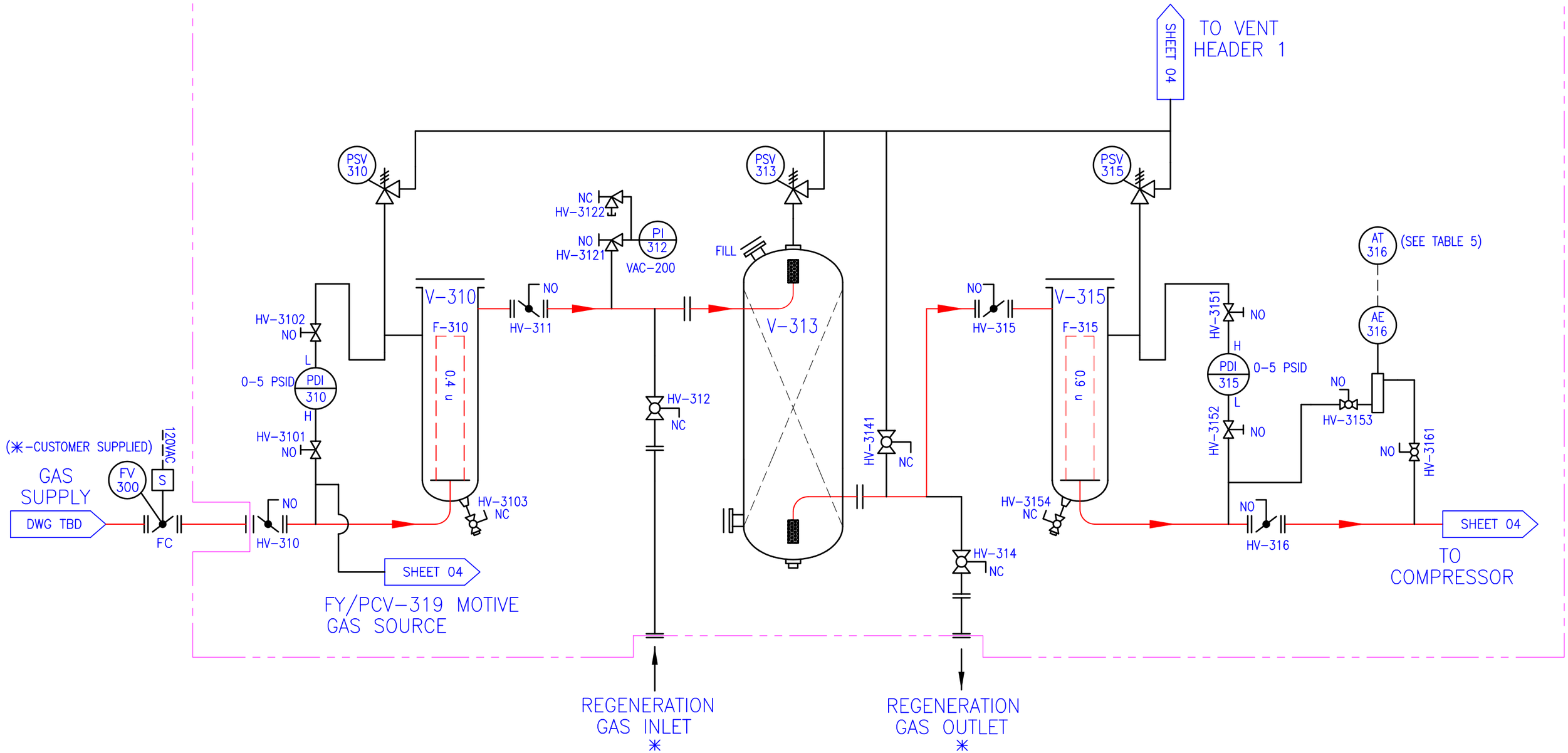
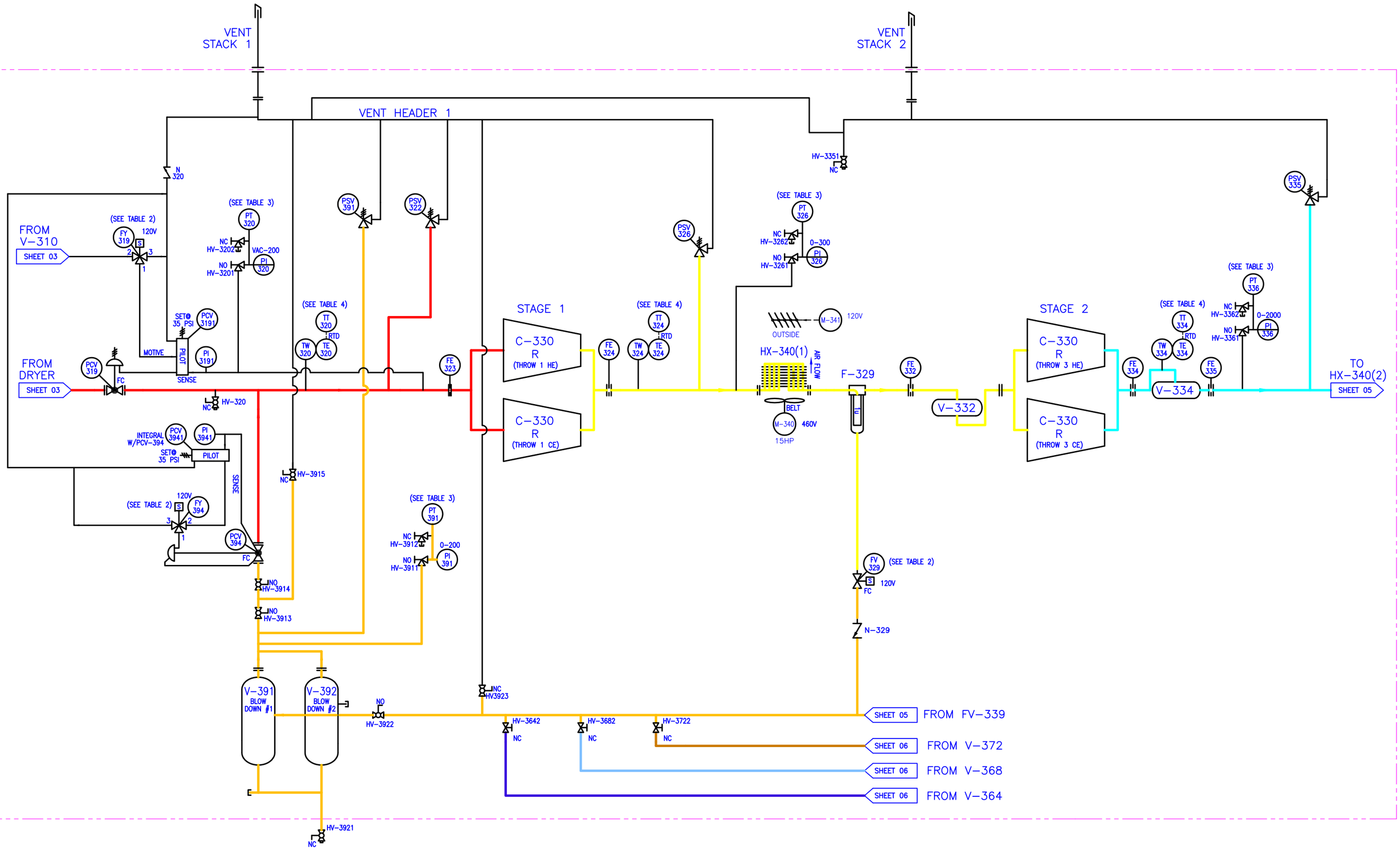
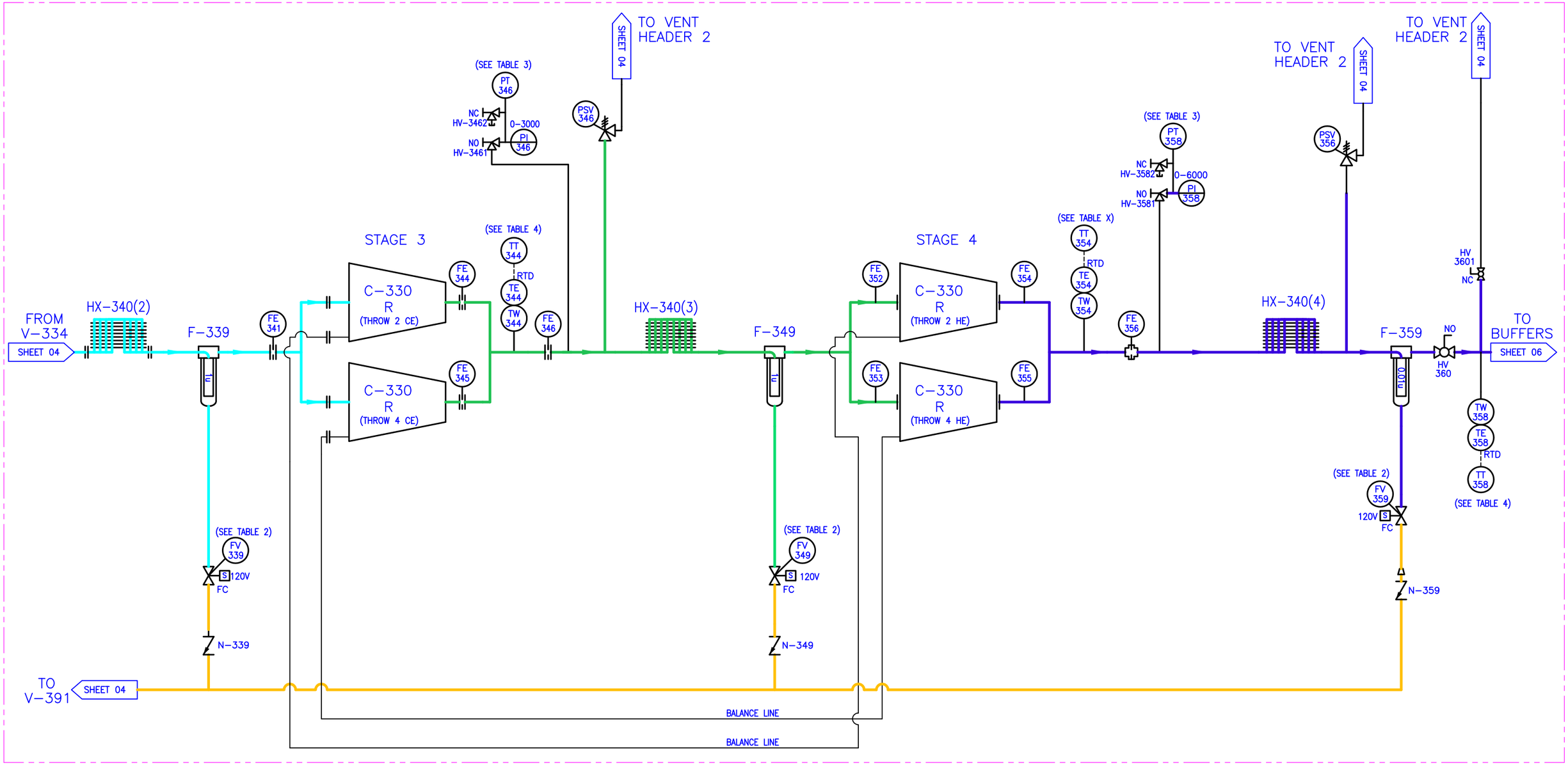
GAS DRYER


SHEET 04
TO VENT HEADER 1
PSV 310
PSV 313
PSV 315
NC HV-3122
NO HV-3121
PI 312
VAC-200
FILL
AT 316
(SEE TABLE 5)
NO
V-310
F-310
0.4 u
HV-311
V-313
V-315
F-315
0.9 u
HV-315
HV-3102 NO
L
0-5 PSID
PDI 310
H
HV-3101 NO
HV-3103 NC
HV-312 NC
HV-3141 NC
HV-3151 NO
H
PDI 315
0-5 PSID
L
HV-3152 NO
HV-3154 NC
AE 316
NO
HV-3153
NO
HV-3161
(✳-CUSTOMER SUPPLIED)
120VAC
GAS SUPPLY
DWG TBD
FV 300
S
FC
NO
HV-310
SHEET 04
FY/PCV-319 MOTIVE GAS SOURCE
HV-314 NC
NO
HV-316
SHEET 04
TO COMPRESSOR
REGENERATION GAS INLET ