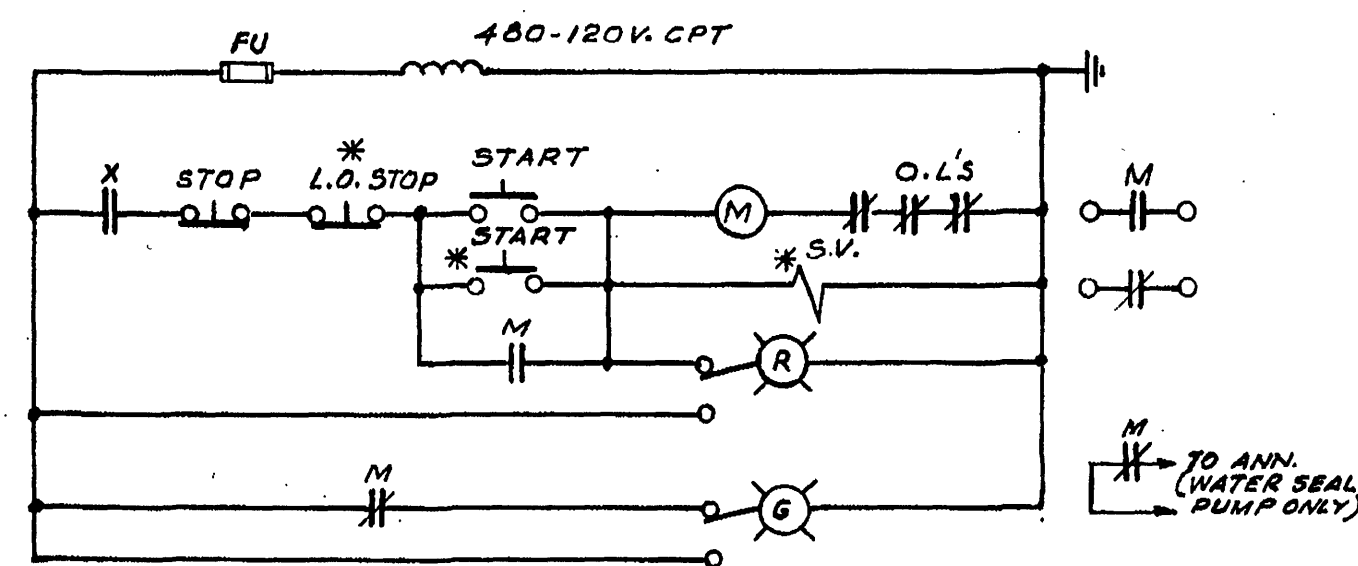
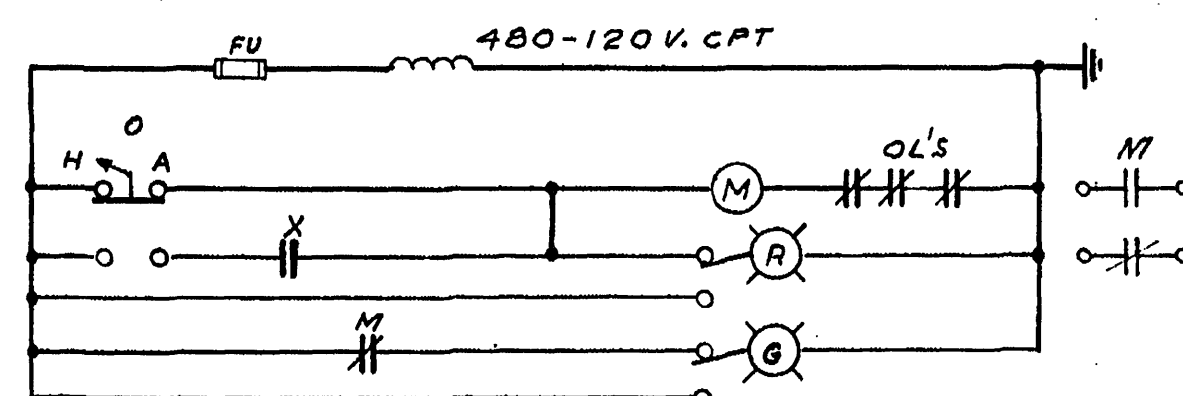




