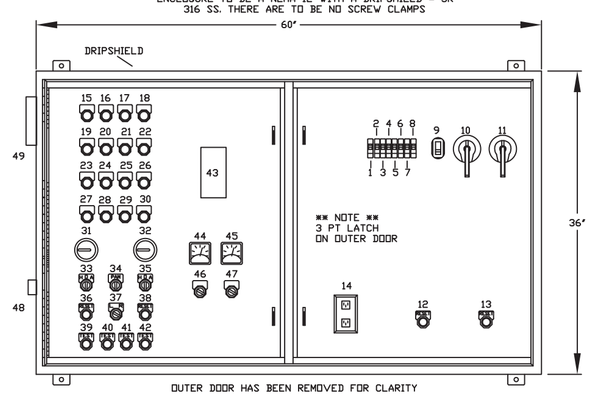
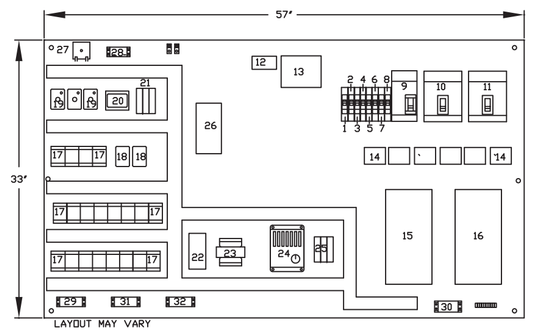


1 - 3 SPARE CIRCUIT BREAKERS
4 - 5 LCB EXTERIOR LIGHT BREAKERS
6 - ULC ULTRASONIC LEVEL CONTROLLER BREAKER
7 - DRB DUPLEX RECEPTACLE BREAKER
8 - CCB CONTROL CIRCUIT BREAKER
9 - TCB TRANSFORMER CIRCUIT BREAKER
10 - MB1 MOTOR BREAKER 1
11 - MB2 MOTOR BREAKER 2
12 - OVERLOAD 1 RESET
13 - OVERLOAD 2 RESET
14 - 3R DUPLEX RECEPTACLE GFI
15 - PLPL12 LOW LEVEL
16 - PL11 HIGH LEVEL
17 - PL13 POWER ON
18 - PL2 BACKUP FLOAT HIGH LEVEL
19 - PL3 OVERTEMP 1
20 - PL4 MOISTURE 1
21 - PL6 MOISTURE 2
22 - PL5 OVERTEMP 2
23 - PL7 MOTOR BREAKER 1 TRIP
24 - PL8 OVERLOAD 1
25 - PL9 MOTOR BREAKER 2 TRIP
26 - PL10 OVERLOAD 2
27 - RL1 RUN LIGHT 1
28 - PL13 POWER ON
29 - PL14 PHASE FAIL
30 - RL2 RUN LIGHT 2
31 - ETM1 ELAPSE TIME METER 1
32 - ETM2 ELAPSE TIME METER 2
33 - HOA SWITCH PUMP 1
34 - PAM PUMP/ALT/MANUAL SELECTOR SWITCH
35 - HOA SWITCH PUMP 2
36 - MINICAS 1 RESET
37 - LOCAL/REMOTE SCADA SLECTOR SWITCH
38 - MINICAS 2 RESET
39 - OVERTEMP 1 TEST PB
40 - MOISTURE 1 TEST PB
41 - MOISTURE 2 TEST PB
42 - OVERTEMP 2 TEST PB
43 - ULC ULTRASONIC LEVEL CONTROLLER
MILTRONICS HYDRO RANGER PLUS
44 - VOLTMETER
45 - AMMETER
46 - VOLTMETER SELECTOR SWITCH
47 - AMMETER SELECTOR SWITCH
48 - ASB ALARM SILENCE BUTTON
49 - AH ALARM HORN

* NOTE *
ENCLOSURES GOING INTO A FLOOD ZONE WILL BE 36" X 60" X 12" - 316 SS
230V CONTROL PANELS WILL NOT HAVE A CPT
480V CONTROL PANELS CPT WILL BE SHIPPED LOOSE FOR REMOTE MOUNTING



