

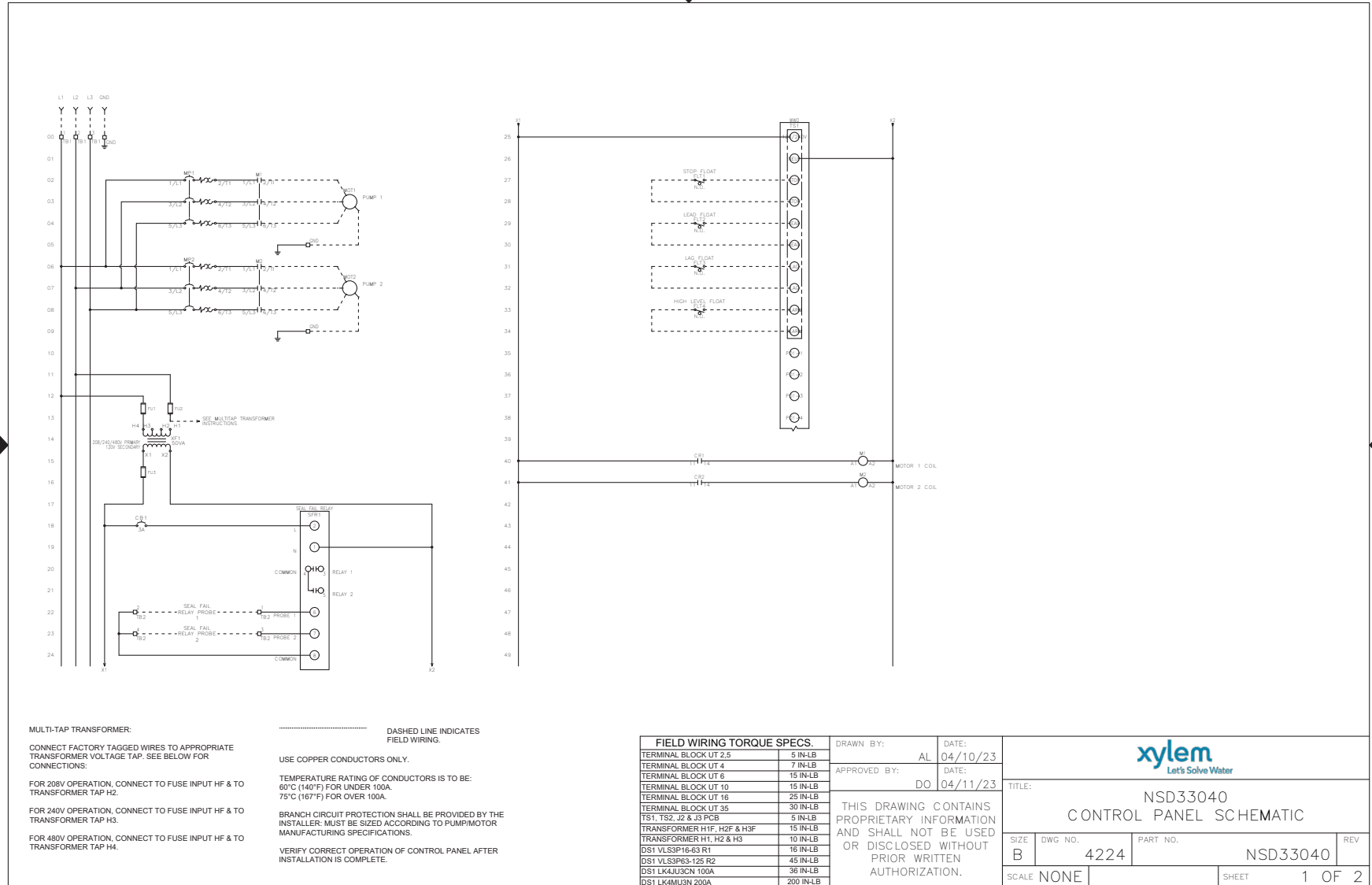
NS Duplex NSD33040

Control Panel Schematic and Layout

CONTROL PANEL SCHEMATIC

FRAME: NSD33040

REVDATE: 0423

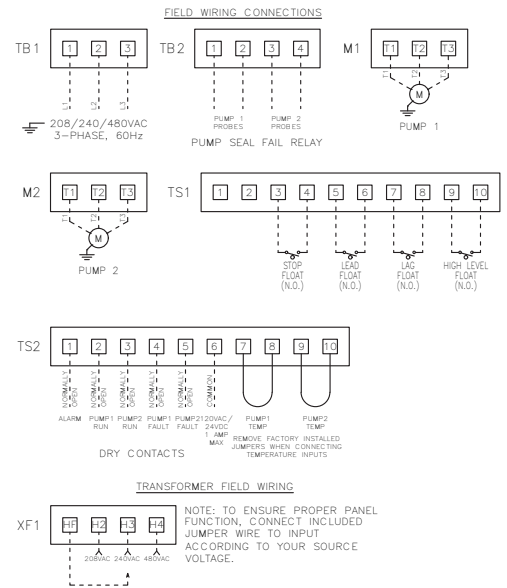
