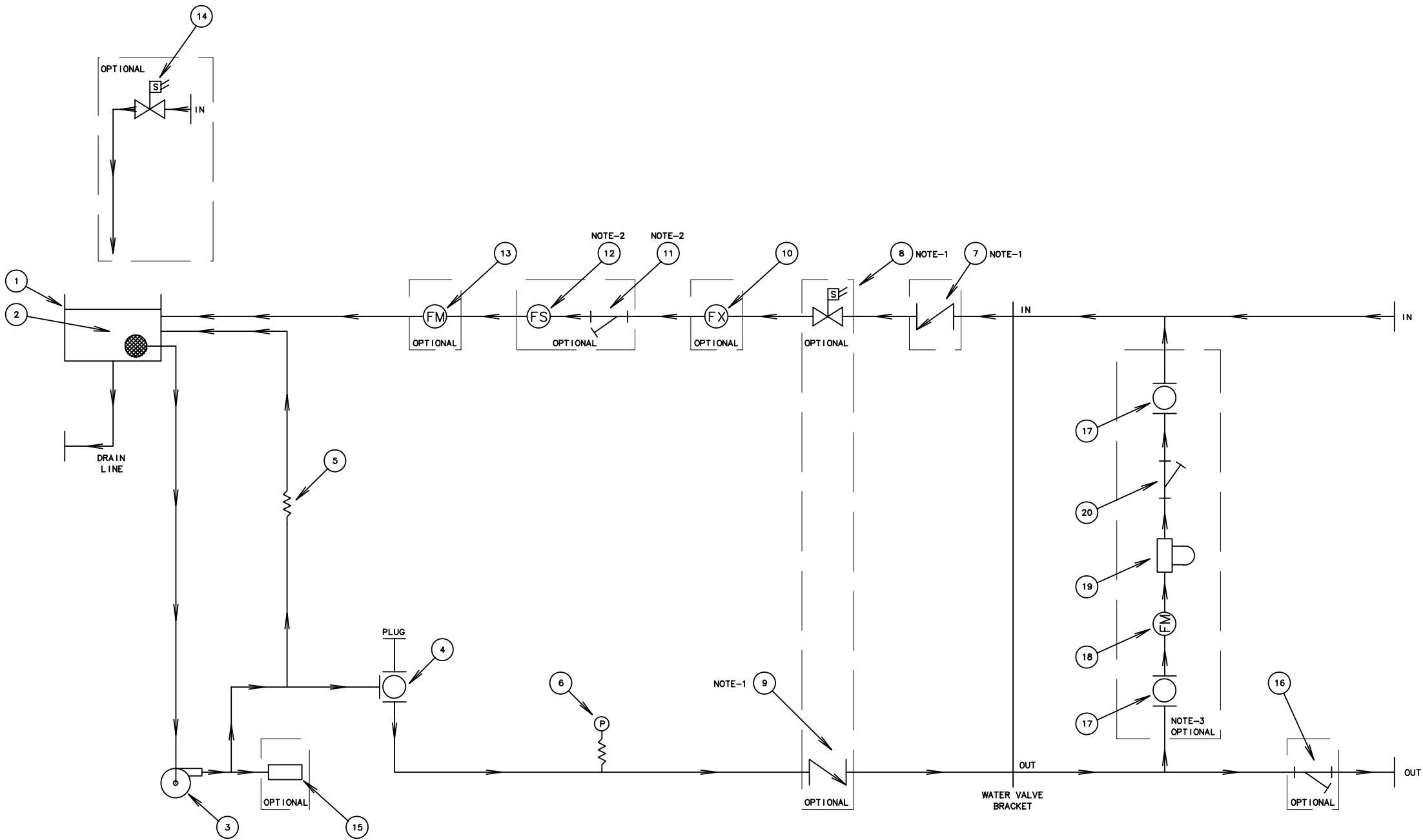


Pump Flow Diagram



- NOTES:
- 1. SOLENOID VALVE (SYM #8) AND DISCHARGE LINE CHECK VALVE (SYM #9) ARE USED FOR ANTI-SIPHON OPTION. STANDARD RETURN LINE CHECK VALVE (SYM #7) IS USED FOR ALL APPLICATIONS EXCEPT ANTI-SIPHON OPTION.
 - 2. FLOW SWITCH (SYM #11) MUST HAVE STRAINER (SYM #12).
 - 3. OPTION IS FOR PARTIAL FLOW DEI, PARTIAL FLOW FILTRATION OR BOTH.

