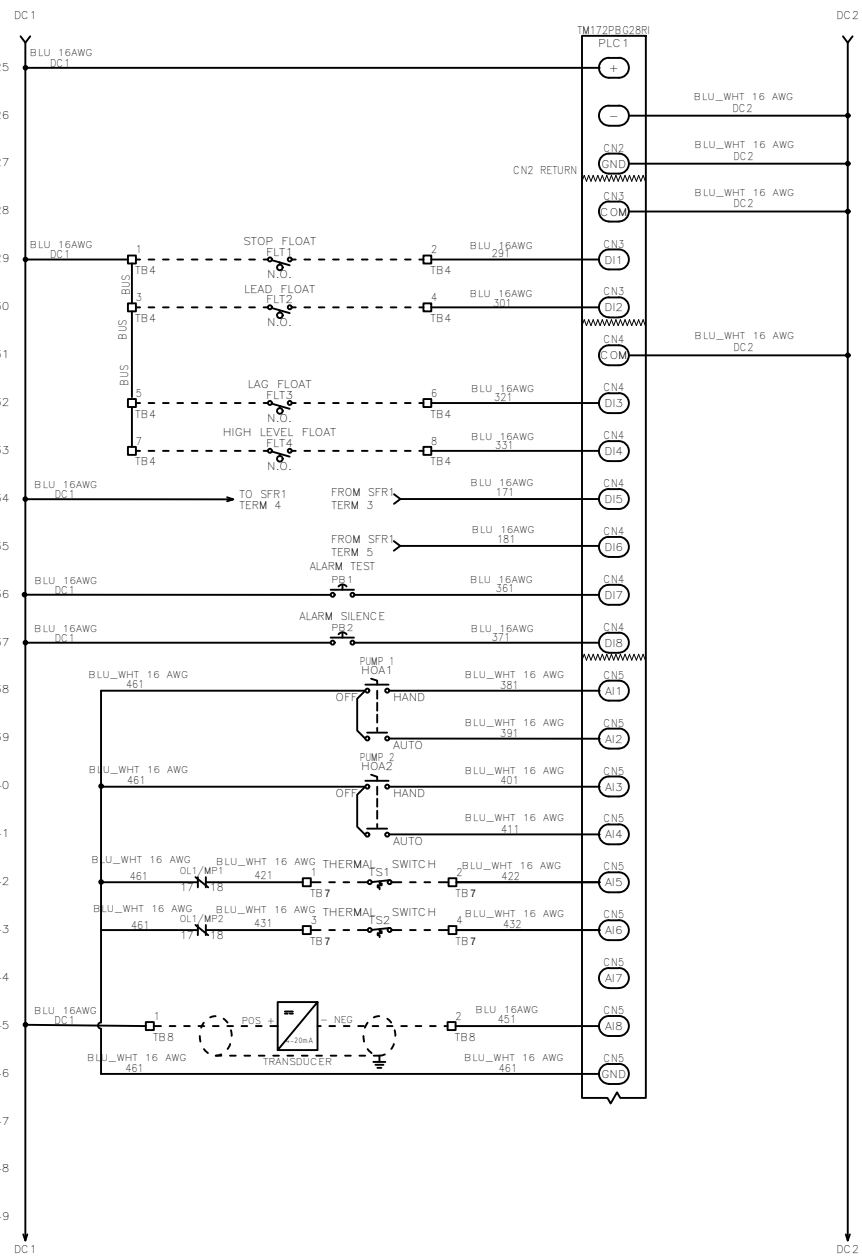