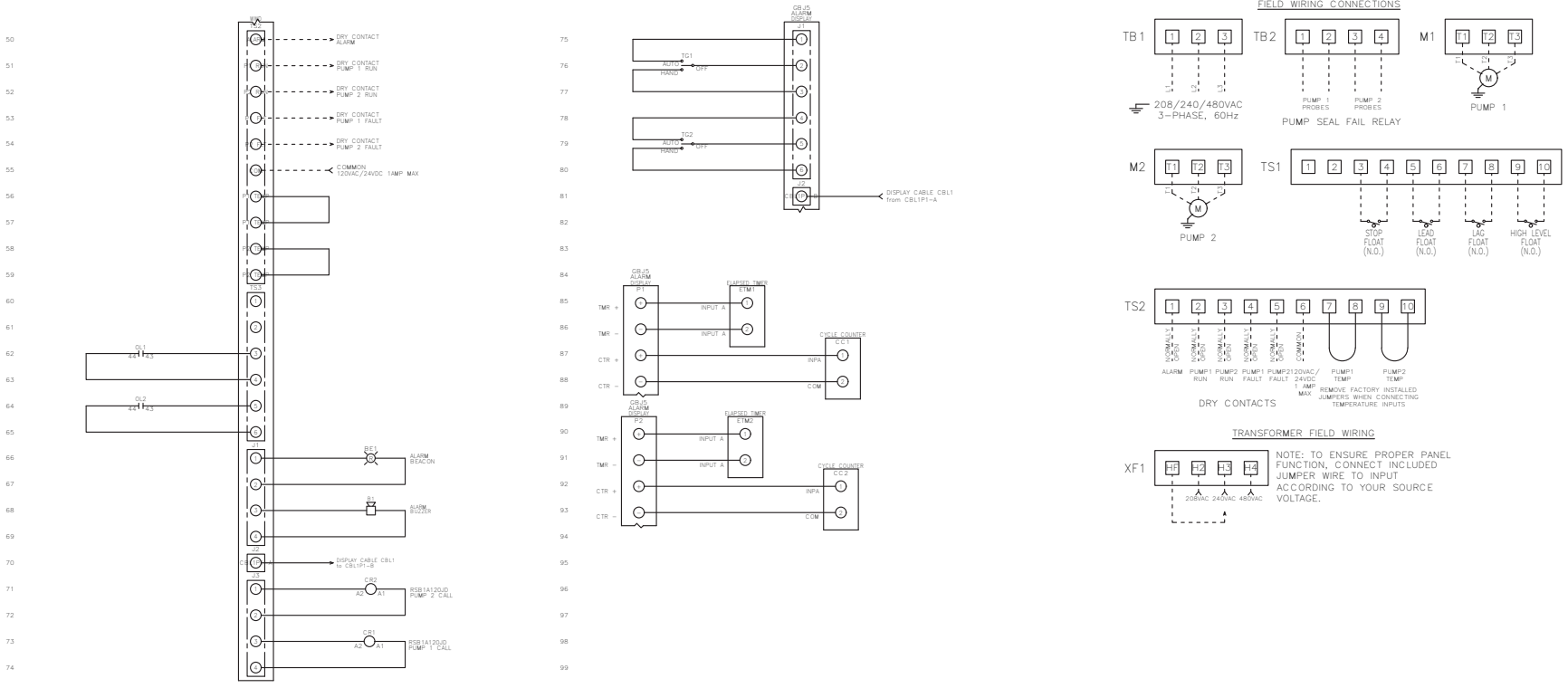


CONTROL PANEL SCHEMATIC

GWTNSD33040 R1

FNAME: NSD33040

REVDATE: 0423



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 LKAJU3CN 100A	36 IN-LB
DS1 LKAMU3N 200A	200 IN-LB

