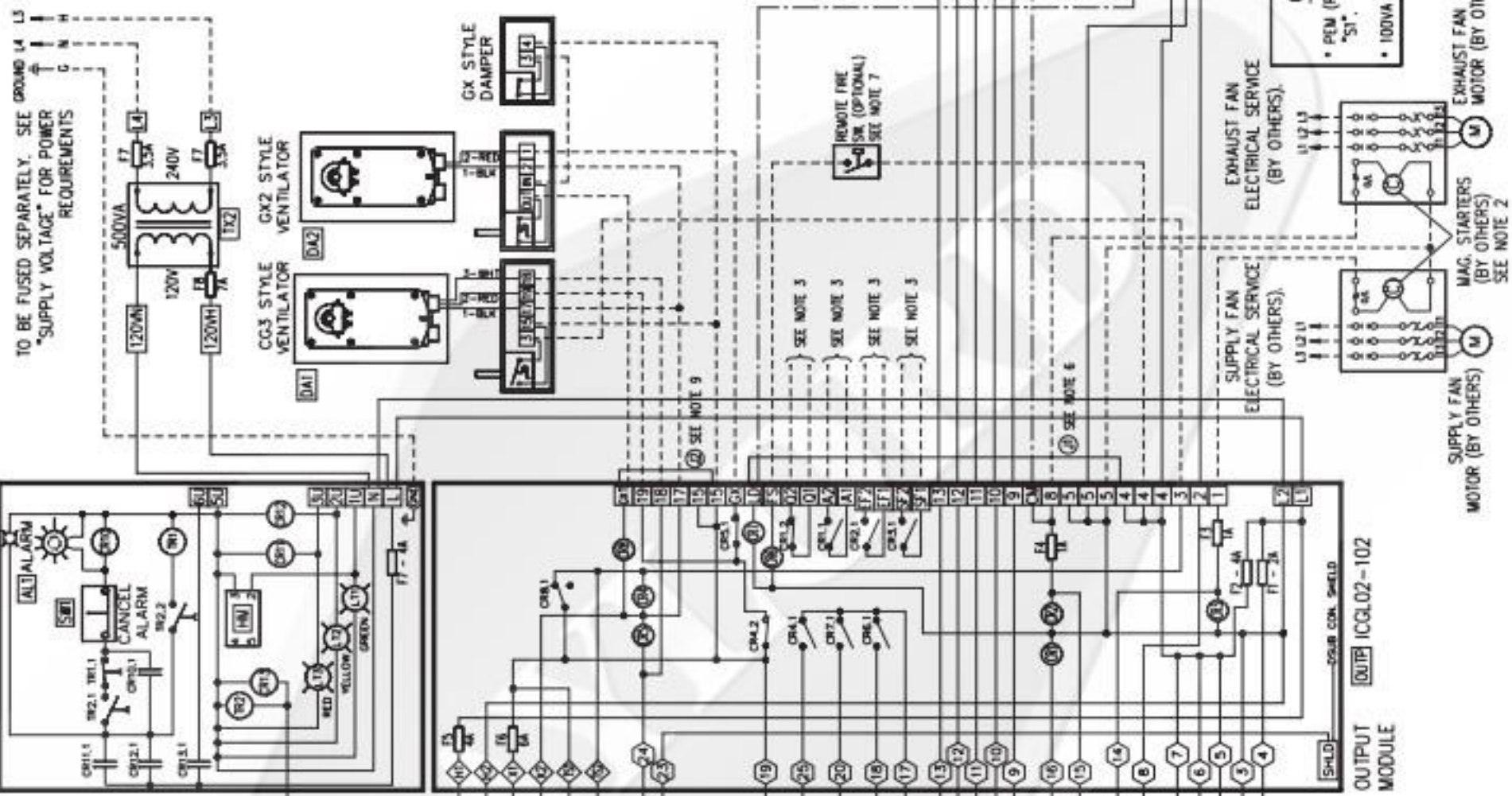


LT1-TEXT = "UV SYSTEM ON"  
 LT2-TEXT = "UV LAMP FAILURE"  
 LT3-TEXT = "UV SAFETY INTERLOCK ACTIVATED"

220 VAC, 50-60HZ, 600 WATTS MAXIMUM  
 5 AMPS MAXIMUM

- GENERAL NOTES
1. ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.
  2. THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.
  3. ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALING ARE RATED FOR 3A @ 240 VAC.
  4. FIRE SWITCH TERMINALS A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.



TO BE FUSED SEPARATELY. SEE GROUND L4  
 "SUPPLY VOLTAGE" FOR POWER REQUIREMENTS

SHOP NOTE:  
 TR1 TIMING RELAY IS SET FOR 1 SEC. DURING AN ALARM INPUT TR1 IS CLOSED FOR 1 SEC TO LATCH THE ALARM CIRCUIT.  
 TR2 TIMING RELAY IS SET FOR 1 MIN. THE CONTACTS ARE OPEN FOR 1 MIN. TO KEEP THE HOLDING CIRCUIT FOR THE ALARM DE-ENERGIZED SO THAT THE FAN CAN GET UP TO SPEED AND PREVENT FALSE ALARMS DURING FAN START UP. TR2 IS ENERGIZED WHENEVER THE FAN CIRCUIT IS POWERED.