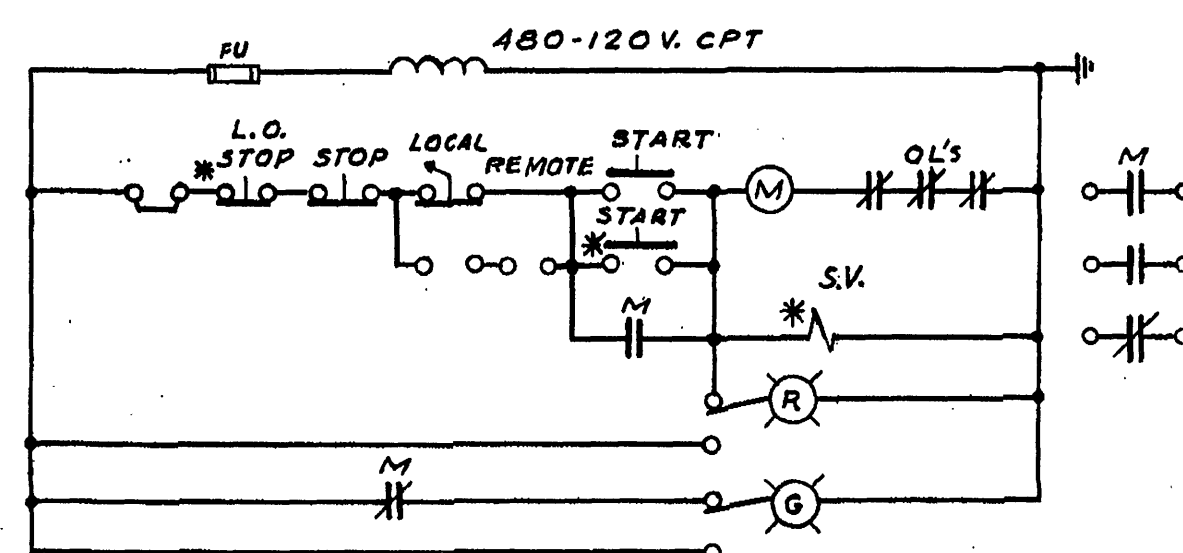
SCHEMATIC A

SCHEMATIC A1 SAME AS SCHEMATIC A EXCEPT W/O X
 SCHEMATIC A2 SAME AS SCHEMATIC A EXCEPT W/O X & SV.
 SCHEMATIC A3 SAME AS SCHEMATIC A EXCEPT W/O X,
 S.V. & LOCAL START-STOP PB.