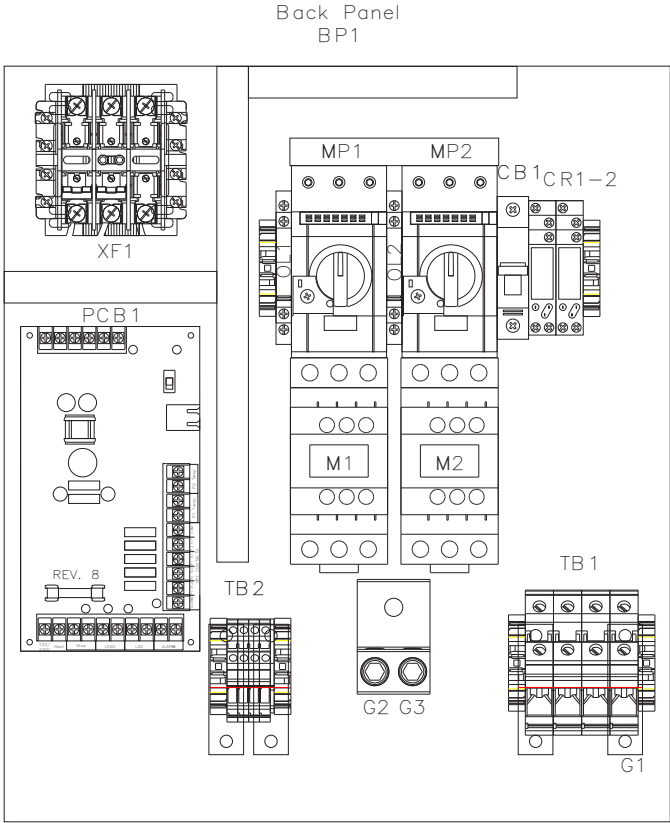
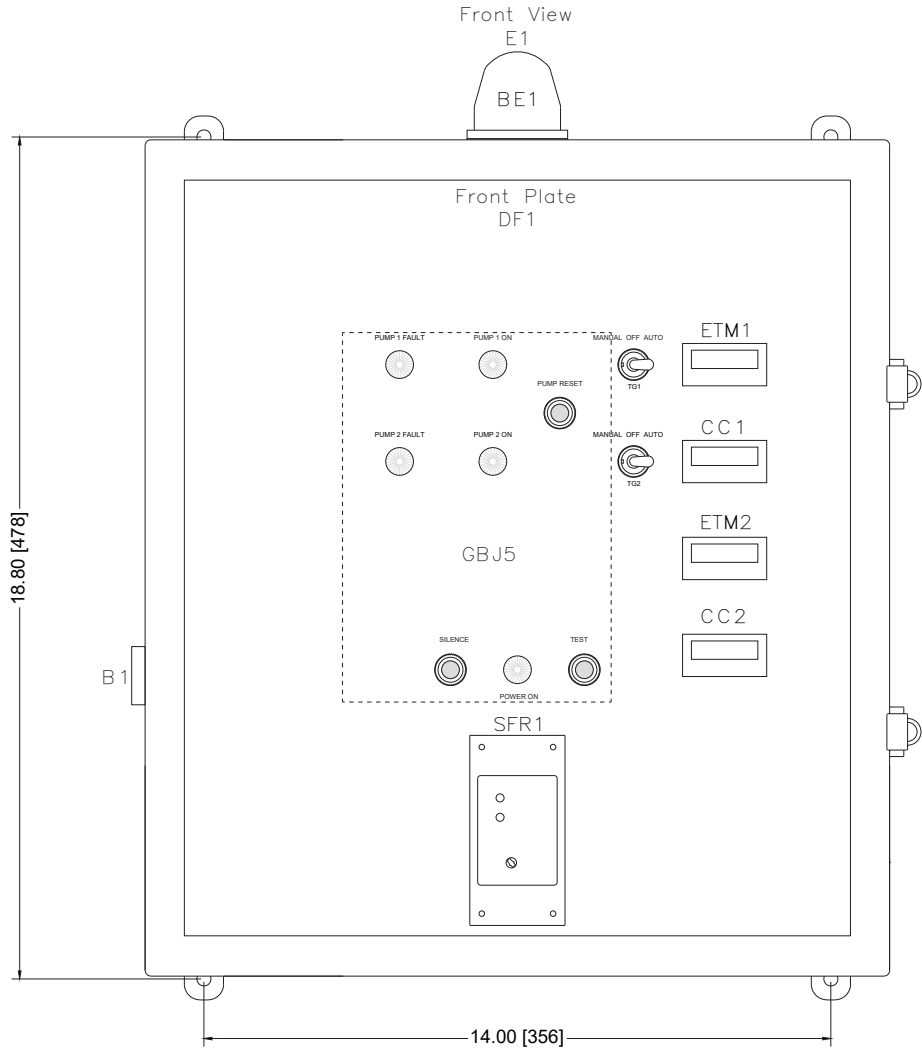
DRAWN BY: AL	DATE: 04/10/23		
APPROVED BY: DO	DATE: 04/11/23		
THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE USED OR DISCLOSED WITHOUT PRIOR WRITTEN AUTHORIZATION.		TITLE: NSD33040 CONTROL PANEL SCHEMATIC	
		SIZE: B	DWG NO. 4224
		PART NO. NSD33040	REV
		SCALE: NONE	SHEET: 2 OF 2