PLC I/O SCHEDULE	
INPUTS	OUTPUTS
Y0.0 FIRE INTERLOCK (DI)	Y0.0 WASH ON/PI SOLENOID VALVE
Y0.1 REMOTE FIRE SWITCH (DI)	Y0.1 FIRE ALARM RELAY
Y0.2 DETERGENT FLOW SW (DI)	Y0.2 DETERGENT PUMP
Y0.3 JAMPER TO DISABLE WASH (DI)	Y0.3 EXHAUST FAN
Y0.4 SOLENOID DURING FIRE (DI)	Y0.4 SUPPLY FAN
Y0.5 WASH ON/PI SOLENOID VALVE (DI)	Y0.5 COLD DAMPER TO WASH POSITION
Y0.6 WASH ON/PI SOLENOID VALVE (DI)	Y0.6 WASH ON/PI SOLENOID VALVE
Y0.7 WASH ON/PI SOLENOID VALVE (DI)	Y0.7 WASH ON/PI SOLENOID VALVE
Y0.8 WASH ON/PI SOLENOID VALVE (DI)	Y0.8 WASH ON/PI SOLENOID VALVE
Y0.9 WASH ON/PI SOLENOID VALVE (DI)	Y0.9 WASH ON/PI SOLENOID VALVE
Y0.10 WASH ON/PI SOLENOID VALVE (DI)	Y0.10 WASH ON/PI SOLENOID VALVE
Y0.11 WASH ON/PI SOLENOID VALVE (DI)	Y0.11 WASH ON/PI SOLENOID VALVE
Y0.12 WASH ON/PI SOLENOID VALVE (DI)	Y0.12 WASH ON/PI SOLENOID VALVE
Y0.13 WASH ON/PI SOLENOID VALVE (DI)	Y0.13 WASH ON/PI SOLENOID VALVE
Y0.14 WASH ON/PI SOLENOID VALVE (DI)	Y0.14 WASH ON/PI SOLENOID VALVE
Y0.15 WASH ON/PI SOLENOID VALVE (DI)	Y0.15 WASH ON/PI SOLENOID VALVE
Y0.16 WASH ON/PI SOLENOID VALVE (DI)	Y0.16 WASH ON/PI SOLENOID VALVE
Y0.17 WASH ON/PI SOLENOID VALVE (DI)	Y0.17 WASH ON/PI SOLENOID VALVE
Y0.18 WASH ON/PI SOLENOID VALVE (DI)	Y0.18 WASH ON/PI SOLENOID VALVE
Y0.19 WASH ON/PI SOLENOID VALVE (DI)	Y0.19 WASH ON/PI SOLENOID VALVE
Y0.20 WASH ON/PI SOLENOID VALVE (DI)	Y0.20 WASH ON/PI SOLENOID VALVE
Y0.21 WASH ON/PI SOLENOID VALVE (DI)	Y0.21 WASH ON/PI SOLENOID VALVE
Y0.22 WASH ON/PI SOLENOID VALVE (DI)	Y0.22 WASH ON/PI SOLENOID VALVE
Y0.23 WASH ON/PI SOLENOID VALVE (DI)	Y0.23 WASH ON/PI SOLENOID VALVE
Y0.24 WASH ON/PI SOLENOID VALVE (DI)	Y0.24 WASH ON/PI SOLENOID VALVE
Y0.25 WASH ON/PI SOLENOID VALVE (DI)	Y0.25 WASH ON/PI SOLENOID VALVE
Y0.26 WASH ON/PI SOLENOID VALVE (DI)	Y0.26 WASH ON/PI SOLENOID VALVE
Y0.27 WASH ON/PI SOLENOID VALVE (DI)	Y0.27 WASH ON/PI SOLENOID VALVE
Y0.28 WASH ON/PI SOLENOID VALVE (DI)	Y0.28 WASH ON/PI SOLENOID VALVE
Y0.29 WASH ON/PI SOLENOID VALVE (DI)	Y0.29 WASH ON/PI SOLENOID VALVE
Y0.30 WASH ON/PI SOLENOID VALVE (DI)	Y0.30 WASH ON/PI SOLENOID VALVE
Y0.31 WASH ON/PI SOLENOID VALVE (DI)	Y0.31 WASH ON/PI SOLENOID VALVE
Y0.32 WASH ON/PI SOLENOID VALVE (DI)	Y0.32 WASH ON/PI SOLENOID VALVE
Y0.33 WASH ON/PI SOLENOID VALVE (DI)	Y0.33 WASH ON/PI SOLENOID VALVE
Y0.34 WASH ON/PI SOLENOID VALVE (DI)	Y0.34 WASH ON/PI SOLENOID VALVE
Y0.35 WASH ON/PI SOLENOID VALVE (DI)	Y0.35 WASH ON/PI SOLENOID VALVE
Y0.36 WASH ON/PI SOLENOID VALVE (DI)	Y0.36 WASH ON/PI SOLENOID VALVE
Y0.37 WASH ON/PI SOLENOID VALVE (DI)	Y0.37 WASH ON/PI SOLENOID VALVE
Y0.38 WASH ON/PI SOLENOID VALVE (DI)	Y0.38 WASH ON/PI SOLENOID VALVE
Y0.39 WASH ON/PI SOLENOID VALVE (DI)	Y0.39 WASH ON/PI SOLENOID VALVE
Y0.40 WASH ON/PI SOLENOID VALVE (DI)	Y0.40 WASH ON/PI SOLENOID VALVE
Y0.41 WASH ON/PI SOLENOID VALVE (DI)	Y0.41 WASH ON/PI SOLENOID VALVE
Y0.42 WASH ON/PI SOLENOID VALVE (DI)	Y0.42 WASH ON/PI SOLENOID VALVE
Y0.43 WASH ON/PI SOLENOID VALVE (DI)	Y0.43 WASH ON/PI SOLENOID VALVE
Y0.44 WASH ON/PI SOLENOID VALVE (DI)	Y0.44 WASH ON/PI SOLENOID VALVE
Y0.45 WASH ON/PI SOLENOID VALVE (DI)	Y0.45 WASH ON/PI SOLENOID VALVE
Y0.46 WASH ON/PI SOLENOID VALVE (DI)	Y0.46 WASH ON/PI SOLENOID VALVE
Y0.47 WASH ON/PI SOLENOID VALVE (DI)	Y0.47 WASH ON/PI SOLENOID VALVE
Y0.48 WASH ON/PI SOLENOID VALVE (DI)	Y0.48 WASH ON/PI SOLENOID VALVE
Y0.49 WASH ON/PI SOLENOID VALVE (DI)	Y0.49 WASH ON/PI SOLENOID VALVE
Y0.50 WASH ON/PI SOLENOID VALVE (DI)	Y0.50 WASH ON/PI SOLENOID VALVE

SHOP NOTE:  
 WIRING BY GAYLORD  
 FIELD WIRING BY OTHERS  
 OPTIONAL WIRING BY GAYLORD

SHOP NOTE:  
 24VAC CONNECTED TO COMMON FOR OUTPUTS 0 & 1 ONLY.  
 ALL OTHER COMMONS CONNECTED TO 120VAC.

ATM CONTROLS ALL STATUS MESSAGES, FAN ON, WASH ON, TEST, CANCEL, AND WASH TIME SELECT FUNCTIONS VIA COMS PORT.



LEGEND  
 CONTROL RELAY  
 TERMINAL STRIP CONNECTION  
 WIRE NUMBER  
 PLC CONNECTOR

24VDC OUT  
 POWER SUPPLY  
 VAC IN

GENERAL NOTES  
 • PEM (PLC EXPANSION MODULE) NOT REQUIRED FOR AN "S1". PEM IS REQUIRED FOR AN "S2" OR HIGHER.  
 • 100VA TRANSFORMER GOOD FOR UP TO 10 DAMPERS.