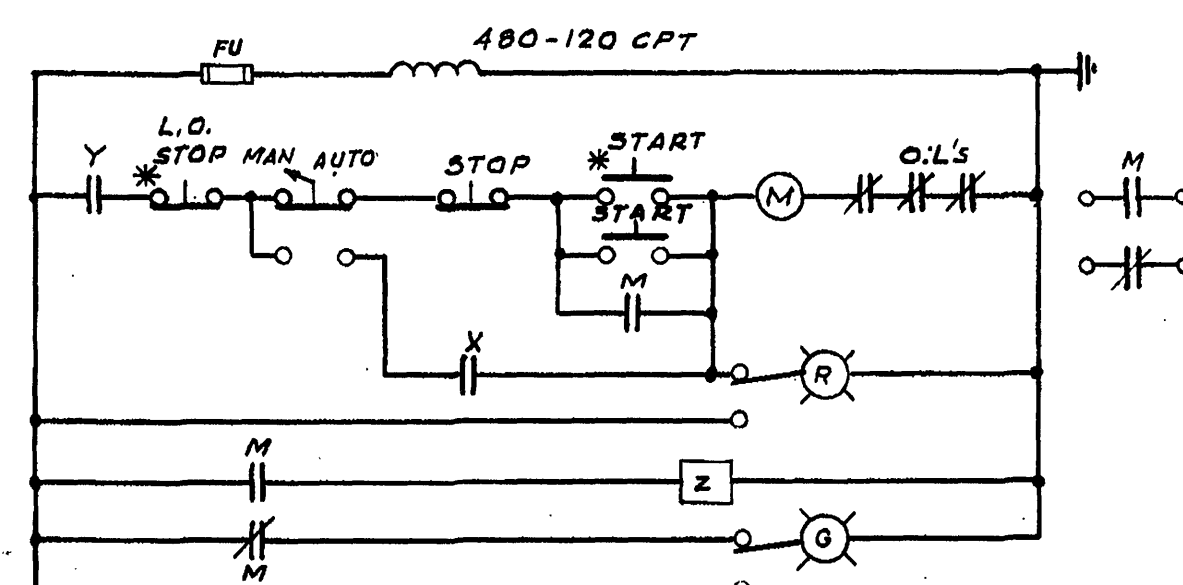


SCHEMATIC B

SCHEMATIC B1 SAME AS SCHEMATIC B EXCEPT H-O-A SW
 IS LOCALLY MOUNTED

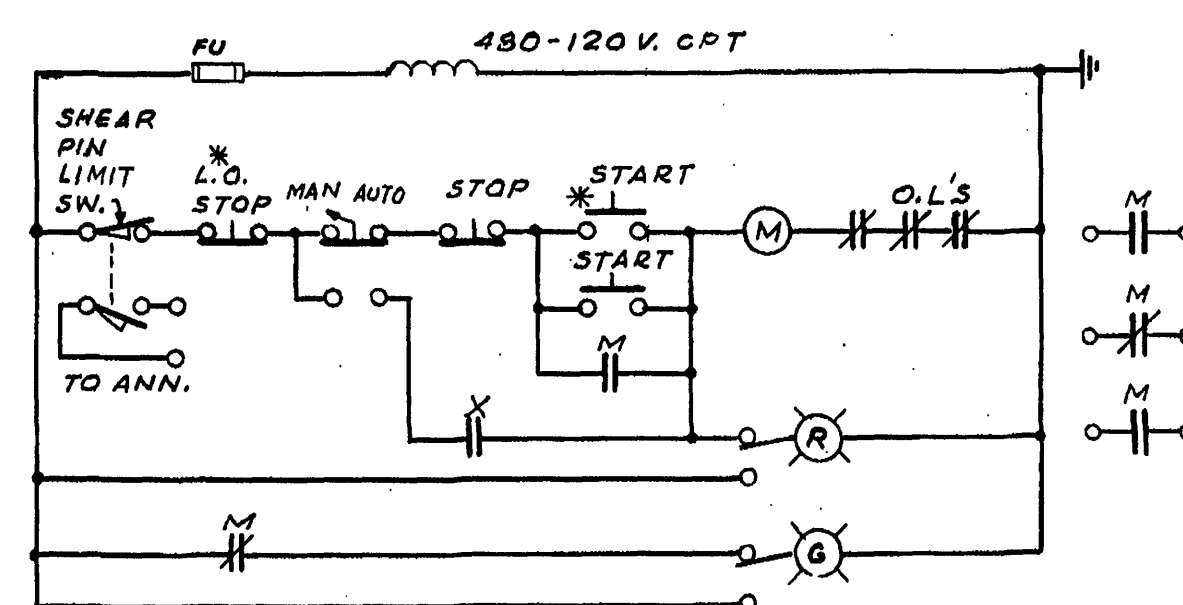


SCHEMATIC C