CONTROL PANEL LAYOUT

GWTNSD33040 R1

FNAME: NSD33040

REVDATE: 0423



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				NSD33040 CONTROL PANEL LAYOUT		
				SIZE	DWG NO.	PART NO.
				B	4225	NSD33040
				SCALE	NONE	SHEET 1 OF 2

CONTROL PANEL LAYOUT



FNAME: NSD33040

REVDATE: 0423

QTY	MANUFACTURER	DESCRIPTION	PART NUMBER	REF.
1	Integra	P.C. Nema 4X Enclosure 18X16X10	H181610HCLL	E1
1	All-Spec	Dead Front	622P	DF1
1	All-Spec	Back Panel	625	BP1
1	Integra	Hinge Kit	US0PK-P909	N/A
1	Ingram	Beacon	R10-SM	BE1
1	Ingram	Buzzer	PB-024-AD	B1
1	See Water	Display Board	GBJ5	GBJ5
5	LEDTRONICS	White Lense	LENS-LCD780-CWF	N/A
2	See Water	Flat Cable Assembly	IDC-25MB	N/A
2	Molex	4 Pin Connector	09-50-3041	N/A
1	Molex	6 Pin Connector	09-50-3061	N/A
1	See Water	Power Circuit Board	WWD	PCB1
2	Carling	H0A Toggle Switch	6FC57-73	TG1-2
1	Schneider	Multitap Transformer 50VA	9070TF50D20	XF1
2	Mersen	ATQR 3/10A Fuse	ATQR-3/10A	XF1
1	Mersen	TRM 6/10A Fuse	TRM-6/10A	XF1
2	Schneider	Motor Protector	GV3P40	MP1-2
2	Schneider	Side Mount Auxiliary	GVAN11	OL1-2
2	Schneider	Contactore	LC1D40AG7	M1-2

QTY	MANUFACTURER	DESCRIPTION	PART NUMBER	REF.
1	Schneider	GV3 BusBar	GV3G264	N/A
1	Schneider	Circuit Breaker	B1E1C3	CB1
2	Schneider	Mini Plug In Relay Holder	RSZE1S35M	CR1-2
2	Schneider	Mini Plug In Relay Clamp	RSZR215	CR1-2
2	Schneider	Mini Plug In Relay 12VDC	RSB1A120JD	CR1-2
1	Macromatics	Door Mount Dual Seal Fail	SFF120C100	SFR1
2	Trumeter	Elapsed Time Meter	6320-2500-0000	ETM1-2
2	Trumeter	Cycle Counter	6300-2500-0000	CC1-2
4	Phoenix Contact	Terminal Block UT-4	3044102	TB2
3	Phoenix Contact	Terminal Block UT-35	3044225	TB1
1	Phoenix Contact	Terminal Block UT-35-PE	3044241	G1
6	Phoenix Contact	End Stop	3022218	N/A
1	Burndy	Ground	2S250	G2-3
2	Altech	Angled Mounting Bracket	CA603	N/A
4	See Water	N.O. Narrow Angle Floats 50'	FPC0N50	N/A
1	UL	508A UL Label	N/A	N/A



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				NSD33040	
				CONTROL PANEL LAYOUT	
				SIZE	DWG. NO.
B	4225	NSD33040			
SCALE		NONE	SHEET		2 OF 2



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