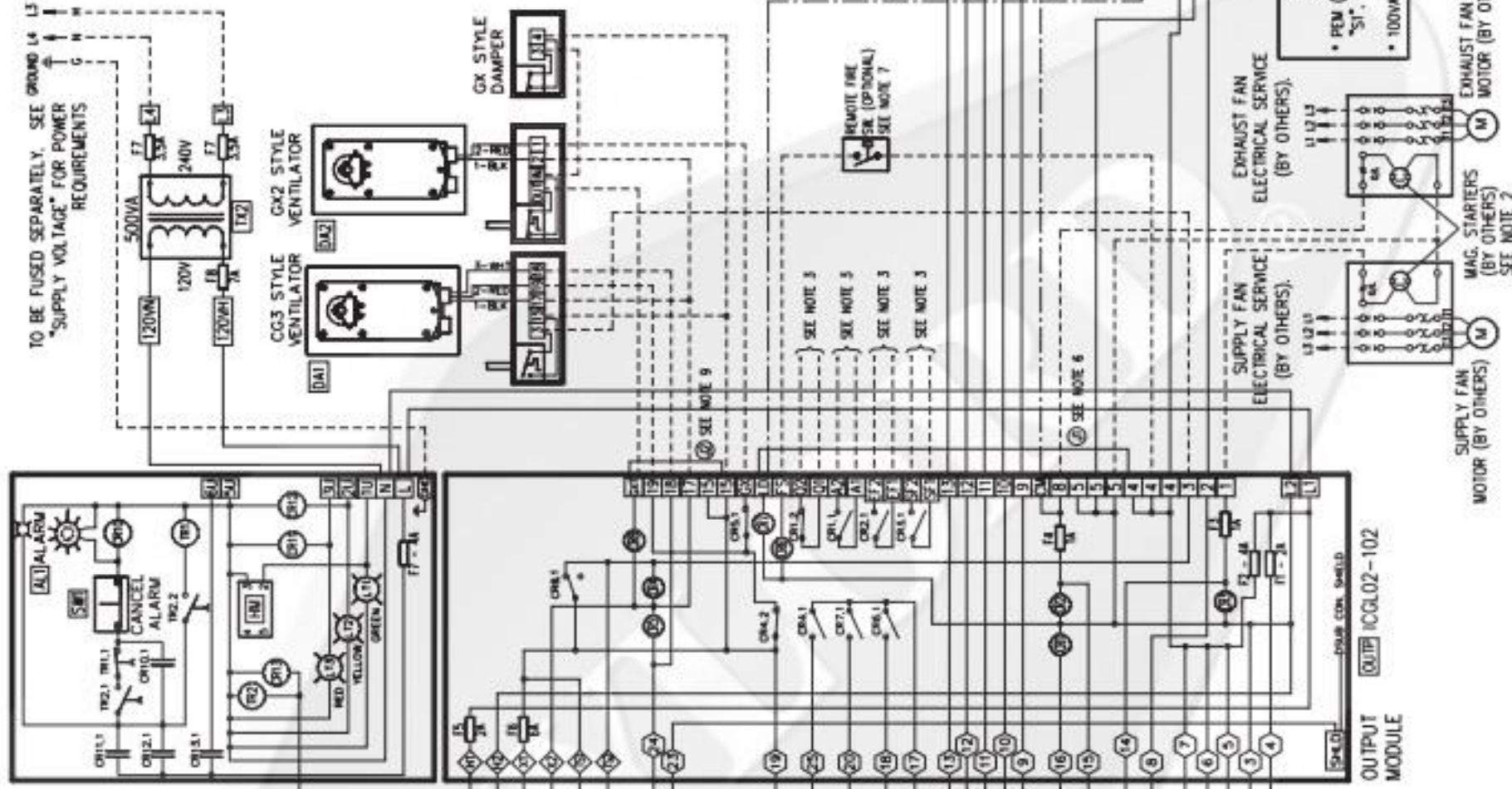


LT1-TEXT = "UV SYSTEM ON"  
 LT2-TEXT = "UV LAMP FAILURE"  
 LT3-TEXT = "UV SAFETY INTERLOCK ACTIVATED"

220 VAC, 50-60Hz, 600 WATTS MAXIMUM  
 5 AMP'S MAXIMUM

- GENERAL NOTES
1. ALL EXTERNAL CONTROL WIRING SHALL BE 1/2 GAUGE MINIMUM OR AS PER APPLICABLE CODES.
  2. THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.
  3. ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALING ARE RATED FOR 3A @ 240 VAC.
  4. FIRE SWITCH TERMINALS A,B,C'S TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSOR MICROSWITCH AND/OR REMOTE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".
  5. FIRE SYSTEM TERMINALS D1 & D2 CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.
  6. LOW DETERGENT TERMINALS A,B,L0 DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE. CUT JUMPER (A1), AND REMOVE ANY JUMPER BETWEEN M1 & L0 WHEN INSTALLING FLOW SWITCH.
  7. IN EXTERNAL FIRE MODE (REMOTE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE-ENERGIZES SHUTTING OFF SUPPLY FAN TERMINAL #8 ENERGIZES TURNING ON EXHAUST FAN.
  8. IN INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE-ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.
  9. CUT JUMPER (A2), AND REMOVE ANY JUMPER BETWEEN #15 & #17 WHEN G22 OR H-97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

TO BE FUSED SEPARATELY. SEE GROUND L4 L3  
 "SUPPLY VOLTAGE" FOR POWER REQUIREMENTS



SHOP NOTE:  
 TR1 TIMING RELAY IS SET FOR 1 SEC. DURING AN ALARM INPUT TR1 IS CLOSED FOR 1 SEC TO LATCH THE ALARM CIRCUIT.  
 TR2 TIMING RELAY IS SET FOR 1 MIN. THE CONTACTS ARE OPEN FOR 1 MIN. TO KEEP THE HOLDING CIRCUIT FOR THE ALARM DE-ENERGIZED SO THAT THE FAN CAN GET UP TO SPEED AND PREVENT FALSE ALARMS DURING FAN START UP. TR2 IS ENERGIZED WHENEVER THE FAN CIRCUIT IS POWERED.