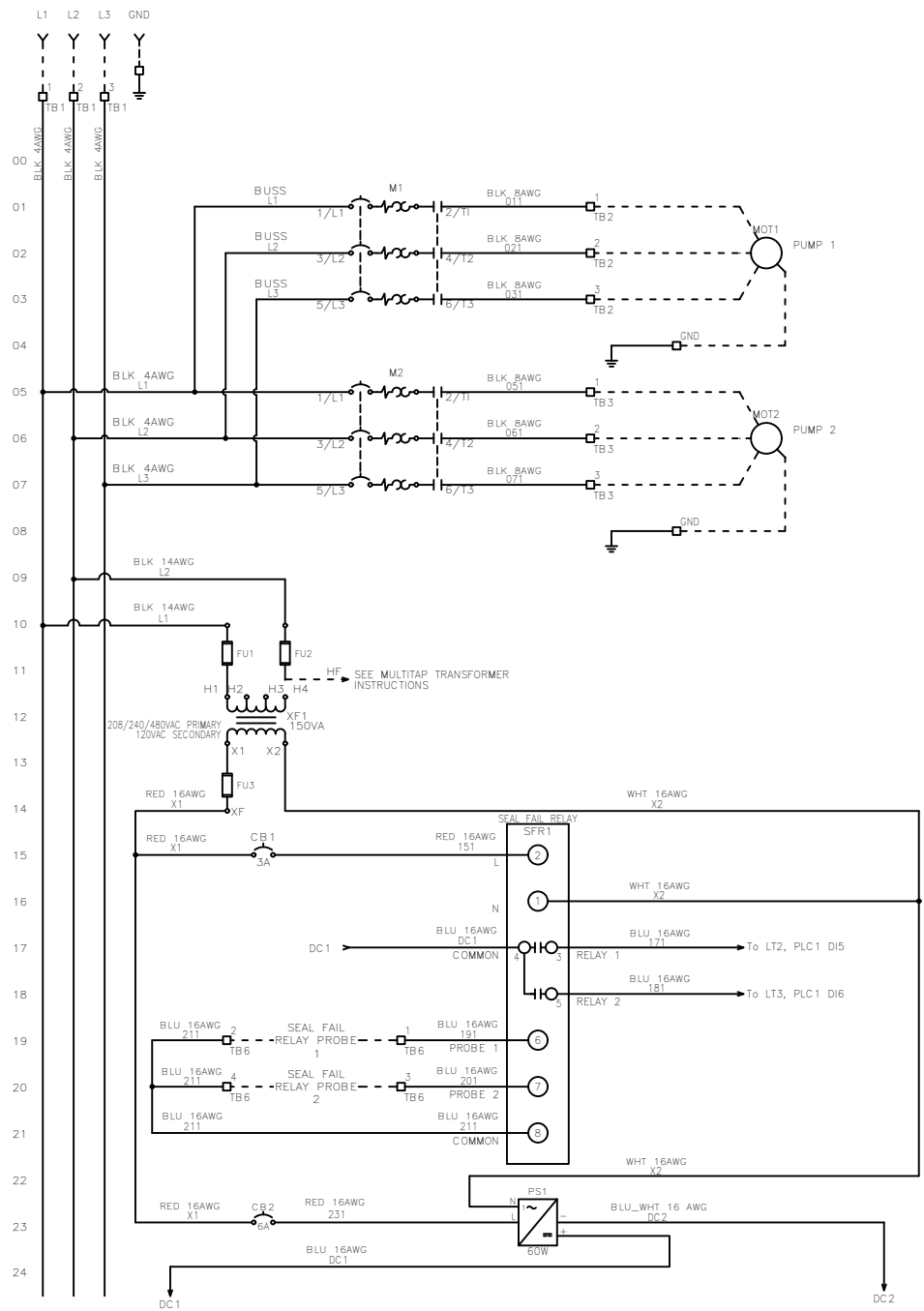