20	1	FILTER, PARTIAL FLOW	OPTIONAL
19	1	DEI CARTRIDGE	OPTIONAL
18	1	FLOW METER, DEI	OPTIONAL
17	2	BALL VALVE, DEI	OPTIONAL
16	1	FILTER, FULL FLOW	OPTIONAL
15	1	DEI SENSOR	OPTIONAL
14	1	SOLENOID VALVE, AUTO-REFILL	OPTIONAL, 4SOL
13	1	FLOW METER	OPTIONAL
12	1	FLOW SWITCH	OPTIONAL
11	1	STRAINER, FLOW SWITCH	OPTIONAL
10	1	FLOW TRANSDUCER	OPTIONAL
9	1	CHECK VALVE, ANTI-SIPHON	OPTIONAL
8	1	SOLENOID VALVE, ANTI-SIPHON	OPTIONAL, 6SOL
7	1	CHECK VALVE	OPTIONAL, ALL EXCEPT ANTI-SIPHON
6	1	PRESSURE GAGE	
5	1	CAPILLARY TUBE BYPASS	
4	1	3-WAY BALL VALVE	
3	1	PUMP	
2	1	SUCTION STRAINER	
1	1	TANK ASSEMBLY	



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HX
PUMP, CP
FLOW DIAGRAM

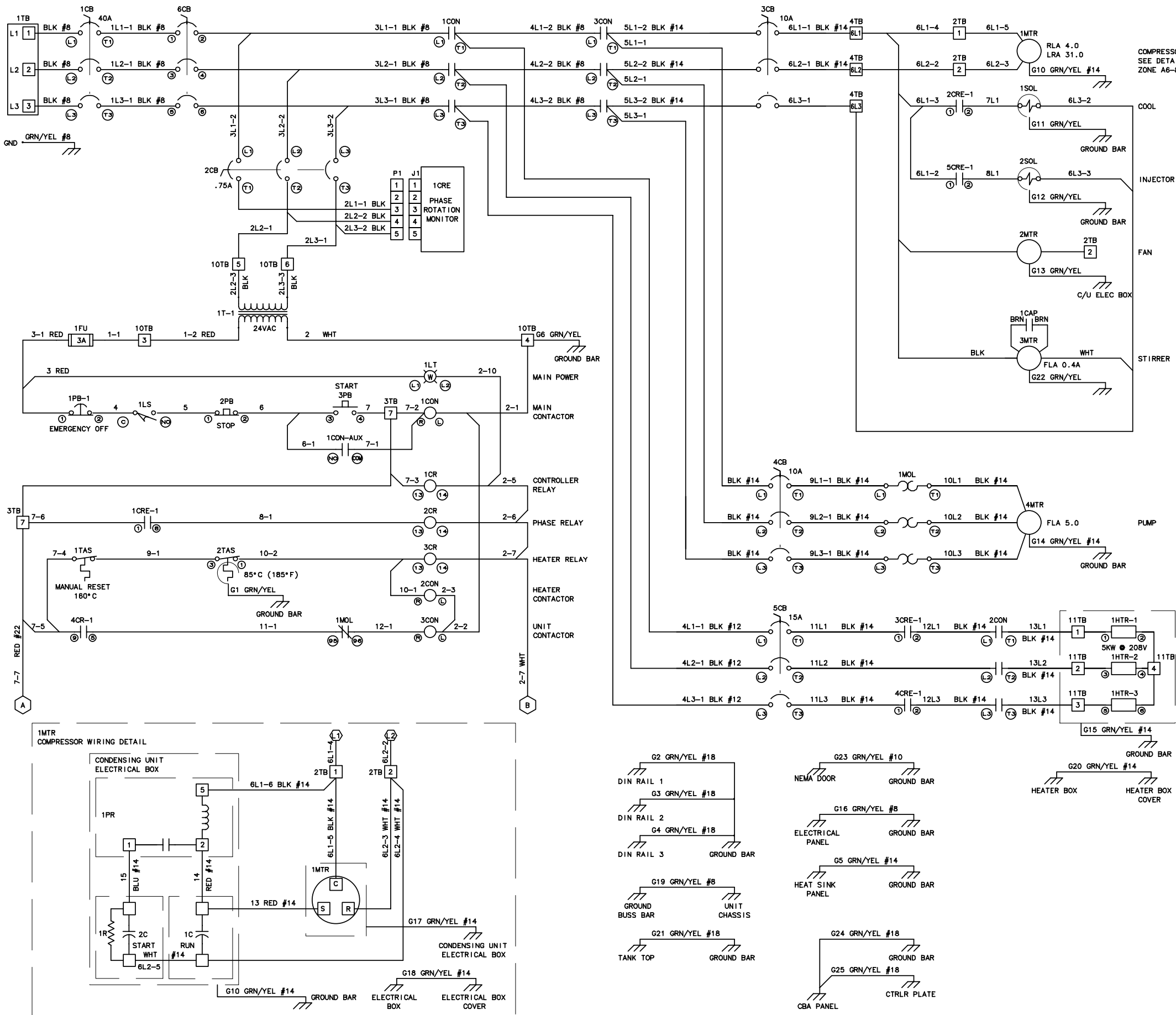
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F00901, F00806