PLC I/O SCHEDULE	
INPUTS	OUTPUTS
#0.0 FIRE THERMOSTAT (OPT) #0.1 REMOTE FIRE SWITCH (OPT) #0.2 DETECTANT FLOW SW. (OPT) #0.3 JUMPER TO DISABLE WASH SOLENOIDS DURING FIRE MODES (OPT) #0.4 WASH THERMOSTAT (OPT) #0.5 JUMPER FOR UV TX FAN ON/WASH DELAY (OPT) #0.6-#0.7 RESERVED	#Y0.0 WASH (OPT) SOLENOID VALVE #Y0.1 FIRE ALARM RELAY #Y0.2 DETURGENT PUMP #Y0.3 EXHAUST FAN #Y0.4 SUPPLY FAN #Y0.5 WASH (OPT) SOLENOID VALVE #Y0.6 WASH (OPT) SOLENOID VALVE #Y0.7 WASH (OPT) SOLENOID VALVE #Y0.8 WASH (OPT) SOLENOID VALVE #Y0.9 WASH (OPT) SOLENOID VALVE #Y1.0 WASH (OPT) SOLENOID VALVE #Y1.1 WASH (OPT) SOLENOID VALVE #Y1.2 WASH (OPT) SOLENOID VALVE #Y1.3 WASH (OPT) SOLENOID VALVE #Y1.4 WASH (OPT) SOLENOID VALVE #Y1.5 WASH (OPT) SOLENOID VALVE #Y1.6 WASH (OPT) SOLENOID VALVE #Y1.7 WASH (OPT) SOLENOID VALVE #Y1.8 WASH (OPT) SOLENOID VALVE #Y1.9 WASH (OPT) SOLENOID VALVE #Y2.0 WASH (OPT) SOLENOID VALVE #Y2.1 WASH (OPT) SOLENOID VALVE #Y2.2 WASH (OPT) SOLENOID VALVE #Y2.3 WASH (OPT) SOLENOID VALVE #Y2.4 WASH (OPT) SOLENOID VALVE #Y2.5 WASH (OPT) SOLENOID VALVE #Y2.6 WASH (OPT) SOLENOID VALVE #Y2.7 WASH (OPT) SOLENOID VALVE #Y2.8 WASH (OPT) SOLENOID VALVE #Y2.9 WASH (OPT) SOLENOID VALVE #Y3.0 WASH (OPT) SOLENOID VALVE #Y3.1 WASH (OPT) SOLENOID VALVE #Y3.2 WASH (OPT) SOLENOID VALVE #Y3.3 WASH (OPT) SOLENOID VALVE #Y3.4 WASH (OPT) SOLENOID VALVE #Y3.5 WASH (OPT) SOLENOID VALVE #Y3.6 WASH (OPT) SOLENOID VALVE #Y3.7 WASH (OPT) SOLENOID VALVE #Y3.8 WASH (OPT) SOLENOID VALVE #Y3.9 WASH (OPT) SOLENOID VALVE #Y4.0 WASH (OPT) SOLENOID VALVE #Y4.1 WASH (OPT) SOLENOID VALVE #Y4.2 WASH (OPT) SOLENOID VALVE #Y4.3 WASH (OPT) SOLENOID VALVE #Y4.4 WASH (OPT) SOLENOID VALVE #Y4.5 WASH (OPT) SOLENOID VALVE #Y4.6 WASH (OPT) SOLENOID VALVE #Y4.7 WASH (OPT) SOLENOID VALVE #Y4.8 WASH (OPT) SOLENOID VALVE #Y4.9 WASH (OPT) SOLENOID VALVE #Y5.0 WASH (OPT) SOLENOID VALVE #Y5.1 WASH (OPT) SOLENOID VALVE #Y5.2 WASH (OPT) SOLENOID VALVE #Y5.3 WASH (OPT) SOLENOID VALVE #Y5.4 WASH (OPT) SOLENOID VALVE #Y5.5 WASH (OPT) SOLENOID VALVE #Y5.6 WASH (OPT) SOLENOID VALVE #Y5.7 WASH (OPT) SOLENOID VALVE #Y5.8 WASH (OPT) SOLENOID VALVE #Y5.9 WASH (OPT) SOLENOID VALVE #Y6.0 WASH (OPT) SOLENOID VALVE #Y6.1 WASH (OPT) SOLENOID VALVE #Y6.2 WASH (OPT) SOLENOID VALVE #Y6.3 WASH (OPT) SOLENOID VALVE #Y6.4 WASH (OPT) SOLENOID VALVE #Y6.5 WASH (OPT) SOLENOID VALVE #Y6.6 WASH (OPT) SOLENOID VALVE #Y6.7 WASH (OPT) SOLENOID VALVE #Y6.8 WASH (OPT) SOLENOID VALVE #Y6.9 WASH (OPT) SOLENOID VALVE #Y7.0 WASH (OPT) SOLENOID VALVE #Y7.1 WASH (OPT) SOLENOID VALVE #Y7.2 WASH (OPT) SOLENOID VALVE #Y7.3 WASH (OPT) SOLENOID VALVE #Y7.4 WASH (OPT) SOLENOID VALVE #Y7.5 WASH (OPT) SOLENOID VALVE #Y7.6 WASH (OPT) SOLENOID VALVE #Y7.7 WASH (OPT) SOLENOID VALVE #Y7.8 WASH (OPT) SOLENOID VALVE #Y7.9 WASH (OPT) SOLENOID VALVE #Y8.0 WASH (OPT) SOLENOID VALVE #Y8.1 WASH (OPT) SOLENOID VALVE #Y8.2 WASH (OPT) SOLENOID VALVE #Y8.3 WASH (OPT) SOLENOID VALVE #Y8.4 WASH (OPT) SOLENOID VALVE #Y8.5 WASH (OPT) SOLENOID VALVE #Y8.6 WASH (OPT) SOLENOID VALVE #Y8.7 WASH (OPT) SOLENOID VALVE #Y8.8 WASH (OPT) SOLENOID VALVE #Y8.9 WASH (OPT) SOLENOID VALVE #Y9.0 WASH (OPT) SOLENOID VALVE #Y9.1 WASH (OPT) SOLENOID VALVE #Y9.2 WASH (OPT) SOLENOID VALVE #Y9.3 WASH (OPT) SOLENOID VALVE #Y9.4 WASH (OPT) SOLENOID VALVE #Y9.5 WASH (OPT) SOLENOID VALVE #Y9.6 WASH (OPT) SOLENOID VALVE #Y9.7 WASH (OPT) SOLENOID VALVE #Y9.8 WASH (OPT) SOLENOID VALVE #Y9.9 WASH (OPT) SOLENOID VALVE

SHOP NOTE:  
 WIRING BY GAYLORD  
 FIELD WIRING BY OTHERS  
 OPTIONAL WIRING BY GAYLORD

SHOP NOTE:  
 24VAC CONNECTED TO COMMON FOR OUTPUTS 0 & 1 ONLY. ALL OTHER COMMONS CONNECTED TO 120VAC.

ATM CONTROLS ALL STATUS MESSAGES, FAN ON, WASH ON, TEST, CANCEL, AND WASH TIME SELECT FUNCTIONS VIA COMS PORT.



LEGEND

- ⊙ CONTROL RELAY
- ⊞ TERMINAL STRIP CONNECTION
- ⊕ WIRE NUMBER
- ⊞ PLC CONNECTOR

GENERAL NOTES

- PEM (PLC EXPANSION MODULE) NOT REQUIRED FOR AN "S1". PEM IS REQUIRED FOR AN "S2" OR HIGHER.
- 100VA TRANSFORMER GOOD FOR UP TO 10 DAMPERS.