MULTI-TAP TRANSFORMER:

CONNECT FACTORY TAGGED WIRES TO APPROPRIATE TRANSFORMER VOLTAGE TAP. SEE BELOW FOR CONNECTIONS:

FOR 208V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H2.

FOR 240V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H3.

FOR 480V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H4.

DASHED LINE INDICATES FIELD WIRING.

USE COPPER CONDUCTORS ONLY.

TEMPERATURE RATING OF CONDUCTORS IS TO BE:
60°C (140°F) FOR UNDER 100A.
75°C (167°F) FOR OVER 100A.

BRANCH CIRCUIT PROTECTION SHALL BE PROVIDED BY THE INSTALLER: MUST BE SIZED ACCORDING TO PUMP/MOTOR MANUFACTURING SPECIFICATIONS.

VERIFY CORRECT OPERATION OF CONTROL PANEL AFTER INSTALLATION IS COMPLETE.

FIELD WIRING TORQUE SPECS.

TERMINAL BLOCK UT 2,5	5 IN-LB
TERMINAL BLOCK UT 4	7 IN-LB
TERMINAL BLOCK UT 6	15 IN-LB
TERMINAL BLOCK UT 10	15 IN-LB
TERMINAL BLOCK UT 16	25 IN-LB
TERMINAL BLOCK UT 35	30 IN-LB
TS1, TS2, J2 & J3 PCB	5 IN-LB
TRANSFORMER H1F, H2F & H3F	15 IN-LB
TRANSFORMER H1, H2 & H3	10 IN-LB
DS1 VLS3P16-63 R1	16 IN-LB
DS1 VLS3P63-125 R2	45 IN-LB
DS1 LK4JU3CN 100A	36 IN-LB
DS1 LK4MU3N 200A	200 IN-LB
M1/ M2 T1, T2 & T3	15 IN-LB

UL #:	E320866
TOTAL FLA:	12 A
VOLTAGE:	208/240/480 VAC
FREQUENCY:	60 Hz
SHORT CIRCUIT CURRENT:	5KA RMS SYMMETRICAL 600V MAXIMUM
LARGEST MOT. FLA	5.0 A
PHASE:	3 PH
ENCLOSURE TYPE:	3R/4X

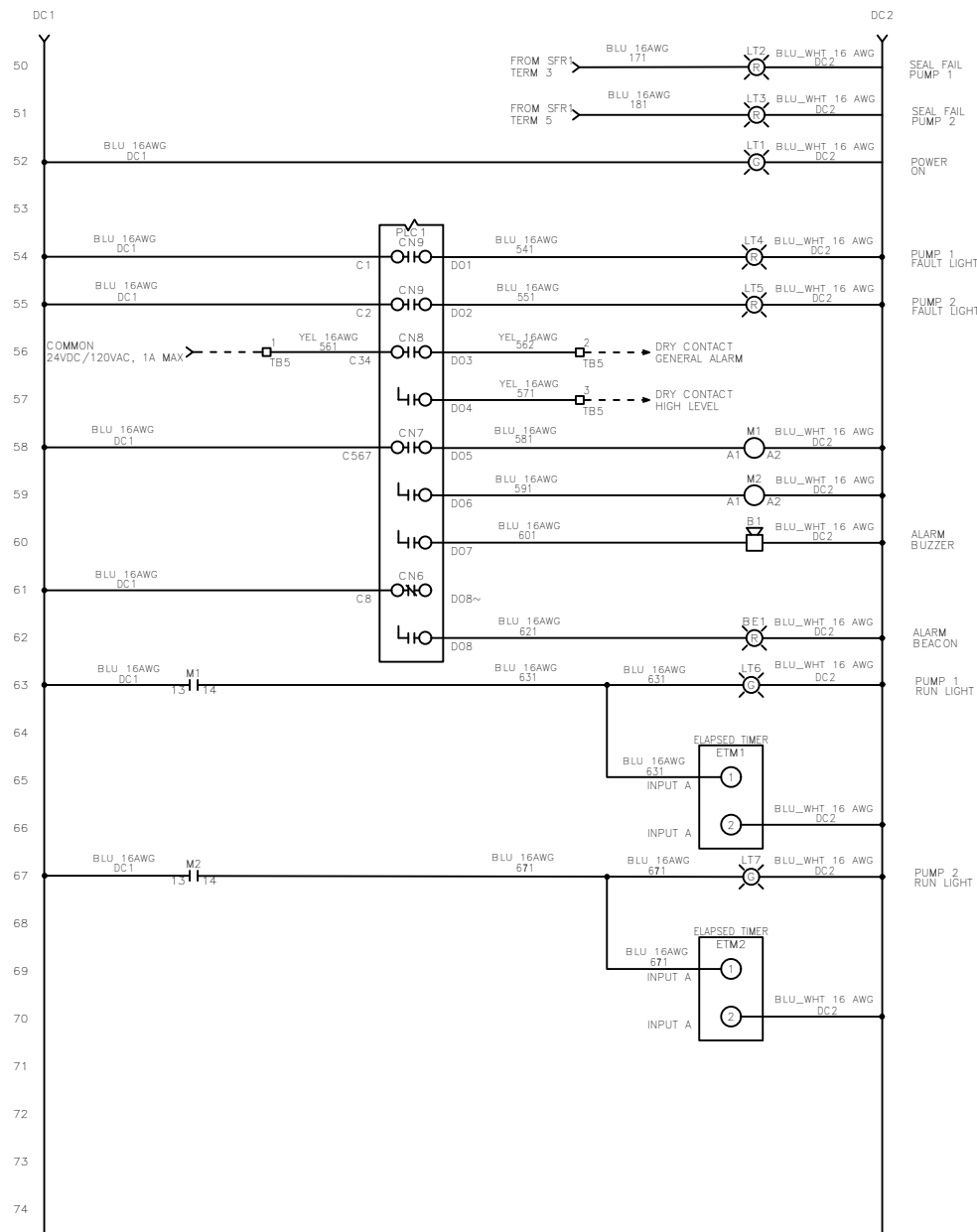
DRAWN BY: JED
DATE: 08/28/20
APPROVED BY: DO
DATE: 06/21/24
THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE USED OR DISCLOSED WITHOUT PRIOR WRITTEN AUTHORIZATION.