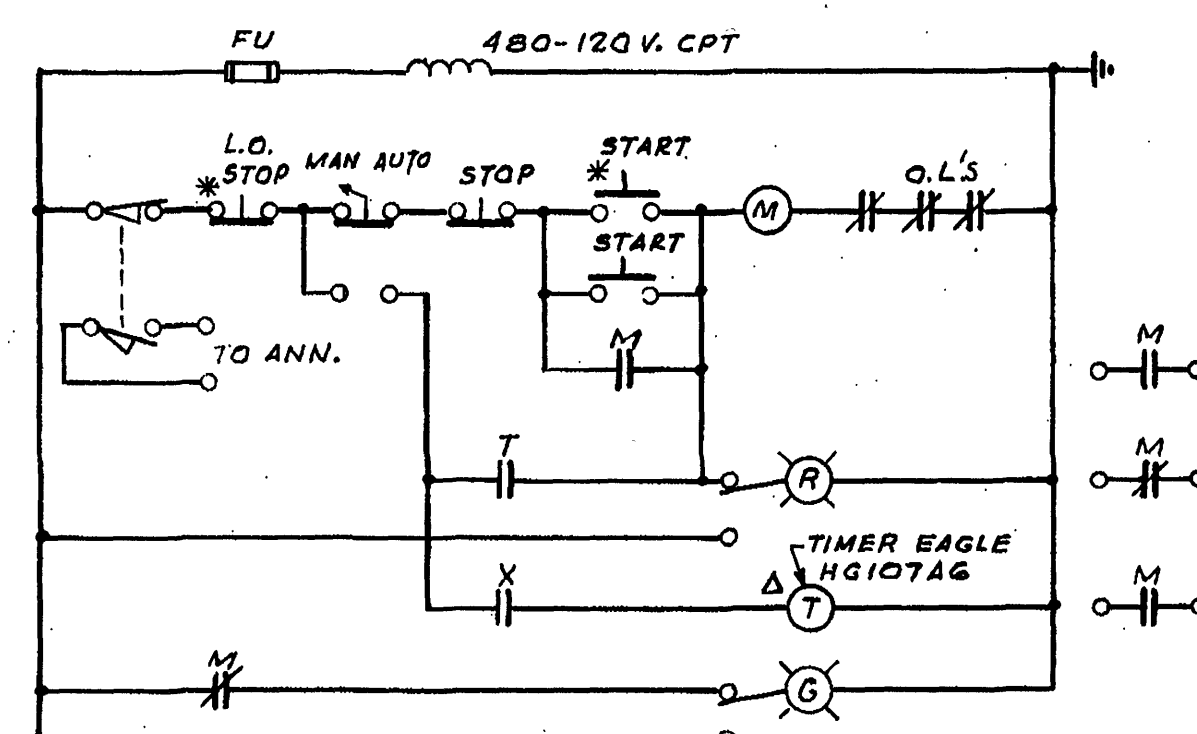


SCHEMATIC D

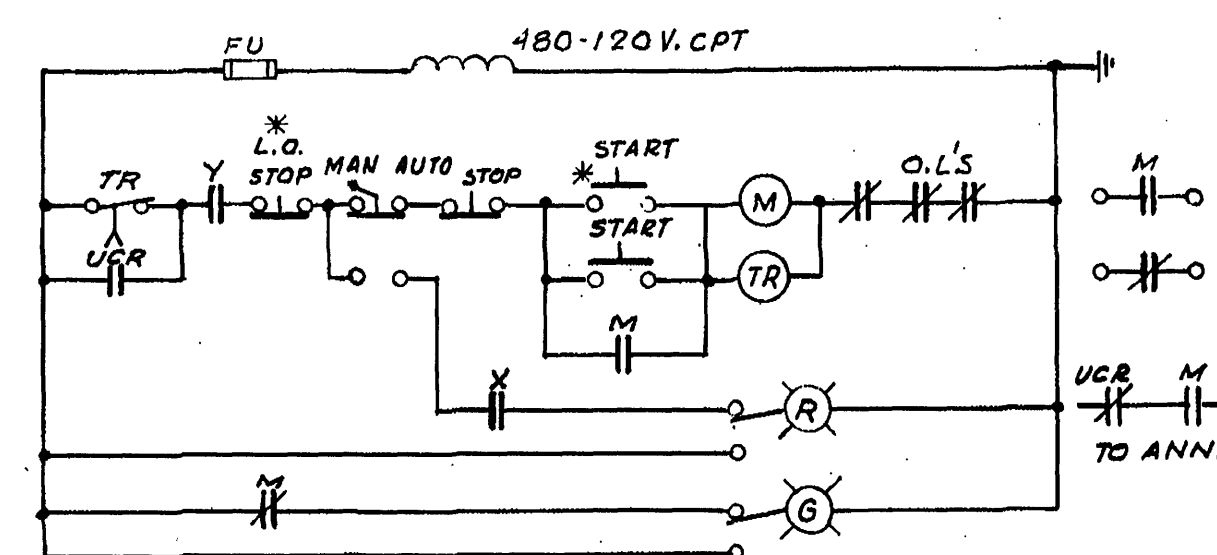
SCHEMATIC D1 SAME AS SCHEMATIC D EXCEPT W/O Z
 SCHEMATIC D2 SAME AS SCHEMATIC D EXCEPT W/O Y AND Z