EXHAUST FAN MOTOR (BY OTHERS)  
 MAG. STARTERS (BY OTHERS) SEE NOTE 2  
 SUPPLY FAN MOTOR (BY OTHERS)  
 SUPPLY FAN ELECTRICAL SERVICE (BY OTHERS)  
 EXHAUST FAN ELECTRICAL SERVICE (BY OTHERS)

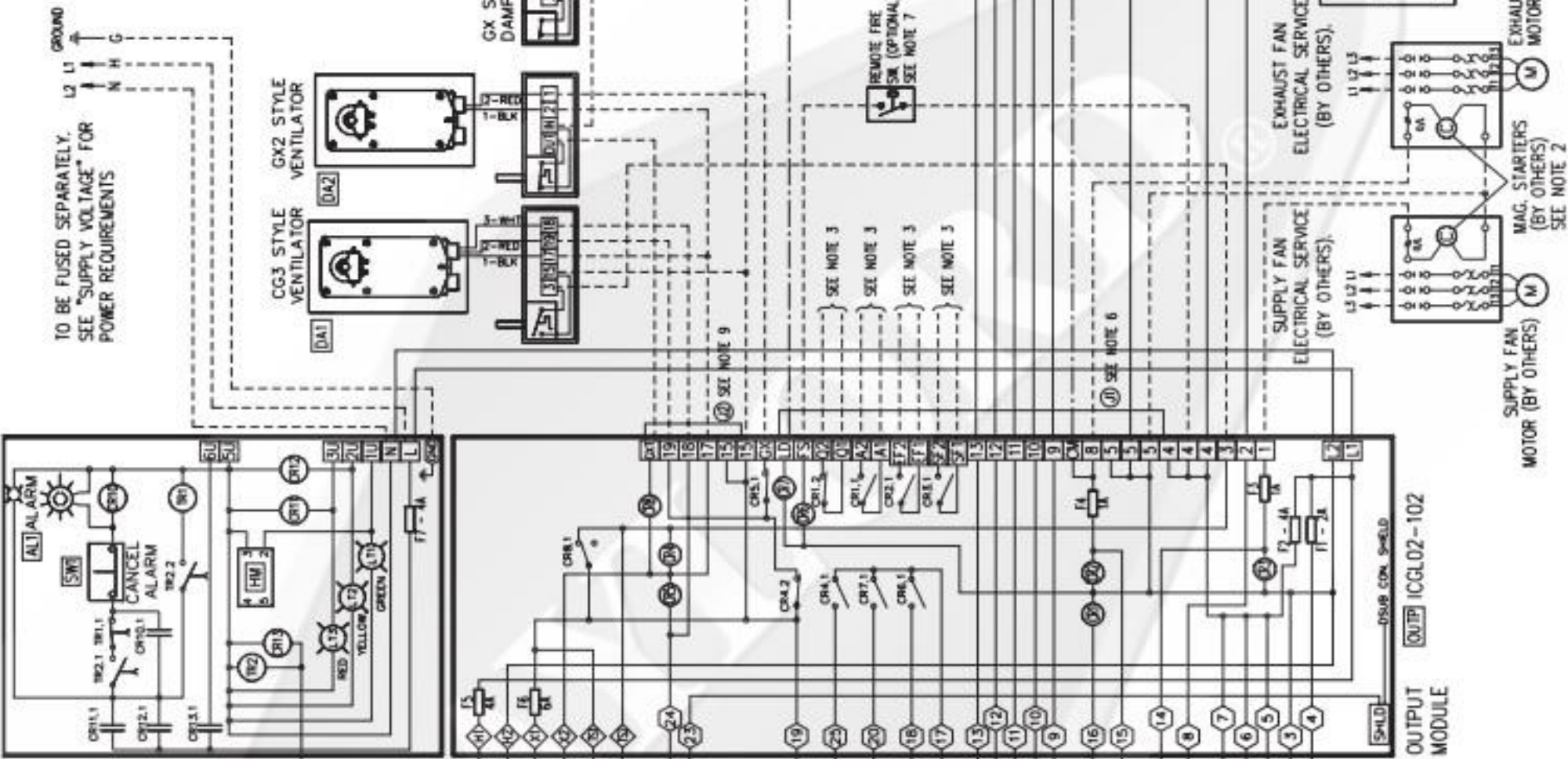
LT1-TEXT = "UV SYSTEM ON"  
 LT2-TEXT = "UV LAMP FAILURE"  
 LT3-TEXT = "UV SAFETY INTERLOCK ACTIVATED"

120 VAC, 50-60Hz, 600 WATTS MAXIMUM  
 5 AMPS, MAXIMUM

- GENERAL NOTES**
1. ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.
  2. THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.
  3. ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALING ARE RATED FOR 3A @ 240 VAC.
  4. FIRE SWITCH TERMINALS A, B & C TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSION MICROSWITCH AND/OR REMOVE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".
  5. FIRE SYSTEM TERMINALS D1 & D2 CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.
  6. LOW DETERGENT TERMINALS A & LD DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE. CUT JUMPER (J1) AND REMOVE ANY JUMPER BETWEEN #4 & LD WHEN INSTALLING FLOW SWITCH.
  7. IN EXTERNAL FIRE MODE (REMOVE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE-ENERGIZES SHUTTING OFF SUPPLY FAN TERMINAL #8 DEENERGIZES TURNING ON EXHAUST FAN.
  8. IN INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE-ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.
  9. CUT JUMPER (J1) AND REMOVE ANY JUMPER BETWEEN #15 & G1T WHEN G1T OR N-97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

**GENERAL NOTES**

- PEM (PLC EXPANSION MODULE) NOT REQUIRED FOR AN "S1". PEM IS REQUIRED FOR AN "S2" OR HIGHER.
- 100VA TRANSFORMER GOOD FOR UP TO 10 DAMPERS.



**SHOP NOTE:**  
 TR1 TIMING RELAY IS SET FOR 1 SEC. DURING AN ALARM INPUT TR1 IS CLOSED FOR 1 SEC TO LATCH THE ALARM CIRCUIT.  
 TR2 TIMING RELAY IS SET FOR 1 MIN. THE CONTACTS ARE OPEN FOR 1 MIN. TO KEEP THE HOLDING CIRCUIT FOR THE ALARM DE-ENERGIZED SO THAT THE FAN CAN GET UP TO SPEED AND PREVENT FALSE ALARMS DURING FAN START UP. TR2 IS ENERGIZED WHENEVER THE FAN CIRCUIT IS POWERED.