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1 OF 1

VIEW OUR INVENTORY

Wiring Diagram



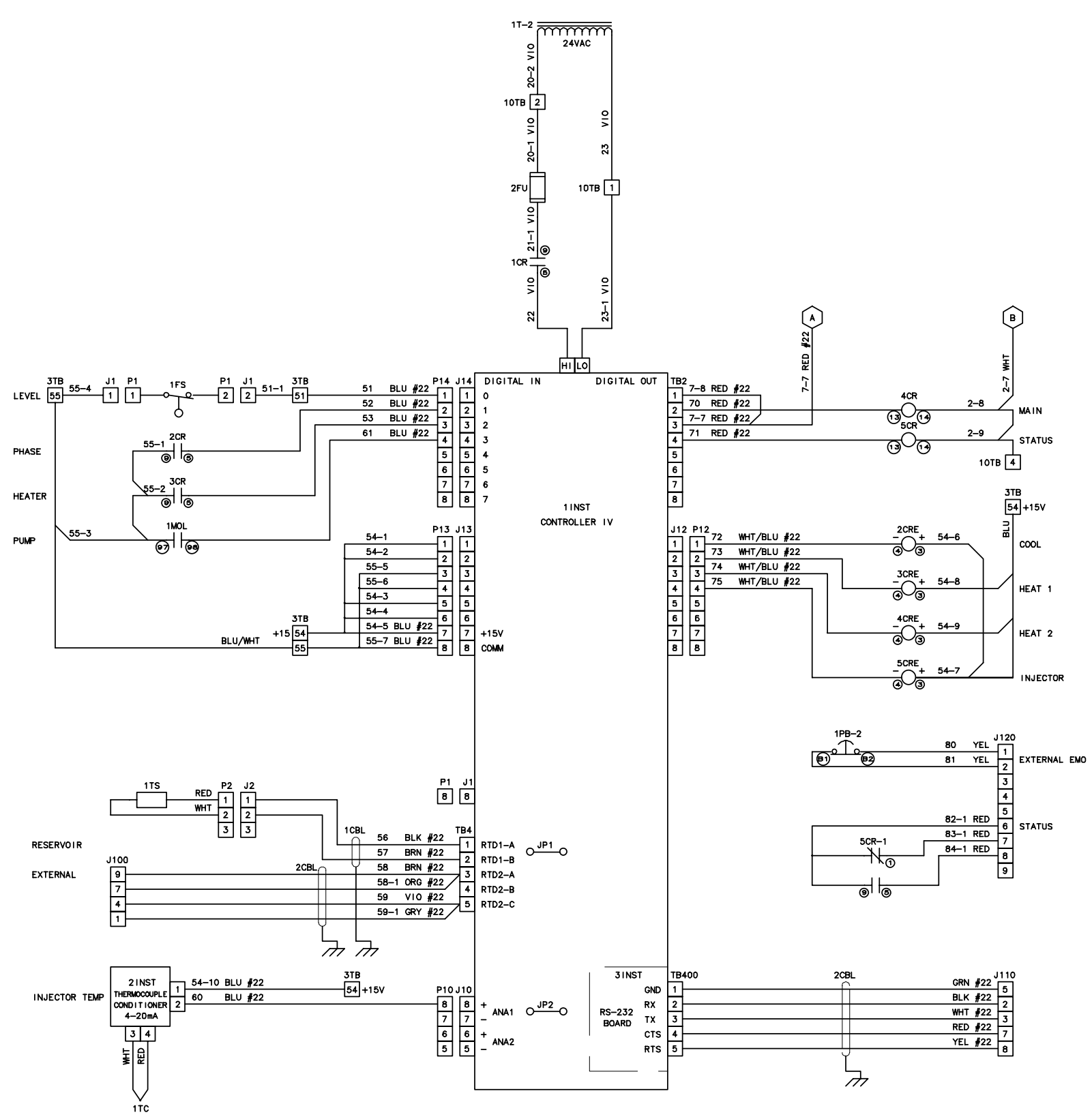
A-C SEE HISTORY FILE FOR REVISION A-C.									
ALL	D	E	F	G	H	I	J	K	L
44 DBB5 8-087 D4	D	E	F	G	H	I	J	K	L
	ADDED: P1, 2 AND J1, 2 TO P/L; VARIOUS GROUND WIRES; VARIOUS WIRE NUMBERS. ECO 15941	ADDED: GROUND WIRE #8 AND NEMA DOOR GND; VARIOUS CONNECTION POINT TEXT. CHANGED: VARIOUS WIRING CONFIGURATIONS; 4TB WAS 3TB. ECO 16549	ADDED: VARIOUS GROUND WIRES AND NOS. CHANGED: WIRE #2-10 WAS TO 10TB-4; SWAPPED SYMBOLS 3CR & 2CON ORIENTATION; 4TB-6L1, 2, 3 WAS 4TB-1, 2, 3; J100, J110 P/N WAS 001548. ECO 17397						

NOTE:
1. ALL WIRES ARE #18 AWG UNLESS OTHERWISE SPECIFIED.

