



CONTROL PHILOSOPHY:

- POWER ON INDICATOR LIGHT
 - ILLUMINATES WHEN 120VAC POWER IS AVAILABLE
- GRINDER CONTROL MODE SELECTOR SWITCH, MAN
 - CONTROL BY REVERSE-STOP-FORWARD SELECTOR SWITCH, FORWARD/REVERSE RELAYS AND INDICATOR LAMPS
- GRINDER CONTROL MODE SELECTOR SWITCH, AUTO
 - GRINDER AUTOMATICALLY RUNS FORWARD OR CLEARS JAMS (SEE GRINDER JAM CLEARING SEQUENCE BELOW)
- GRINDER CONTROL MODE SELECTOR SWITCH, PLC
 - REMOTELY START/STOP GRINDER THROUGH DIGITAL OUTPUT RELAY CONTACT FROM SPS-ICP-4XX; GRINDER RUNS FORWARD OR CLEARS JAMS (SEE GRINDER JAM CLEARING SEQUENCE BELOW)
- ALARM RESET PUSHBUTTON
 - RESETS GRINDER FAULT LATCH RELAY AND CLEAR ALARM LIGHT
- GRINDER JAMMED INDICATOR LIGHT
 - ILLUMINATES WHEN A JAM CONDITION IS ON (SEE GRINDER JAM CLEARING SEQUENCE BELOW)
- GRINDER FAULT INDICATOR LIGHT
 - ILLUMINATES WHEN ALARM CONDITION IS SET FOR ANY OF THE FOLLOWING: (I) GRINDER JAM, (II) GRINDER MOTOR OVERLOAD, (III) GRINDER MOTOR HIGH TEMP
- EMERGENCY STOP PUSHBUTTON
 - SHUTDOWN ALL GRINDER CONTROL MODES, DE-ENERGIZE MOTOR CONTACTORS
- GRINDER JAM CLEARING SEQUENCE
 - WHEN THE CURRENT SENSOR DETECTS A JAM, THE MOTOR FORWARD CONTACTOR WILL BE MOMENTARILY DE-ENERGIZED
 - THE MOTOR REVERSE CONTACTOR WILL BE ENERGIZED FOR A PRE-DETERMINED PERIOD OF TIME AND RE-ENERGIZED
 - THE MOTOR FORWARD CONTACTOR WILL BE RE-ENERGIZED
 - THIS SEQUENCE IS REPEATED, AS REQUIRED, TO CLEAR THE JAM FOR A TOTAL OF NO MORE THAN 3 REVERSALS IN A 30-SECOND PERIOD.
 - IF THE JAM IS NOT CLEARED IN ACCORDANCE WITH THIS SEQUENCE, AN ALARM CONDITION IS SET
 - IN ORDER TO AVOID NUISANCE TRIPS, THE INRUSH CURRENT IS IGNORED FOR A PRE-DEFINED PERIOD WHEN THE MOTOR IS ENERGIZED.

NOTES:

1. SHORT CIRCUIT CURRENT (SCCR) FOR THE CONTROLLER IS 18KA @ 600V.
2. A JUMPER IS PRE-INSTALLED; INSTALLATION CONTRACTOR TO REMOVE AND CONNECT TO GRINDER MOTOR OVER TEMPERATURE.
3. ALL FAULT CONDITIONS TO BE WIRED TO THE PLC AS FAIL SAFE CONTACTS.



**PUBLIC WORKS
STANDARD DRAWING**

**INLET GRINDER CONTROL
PANEL SCHEMATIC**

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APPROVED BY MM	DRAWN BY ERAMOSA
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