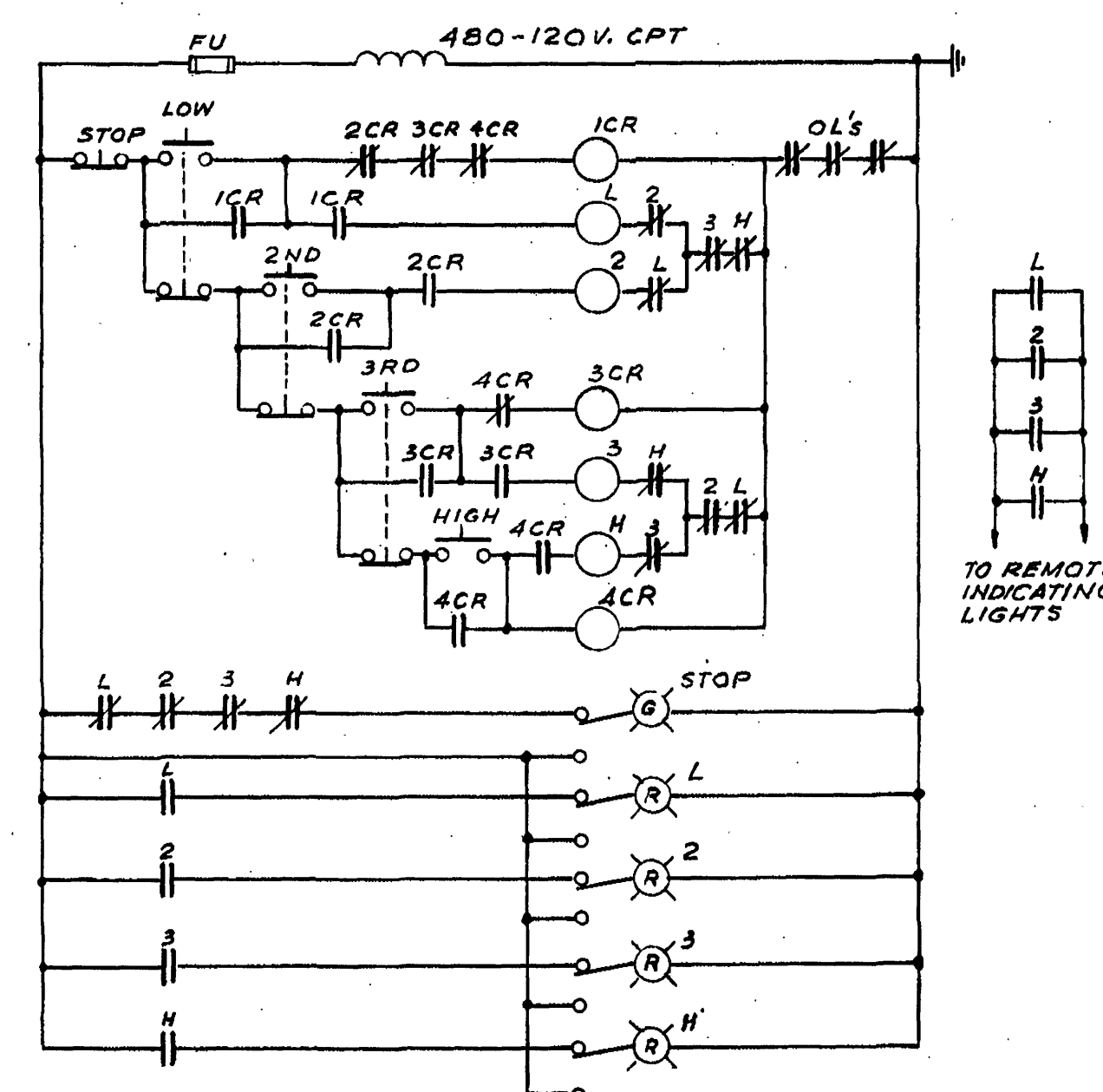
SCHEMATIC DS1



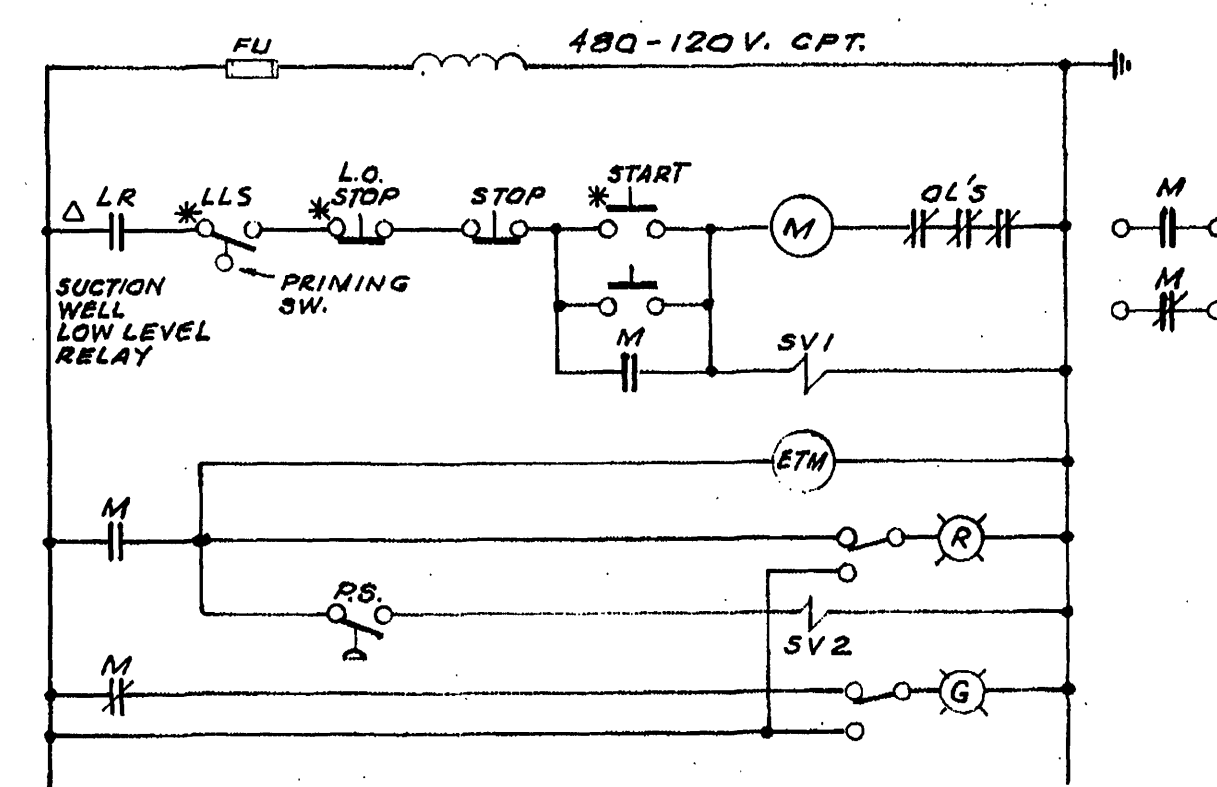
SCHEMATIC DS2



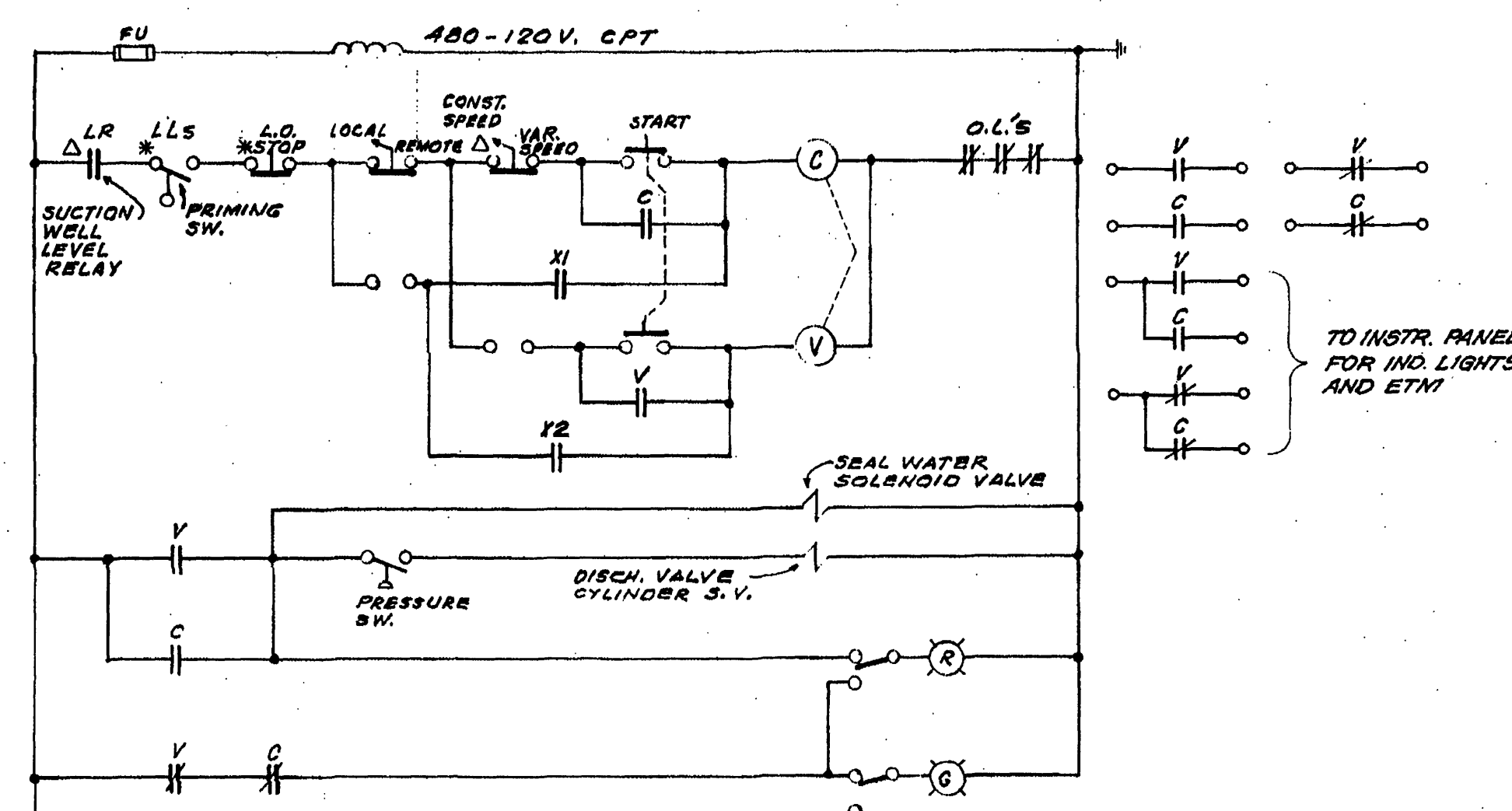
SCHEMATIC E



SCHEMATIC F



SCHEMATIC A4



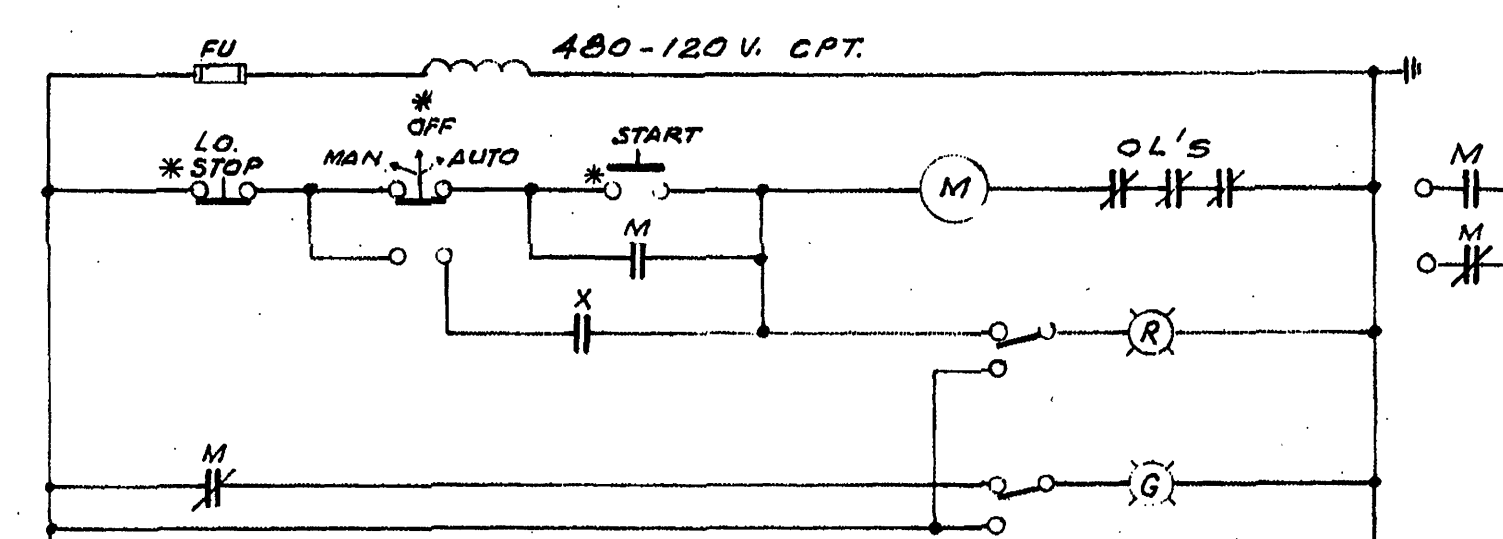
NO. OF EXTRA AUX. CONTACTS SHALL BE
 PROVIDED AS REQUIRED.

X1, X2-COMBINATION OF CONTROL CONTACTS
 FROM INSTRUMENT PANEL AND/OR PUMP
 SEQUENCE CONTROLLER.

FOR W.W. PUMP #3 "V" CONTACTOR IS NOT REQUIRED
 HOWEVER THE STARTER SHALL BE AUTO-TRANSF.
 REDUCED VOLTAGE TYPE.

SCHEMATIC G

(FOR W.W. PUMPS, SW. PUMPS AND RETURN ACTIVATED SLUDGE PUMPS)



SCHEMATIC H

△-IN INSTRUMENT PANEL
 *-LOCAL
 UCR-UNDER CURRENT RELAY
 ADDITIONAL AUX. CONTACTS SHALL BE
 PROVIDED FOR CONTROL INTERLOCKS
 & REMOTE INDICATION AS REQUIRED.

CONTR. "E"

ADDITIONS TO SEWAGE TREATMENT PLANT
 ROANOKE, VIRGINIA

**ELECTRICAL
 SCHEMATIC DIAGRAMS**

ALVORD, BURDICK & HOWSON
 ENGINEERS CHICAGO

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