**PLC I/O SCHEDULE**

INPUTS	OUTPUTS
X0.0: FIRE THERMOSTAT	Y0.0: WASH (DP1) SOLENOID VALVE
X0.1: REMOTE FIRE SWITCH	Y0.1: FIRE ALARM RELAY
X0.2: DETERGENT FLOW SW. (DP1)	Y0.2: DETERGENT PUMP
X0.3: JUMPER TO DISABLE WASH SOLENOIDS DURING FIRE MODES	Y0.3: EXHAUST FAN
X0.4: SUPPLY FAN	Y0.4: SUPPLY FAN
X0.5: CO2 DAMPER TO WASH POSITION	Y0.5: CO2 DAMPER
X0.6: WASH PERMISSION (DP1)	Y1.0: WASH (DP1) SOLENOID VALVE
X0.7: JUMPER FOR UV EX. FAN ON/WASH DELAY (DP1)	Y1.1: WASH (DP1) SOLENOID VALVE
X0.8-10.7: RESERVED	Y1.2: WASH (DP1) SOLENOID VALVE

NOTE: EXPANSION MODULE IS OUTPUT ONLY. IT HAS NO INPUTS.

**WIRING BY GAYLORD**  
 FIELD WIRING BY OTHERS  
 OPTIONAL WIRING BY GAYLORD

**SHOP NOTE:**  
 24VAC CONNECTED TO COMMON FOR OUTPUTS 0 & 1 ONLY. ALL OTHER COMMONS CONNECTED TO 120VAC.

ATM CONTROLS ALL STATUS MESSAGES, FAN ON, WASH ON, TEST, CANCEL, AND WASH TIME SELECT FUNCTIONS VIA COMS PORT.

LT1-TEXT = "UV SYSTEM ON"  
 LT2-TEXT = "UV LAMP FAILURE"  
 LT3-TEXT = "UV SAFETY INTERLOCK ACTIVATED"

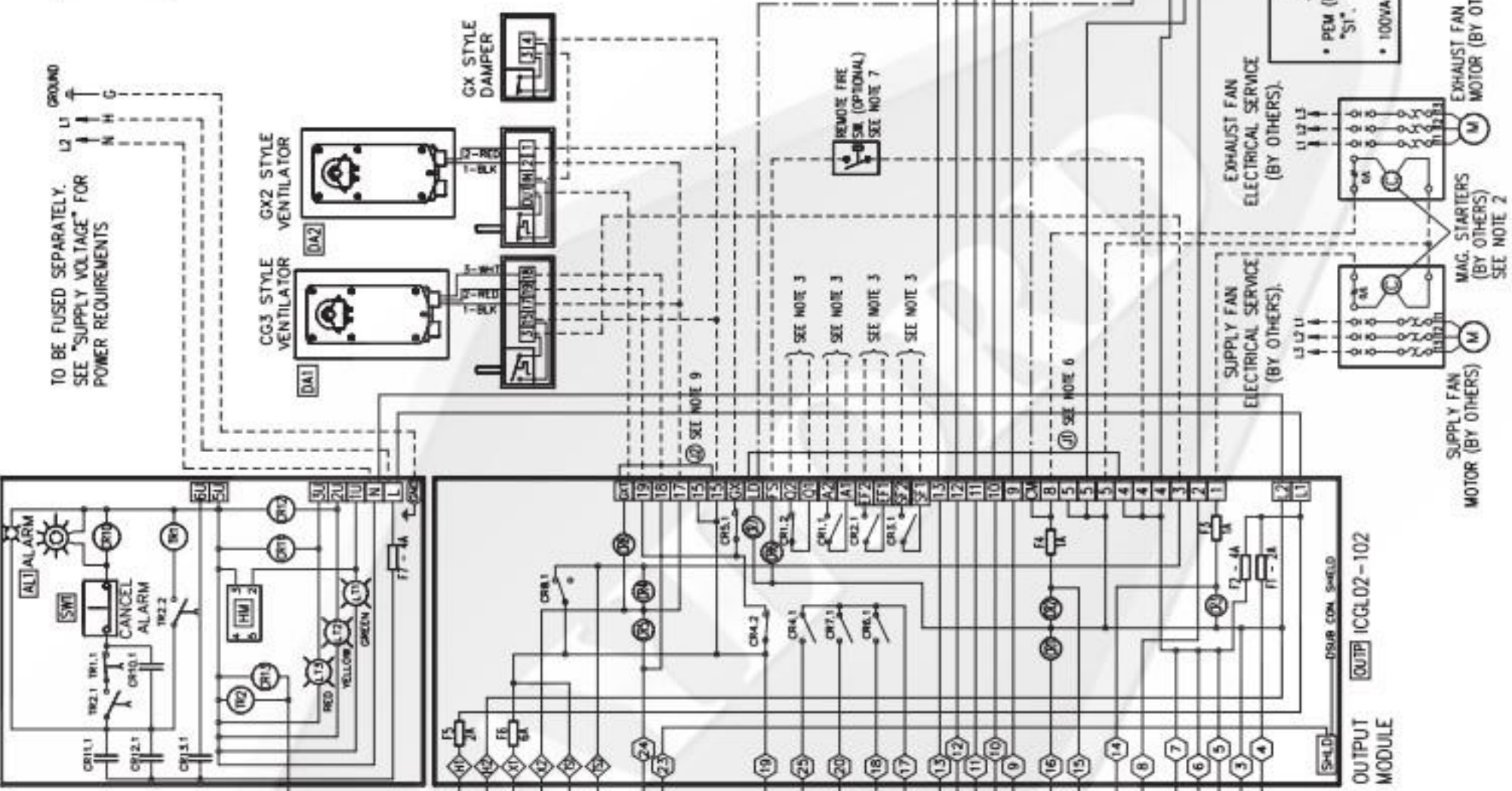
--- SUPPLY VOLTAGE ---  
 120 VAC, 50-60Hz, 600 WATTS MAXIMUM  
 5 AMPS, MAXIMUM.

- GENERAL NOTES
1. ALL EXTERNAL CONTROL WIRING SHALL BE 12 GAUGE MINIMUM OR AS PER APPLICABLE CODES.
  2. THE HOLDING COILS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.
  3. ALL VOLTAGE FREE CONTACTS FOR EXTERNAL SIGNALING ARE RATED FOR 3A @ 240 VAC.
  4. FIRE SWITCH TERMINALS A & B TERMINALS FOR NORMALLY OPEN FIRE SUPPRESSION MICROSWITCH AND/OR REMOTE FIRE SWITCH WHICH ACTIVATES THE "EXTERNAL FIRE MODE".
  5. FIRE SYSTEM TERMINALS O1 & O2 CONTACTS OPEN WHEN CONTROL GOES INTO INTERNAL OR EXTERNAL FIRE MODES.
  6. LOW DETERGENT TERMINALS A & LD DISPLAY WILL FLASH "LOW DETERGENT" WHEN ACTIVATED AND NOT IN WASH MODE. CUT JUMPER (J1) AND REMOVE ANY JUMPER BETWEEN J4 & J5 WHEN INSTALLING FLOW SWITCH.
  7. IN EXTERNAL FIRE MODE (REMOTE FIRE SWITCH CONTACTS CLOSED) TERMINAL #1 DE-ENERGIZES SHUTTING OFF SUPPLY FAN TERMINAL #8 EMERGENTS TURNING ON EXHAUST FAN.
  8. IN INTERNAL FIRE MODE (THERMOSTAT ACTIVATED) TERMINALS #1 AND #8 DE-ENERGIZE, SHUTTING OFF EXHAUST AND SUPPLY FANS.
  9. CUT JUMPER (J2) AND REMOVE ANY JUMPER BETWEEN #15 & #16 WHEN O2 OR H-97 DAMPER MOTORS ARE CONNECTED TO THIS CONTROL CABINET.