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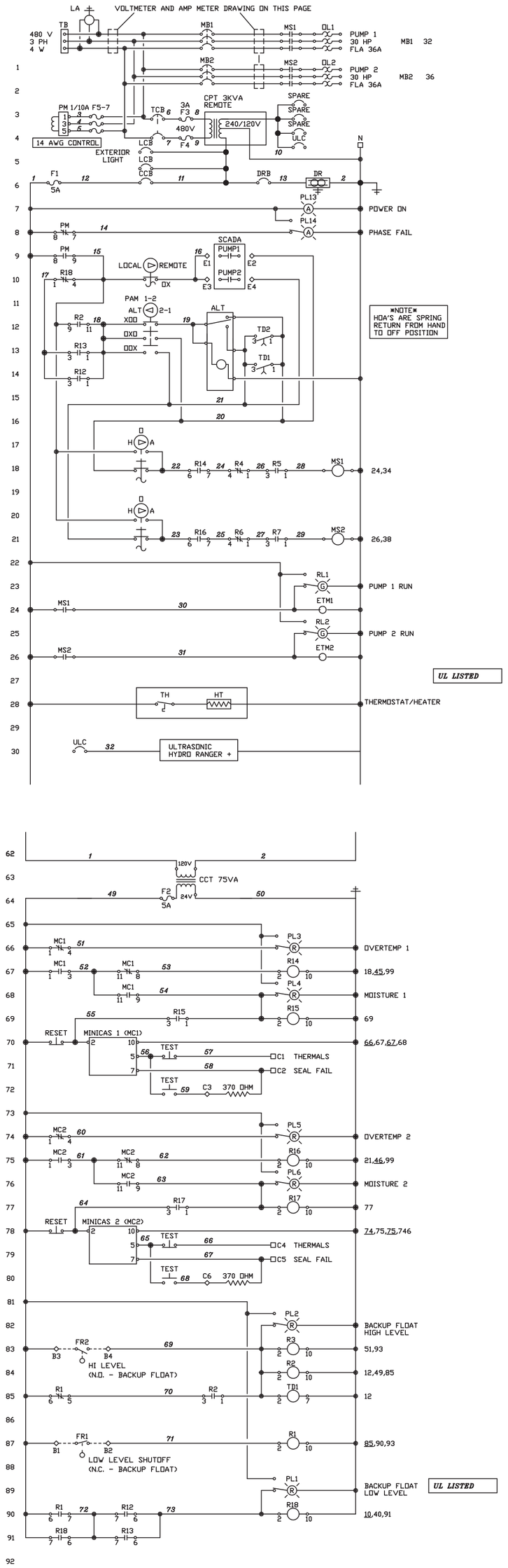
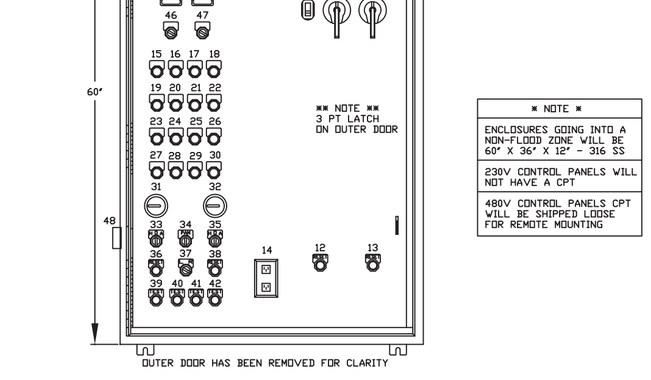
8 - CCB CONTROL CIRCUIT BREAKER
9 - TCB TRANSFORMER CIRCUIT BREAKER
10 - MB1 MOTOR BREAKER 1
11 - MB2 MOTOR BREAKER 2
12 - LA LIGHTNING ARRESTOR
13 - POWER TERMINAL BLOCK
14 - CT CURRENT TRANSFORMERS
15 - MS1 MOTOR STARTER 1
16 - MS2 MOTOR STARTER 2
17 - R1-1R RELAYS 1-1R, 5A & 7A
18 - MC1-2 MINICAS 1-2
19 - TDI-3 TIME DELAY 1-3
20 - PM PHASE MONITOR
21 - FUSE BLOCKS
22 - MPE, INC. MODEL #008-120-13SP ALTERNATOR
23 - CCT CONTROL CIRCUIT TRANSFORMER
24 - HT HEATER
25 - FUSE BLOCKS
26 - ULC ULTRASONIC LEVEL CONTROLLER
MILTRONICS HYDRO RANGER PLUS
27 - FL FLASHER
28 - TSA TERMINAL STRIP A
29 - TSB TERMINAL STRIP B
30 - TSC TERMINAL STRIP C
31 - TSD TERMINAL STRIP D
32 - TSE TERMINAL STRIP E





* NOTE *
ENCLOSURES GOING INTO A NON-FLOOD ZONE WILL BE 60" X 36" X 12" - 316 SS
230V CONTROL PANELS WILL NOT HAVE A CPT
480V CONTROL PANELS CPT WILL BE SHIPPED LOOSE FOR REMOTE MOUNTING

