SYMBOLS

DISCONNECT (3 PHASE)

CIRCUIT BREAKER (3 PHASE)

LIMIT SWITCH:
- ZSO – LIMIT SWITCH TO PROVE VALVE IN OPEN POSITION
- ZSC – LIMIT SWITCH TO PROVE VALVE IN CLOSED POSITION
- ZSL – LIMIT SWITCH TO PROVE VALVE IN MINIMUM STOP POSITION

LEVEL SWITCH (NORMALLY OPEN)

LEVEL SWITCH (NORMALLY CLOSED)

PRESSURE SWITCH (NORMALLY OPEN)

PRESSURE SWITCH (NORMALLY CLOSED)

TEMPERATURE SWITCH (NORMALLY OPEN)

TEMPERATURE SWITCH (NORMALLY CLOSED)

FLOW SWITCH (NORMALLY OPEN)

FLOW SWITCH (NORMALLY CLOSED)

SELECTOR SWITCH – 2 POSITION (MULTIPLE POLE – 2 SHOWN) (SOLID INDICATES CONTACT CONDITION – OPEN OR CLOSED – WHEN SELECTOR IS IN POSITION SHOWN BY SOLID LINE)

SELECTOR SWITCH – 3 POSITION (OR MORE) (MULTIPLE POLE – 2 SHOWN) (X INDICATES CONTACT CLOSED IN SELECTOR POSITION ABOVE) (O INDICATES CONTACT OPEN IN SELECTOR POSITION ABOVE)

PUSHBUTTON SWITCH – MOMENTARY (NORMALLY OPEN)

PUSHBUTTON SWITCH – MOMENTARY (NORMALLY CLOSED)

RELAY CONTACT – NORMALLY OPEN (CLOSED WHEN COIL ENERGIZED)

RELAY CONTACT – NORMALLY CLOSED (OPEN WHEN COIL ENERGIZED)

TIMER CONTACT–ON DELAY, NORMALLY OPEN SEQUENCE:
- COIL DE–ENERGIZED–CONTACT OPEN
- COIL ENERGIZED–CONTACT OPEN, TIMING BEGINS
- TIME OUT–CONTACT CLOSES

TIMER CONTACT–ON DELAY, NORMALLY CLOSED SEQUENCE:
- COIL DE–ENERGIZED–CONTACT CLOSED
- COIL ENERGIZED–CONTACT CLOSED, TIMING BEGINS
- TIME OUT–CONTACT OPENS

TIMER CONTACT–OFF DELAY, NORMALLY OPEN SEQUENCE:
- COIL DE–ENERGIZED–CONTACT OPEN
- COIL ENERGIZED–CONTACT CLOSED
- COIL DE–ENERGIZED–CONTACT CLOSED, TIMING BEGINS
- TIME OUT–CONTACT OPENS

TIMER CONTACT–OFF DELAY, NORMALLY CLOSED SEQUENCE:
- COIL DE–ENERGIZED–CONTACT CLOSED
- COIL ENERGIZED–CONTACT OPEN
- COIL DE–ENERGIZED–CONTACT OPEN, TIMING BEGINS
- TIME OUT–CONTACT CLOSES

CR — CONTROL RELAY COIL

TR — TIMER COIL

SOLENOID VALVE

IGNITION TRANSFORMER

H1 H3 H2 H4 / X1 X3 X2 X4 — 480V / 120V CONTROL POWER TRANSFORMER

M — MOTOR (SINGLE PHASE)

M — MOTOR (3 PHASE)

HEATER — HEATING ELEMENT

FUSE

R — LIGHT (COLOR INDICATED BY LETTER)

AUDIBLE ALARM

DIODE

BATTERY

GROUND

FACTORY WIRING

FIELD AND/OR CUSTOMER WIRING

PURCHASED ITEM, SEE SPEC. SHTS.

THERMOCOUPLE

TERMINAL IN PNL–101 (NUMBERED)

TERMINAL IN PNL–102 (NUMBERED)

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APPROVED FOR CONSTRUCTION

Notes :

No.	Date	By	Chk'd	App'd	Description (Revisions)	Dwg. No.	Subject (Reference Drawings)

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Drawn	SF
Date	3/1/91
Scale	NONE
Checked	DAVID
App'd	JRH

Customer: B.F.I.

ELECTRICAL SYMBOLS LEGEND

IT McGill — Pollution Control Systems, Tulsa, Oklahoma

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