**GENERAL NOTES**

- PEM (PLC EXPANSION MODULE) NOT REQUIRED FOR AN "S1". PEM IS REQUIRED FOR AN "S2" OR HIGHER.
- 100VA TRANSFORMER GOOD FOR UP TO 10 DAMPERS.

TO BE FUSED SEPARATELY. SEE "SUPPLY VOLTAGE" FOR POWER REQUIREMENTS



SHOP NOTE:  
 TR1 TIMING RELAY IS SET FOR 1 SEC. DURING AN ALARM INPUT TR1 IS CLOSED FOR 1 SEC TO LATCH THE ALARM CIRCUIT.  
 TR2 TIMING RELAY IS SET FOR 1 MIN. THE CONTACTS ARE OPEN FOR 1 MIN. TO KEEP THE HOLDING CIRCUIT FOR THAT THE FAN CAN GET UP TO SPEED AND PREVENT FALSE ALARMS DURING FAN START UP. TR2 IS ENERGIZED WHENEVER THE FAN CIRCUIT IS POWERED.

PLC I/O SCHEDULE	
INPUTS	OUTPUTS
X0: FIRE THERMOSTAT	Y0: WASH OP/PA SOLENOID VALVE
X1: REMOTE FIRE SWITCH (OPT)	Y1: FIRE ALARM RELAY
X2: DETERGENT FLOW SW (OPT)	Y2: DETERGENT PUMP
X3: JUMPER TO DISABLE WASH SOLENOIDS DURING FIRE	Y3: EXHAUST FAN
X4: WASH PERMISSION (OPT)	Y4: SUPPLY FAN
X5: JUMPER FOR UV EX. FAN	Y5: CG3 DAMPER TO WASH POSITION
X6-10: RESERVED	Y6: WASH OP/PA SOLENOID VALVE
	Y7: WASH OP/PA SOLENOID VALVE
	Y8: WASH OP/PA SOLENOID VALVE
	Y9: WASH OP/PA SOLENOID VALVE
	Y10: WASH OP/PA SOLENOID VALVE
	Y11: WASH OP/PA SOLENOID VALVE
	Y12: WASH OP/PA SOLENOID VALVE
	Y13: WASH OP/PA SOLENOID VALVE
	Y14: WASH OP/PA SOLENOID VALVE
	Y15: WASH OP/PA SOLENOID VALVE
	Y16: WASH OP/PA SOLENOID VALVE
	Y17: WASH OP/PA SOLENOID VALVE
	Y18: WASH OP/PA SOLENOID VALVE
	Y19: WASH OP/PA SOLENOID VALVE
	Y20: WASH OP/PA SOLENOID VALVE
	Y21: WASH OP/PA SOLENOID VALVE
	Y22: WASH OP/PA SOLENOID VALVE
	Y23: WASH OP/PA SOLENOID VALVE
	Y24: WASH OP/PA SOLENOID VALVE
	Y25: WASH OP/PA SOLENOID VALVE
	Y26: WASH OP/PA SOLENOID VALVE
	Y27: WASH OP/PA SOLENOID VALVE
	Y28: WASH OP/PA SOLENOID VALVE
	Y29: WASH OP/PA SOLENOID VALVE
	Y30: WASH OP/PA SOLENOID VALVE
	Y31: WASH OP/PA SOLENOID VALVE
	Y32: WASH OP/PA SOLENOID VALVE
	Y33: WASH OP/PA SOLENOID VALVE
	Y34: WASH OP/PA SOLENOID VALVE
	Y35: WASH OP/PA SOLENOID VALVE
	Y36: WASH OP/PA SOLENOID VALVE
	Y37: WASH OP/PA SOLENOID VALVE
	Y38: WASH OP/PA SOLENOID VALVE
	Y39: WASH OP/PA SOLENOID VALVE
	Y40: WASH OP/PA SOLENOID VALVE
	Y41: WASH OP/PA SOLENOID VALVE
	Y42: WASH OP/PA SOLENOID VALVE
	Y43: WASH OP/PA SOLENOID VALVE
	Y44: WASH OP/PA SOLENOID VALVE
	Y45: WASH OP/PA SOLENOID VALVE
	Y46: WASH OP/PA SOLENOID VALVE
	Y47: WASH OP/PA SOLENOID VALVE
	Y48: WASH OP/PA SOLENOID VALVE
	Y49: WASH OP/PA SOLENOID VALVE
	Y50: WASH OP/PA SOLENOID VALVE
	Y51: WASH OP/PA SOLENOID VALVE
	Y52: WASH OP/PA SOLENOID VALVE
	Y53: WASH OP/PA SOLENOID VALVE
	Y54: WASH OP/PA SOLENOID VALVE
	Y55: WASH OP/PA SOLENOID VALVE
	Y56: WASH OP/PA SOLENOID VALVE
	Y57: WASH OP/PA SOLENOID VALVE
	Y58: WASH OP/PA SOLENOID VALVE
	Y59: WASH OP/PA SOLENOID VALVE
	Y60: WASH OP/PA SOLENOID VALVE
	Y61: WASH OP/PA SOLENOID VALVE
	Y62: WASH OP/PA SOLENOID VALVE
	Y63: WASH OP/PA SOLENOID VALVE
	Y64: WASH OP/PA SOLENOID VALVE
	Y65: WASH OP/PA SOLENOID VALVE
	Y66: WASH OP/PA SOLENOID VALVE
	Y67: WASH OP/PA SOLENOID VALVE
	Y68: WASH OP/PA SOLENOID VALVE
	Y69: WASH OP/PA SOLENOID VALVE
	Y70: WASH OP/PA SOLENOID VALVE
	Y71: WASH OP/PA SOLENOID VALVE
	Y72: WASH OP/PA SOLENOID VALVE
	Y73: WASH OP/PA SOLENOID VALVE
	Y74: WASH OP/PA SOLENOID VALVE
	Y75: WASH OP/PA SOLENOID VALVE
	Y76: WASH OP/PA SOLENOID VALVE
	Y77: WASH OP/PA SOLENOID VALVE
	Y78: WASH OP/PA SOLENOID VALVE
	Y79: WASH OP/PA SOLENOID VALVE
	Y80: WASH OP/PA SOLENOID VALVE
	Y81: WASH OP/PA SOLENOID VALVE
	Y82: WASH OP/PA SOLENOID VALVE
	Y83: WASH OP/PA SOLENOID VALVE
	Y84: WASH OP/PA SOLENOID VALVE
	Y85: WASH OP/PA SOLENOID VALVE
	Y86: WASH OP/PA SOLENOID VALVE
	Y87: WASH OP/PA SOLENOID VALVE
	Y88: WASH OP/PA SOLENOID VALVE
	Y89: WASH OP/PA SOLENOID VALVE
	Y90: WASH OP/PA SOLENOID VALVE
	Y91: WASH OP/PA SOLENOID VALVE
	Y92: WASH OP/PA SOLENOID VALVE
	Y93: WASH OP/PA SOLENOID VALVE
	Y94: WASH OP/PA SOLENOID VALVE
	Y95: WASH OP/PA SOLENOID VALVE
	Y96: WASH OP/PA SOLENOID VALVE
	Y97: WASH OP/PA SOLENOID VALVE
	Y98: WASH OP/PA SOLENOID VALVE
	Y99: WASH OP/PA SOLENOID VALVE
	Y100: WASH OP/PA SOLENOID VALVE