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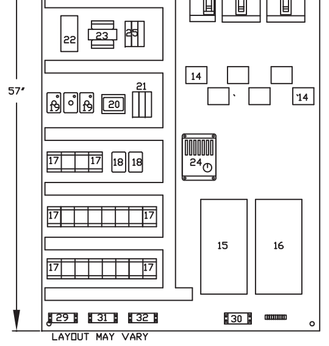
18 - MC1-2 MINICAS 1-2
19 - TDI-3 TIME DELAY 1-3
20 - PM PHASE MONITOR
21 - FUSE BLOCKS
22 - MPE, INC. MODEL #008-120-13SP ALTERNATOR
23 - CCT CONTROL CIRCUIT TRANSFORMER
24 - HT HEATER
25 - FUSE BLOCKS
26 - ULC ULTRASONIC LEVEL CONTROLLER MILTRONICS HYDRO RANGER PLUS
27 - FL FLASHER
28 - TSA TERMINAL STRIP A
29 - TSB TERMINAL STRIP B
30 - TSC TERMINAL STRIP C
31 - TSD TERMINAL STRIP D
32 - TSE TERMINAL STRIP E



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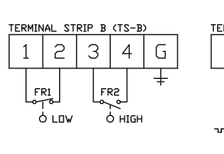
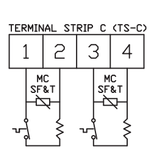
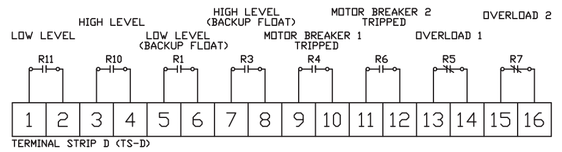
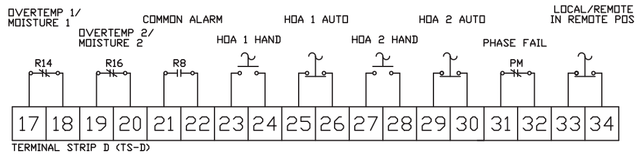
30 - TSC TERMINAL STRIP C
31 - TSD TERMINAL STRIP D
32 - TSE TERMINAL STRIP E

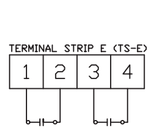


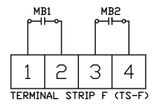


Dry contacts leaving panel powered by other source
REMOTE ALARMS









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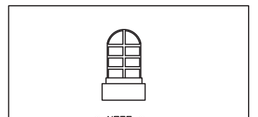

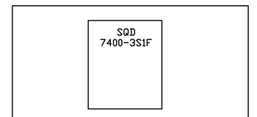

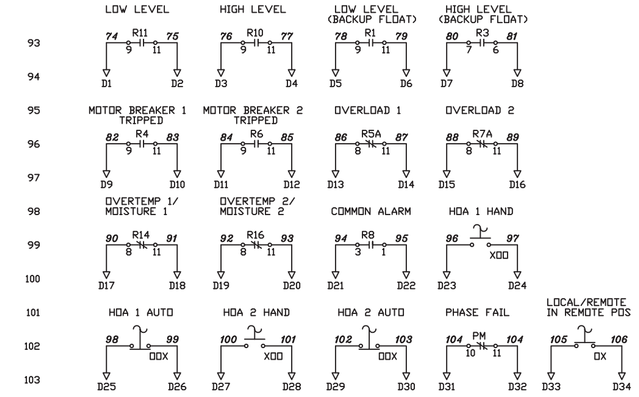

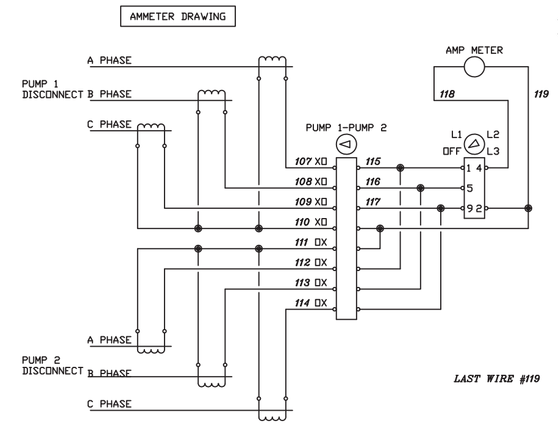

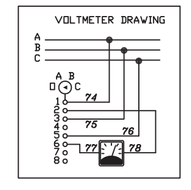

CUSTOMER	CUSTOMER				
JOB NAME	JOB-NAME				
VOLTAGE	VOLTAGE	PHASE	PHASE	HZ	HZ
H.P.	#1 HP	#2 HP	#3 HP	#4 HP	
F.L.A.	FLA	FLA	FLA	FLA	FLA
TOTAL F.L.A.	TOTAL-FLA				
SERIAL #	SERIAL#				

SUBMERSIBLE PUMP STATION ELECTRICAL SCHEMATICS

CHARLESTON WATER SYSTEM

PUMP STATION ELECTRICAL SCHEMATIC FOR UNDER 20 HP

APPROVED BY:	DATE:	DRAWING NO.
CWS	NOV 2005	60
SCALE: NTS	REVISED: FEB 2010	