TITLE: TRD-T31 SCHEMATIC			
SIZE	DWG NO.	PART NO.	REV
B	1840		F
SCALE	NONE	SHEET	1 OF 2

FRAME: TRD-T31

REVDATE: 0624



MULTI-TAP TRANSFORMER:

CONNECT FACTORY TAGGED WIRES TO APPROPRIATE TRANSFORMER VOLTAGE TAP. SEE BELOW FOR CONNECTIONS:

FOR 208V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H2.

FOR 240V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H3.

FOR 480V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H4.

----- DASHED LINE INDICATES FIELD WIRING.

USE COPPER CONDUCTORS ONLY.

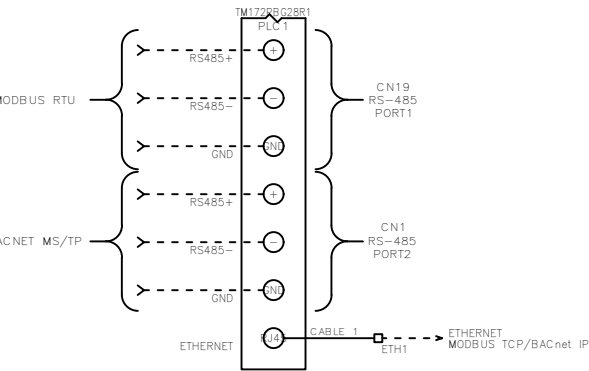
TEMPERATURE RATING OF CONDUCTORS IS TO BE:
60°C (140°F) FOR UNDER 100A.
75°C (167°F) FOR OVER 100A.

BRANCH CIRCUIT PROTECTION SHALL BE PROVIDED BY THE INSTALLER: MUST BE SIZED ACCORDING TO PUMP/MOTOR MANUFACTURING SPECIFICATIONS.

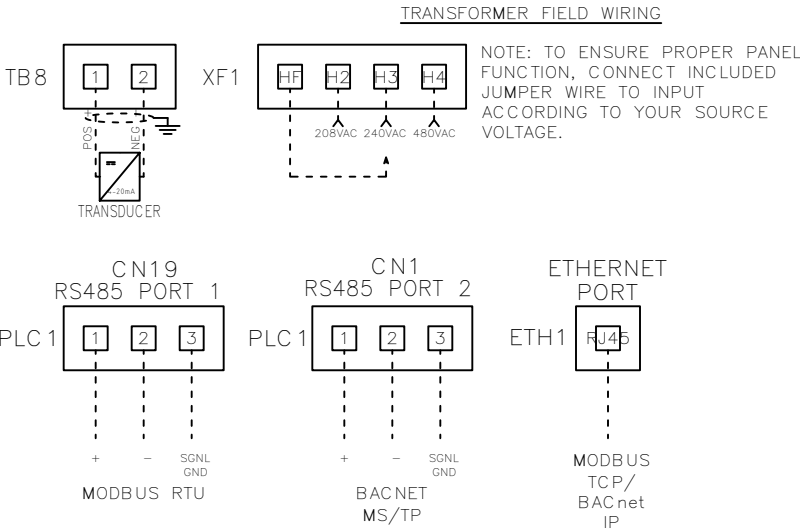
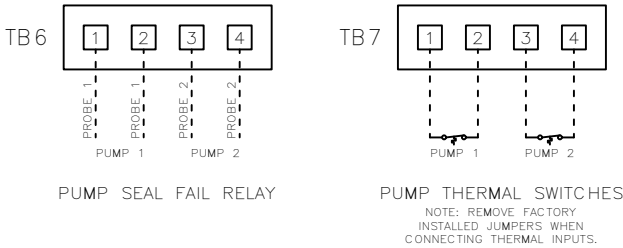
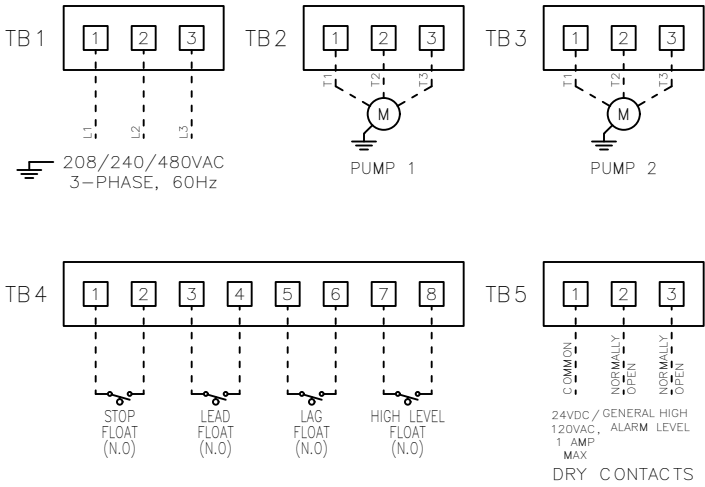
VERIFY CORRECT OPERATION OF CONTROL PANEL AFTER INSTALLATION IS COMPLETE.