P2	CONNECTOR, PLUG	010773	3 PIN, M&L, MALE
P1	CONNECTOR, PLUG	006101	2 PIN, M&L, MALE
J120	CONNECTOR, JACK	000645	CPC, 9 PIN, RECEPTACLE
J110	CONNECTOR, JACK	006766	RS-232 CONNECTOR
J100	CONNECTOR, JACK	006766	EXTERNAL RTD CONNECTOR
J2	CONNECTOR, JACK	006109	3 PIN, M&L, FEMALE
J1	CONNECTOR, JACK	006100	2 PIN, M&L, FEMALE
1TS	TEMPERATURE SENSOR, RESERVOIR	005720	
1TC	THERMOCOUPLE, INJECTOR PROBE	001438	
11TB	TERMINAL BLOCK	010043	
10TB	TERMINAL BLOCK	006448	
1TB	TERMINAL BLOCK, MAIN POWER	005052	
2TAS	TEMPERATURE ACTUATED SWITCH	006440	RESERVOIR OVERTEMP SWITCH
1TAS	TEMPERATURE ACTUATED SWITCH	025490	HEATER SWITCH
1T	TRANSFORMER, CONTROL	024162	
1, 2SOL	SOLENOID VALVE COILS	009476	
3PB	PUSH BUTTON SWITCH, START	101820	
2PB	PUSH BUTTON SWITCH, STOP	010821	
1PB	PUSH BUTTON SWITCH, EMO	010822	EMERGENCY OFF
4MTR	MOTOR, PUMP	008596	
3MTR	MOTOR, STIRRER	001364	
2MTR	MOTOR, CONDENSOR FAN	007410	
1MTR	MOTOR, COMPRESSOR	007487	
1MOL	MOTOR OVERLOAD, PUMP	024192	
1LT	PILOT LIGHT, MAIN POWER ON	010818	
1LS	LIMIT SWITCH, ENCLOSURE DOOR	006129	
3INST	INSTRUMENT, RS-232 BOARD	000242.1A	
2INST	INSTRUMENT	000547	THERMOCOUPLE CONDITIONER
1INST	INSTRUMENT, TEMP. CONTROLLER	005843.2E	
1HTR	HEATER, RESERVOIR	001000	
2FU	FUSE, CONTROLLER CIRCUIT	010881	
1FU	FUSE, CONTROL CIRCUIT	010883	
1FS	FLOAT SWITCH	000440	RESERVOIR LEVEL
5CRE	CONTROL RELAY ELECTRONIC	010402	INJECTOR RELAY
3, 4CRE	CONTROL RELAY ELECTRONIC	008987	HEATER RELAY
2CRE	CONTROL RELAY ELECTRONIC	010402	COOL RELAY
1CRE	CONTROL RELAY ELECTRONIC	025905	PHASE ROTATION MONITOR
5CR	CONTROL RELAY	006872	STATUS
4CR	CONTROL RELAY	006872	MAIN
3CR	CONTROL RELAY	006872	HEATER STATUS
2CR	CONTROL RELAY	006872	PHASE
1CR	CONTROL RELAY	006872	CONTROLLER
1CON-AUX	CONTACTOR, AUXILIARY	024550	
2CON	CONTACTOR, HEATER	005047	
1, 3CON	CONTACTOR, MAIN	005050	
2CBL	CABLE	006643	
1CBL	CABLE	006512	
6CB	CIRCUIT BREAKER, GFI	000563	40A, 30mA
5CB	CIRCUIT BREAKER, HEATER	005913	15A
4CB	CIRCUIT BREAKER, PUMP MOTOR	005810	10A
3CB	CIRCUIT BREAKER, COMPRESSOR	005810	10A
2CB	CIRCUIT BREAKER, CONTROL	024478	.75A
1CB	CIRCUIT BREAKER, MAIN	006117	40A
1CAP	CAPACITOR, STIRRER MOTOR	010393	

JOLIN 10-15-98
DUBRAVSKY 10-16-98
CIARAMITARO 10-19-98
AS LISTED
HX+75 WATER CHILLER
POWER BOX W/ CONTROLLER IV
208V, 60HZ, 3PH, 150A, CP-55
NOVELLUS

Wiring Diagram



A-C SEE HISTORY FILE FOR REVISION A-C.				X	X	X	X
B, C6	D	ADDED: P/J1, 2 TO 1FS AND 1TS COMPONENTS; VARIOUS WIRE NUMBERS/COLORS. ECO 15941	5-8-01	BAJ	ORC	APC	
C3 B4 C7, 4	E	ADDED: VARIOUS WIRE NUMBERS; 10TB-4; CONNECTION POINT TEXT TO 1PB-2; CHANGED: VARIOUS WIRE CONFIGURATIONS; VARIOUS WIRE NUMBERS. ECO 16549	9-20-01	BAJ	SMP	RR	
C387 C6	F	CHANGED: "3TB" WAS "TB3"; "P1/J1" WAS "J1/P1". ECO 17397	5-23-02	BAJ			

JOLIN 10-15-98
DUBRAVSKY 10-16-98
CIARAMITARO 10-19-98

HX+75 WATER CHILLER
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