SHOP NOTE:  
 24VAC CONNECTED TO COMMON FOR OUTPUTS 0 & 1 ONLY. ALL OTHER COMMONS CONNECTED TO 120VAC.

ATM CONTROLS ALL STATUS MESSAGES, FAN ON, WASH ON, TEST, CANCEL, AND WASH TIME SELECT FUNCTIONS VIA COMS PORT.



LEGEND

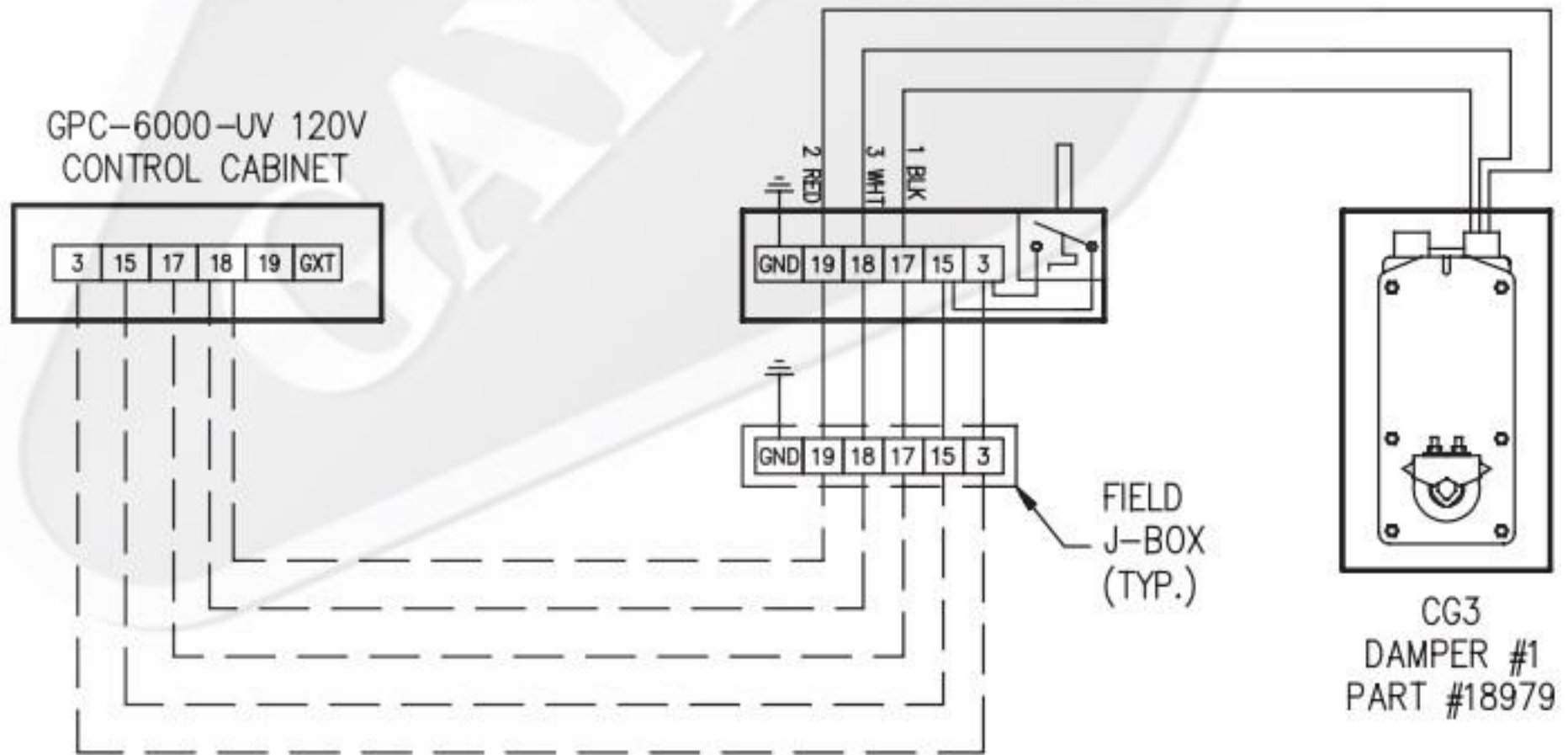
- CONTROL RELAY
- TERMINAL STRIP CONNECTION
- WIRE NUMBER
- PLC CONNECTOR

OUTPUT MODULE  
 ICG102-102

SUPPLY FAN MOTOR (BY OTHERS)  
 MAG. STARTERS (BY OTHERS) SEE NOTE 2  
 EXHAUST FAN MOTOR (BY OTHERS)

SUPPLY FAN ELECTRICAL SERVICE (BY OTHERS)  
 EXHAUST FAN ELECTRICAL SERVICE (BY OTHERS)

## CG3-UV-FDL WIRING NOTES



### CG3-UV-FDL WIRING NOTES w/C-6000-UV

1. ADD FIRE DAMPER LOCKOUT BRACKET, "FDL" BRACKET, TO DAMPER ON VENTILATOR
2. WIRE #'S 18 & 19 FROM ENTILATOR CONNECT TO #18 IN THE GPC-6000-UV CONTROL CABINET.