FIELD WIRING TORQUE SPECS.

TERMINAL BLOCK UT 2,5	5 IN-LB
TERMINAL BLOCK UT 4	7 IN-LB
TERMINAL BLOCK UT 6	15 IN-LB
TERMINAL BLOCK UT 10	15 IN-LB
TERMINAL BLOCK UT 16	25 IN-LB
TERMINAL BLOCK UT 35	30 IN-LB
TS1, TS2, J2 & J3 PCB	5 IN-LB
TRANSFORMER H1F, H2F & H3F	15 IN-LB
TRANSFORMER H1, H2 & H3	10 IN-LB
DS1 VLS3P16-63 R1	16 IN-LB
DS1 VLS3P63-125 R2	45 IN-LB
DS1 LK4JU3CN 100A	36 IN-LB
DS1 LK4MU3N 200A	200 IN-LB
M1/ M2 T1, T2 & T3	15 IN-LB



FIELD WIRING CONNECTIONS



MULTI-TAP TRANSFORMER:		-----		DASHED LINE INDICATES FIELD WIRING.	
CONNECT FACTORY TAGGED WIRES TO APPROPRIATE TRANSFORMER VOLTAGE TAP. SEE BELOW FOR CONNECTIONS:		USE COPPER CONDUCTORS ONLY.		TEMPERATURE RATING OF CONDUCTORS IS TO BE: 60°C (140°F) FOR UNDER 100A. 75°C (167°F) FOR OVER 100A.	
FOR 208V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H2.		FOR 240V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H3.		FOR 480V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H4.	
BRANCH CIRCUIT PROTECTION SHALL BE PROVIDED BY THE INSTALLER: MUST BE SIZED ACCORDING TO PUMP/MOTOR MANUFACTURING SPECIFICATIONS.		VERIFY CORRECT OPERATION OF CONTROL PANEL AFTER INSTALLATION IS COMPLETE.		FIELD WIRING TORQUE SPECS.	
				TERMINAL BLOCK UT 2,5 5 IN-LB	
				TERMINAL BLOCK UT 4 7 IN-LB	
				TERMINAL BLOCK UT 6 15 IN-LB	
				TERMINAL BLOCK UT 10 15 IN-LB	
				TERMINAL BLOCK UT 16 25 IN-LB	
				TERMINAL BLOCK UT 35 30 IN-LB	
				TS1, TS2, J2 & J3 PCB 5 IN-LB	
				TRANSFORMER H1F, H2F & H3F 15 IN-LB	
				TRANSFORMER H1, H2 & H3 10 IN-LB	
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				DS1 LK4MU3N 200A 200 IN-LB	
				M1/ M2 T1, T2 & T3 15 IN-LB	
				UL #:	
				E320866	
				DRAWN BY:	
				JED	
				DATE:	
				08/28/20	
				TOTAL FLA:	
				12 A	
				LARGEST MOT. FLA	
				5.0 A	
				APPROVED BY:	
				DO	
				DATE:	
				06/21/24	
				VOLTAGE:	
				208/240/480 VAC	
				PHASE:	
				3 PH	
				FREQUENCY:	
				60 Hz	
				ENCLOSURE TYPE:	
				3R/4X	
				SHORT CIRCUIT CURRENT:	
				5KA RMS SYMMETRICAL	
				600V MAXIMUM	
				THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE USED OR DISCLOSED WITHOUT PRIOR WRITTEN AUTHORIZATION.	
				SEE WATER Inc.	
				TITLE:	
				TRD-T31 SCHEMATIC	
				SIZE	
				B	
				DWG NO.	
				1840	
				PART NO.	
				TRD-T31	
				REV	
				F	
				SCALE	
				NONE	
				SHEET	
				2 OF 2	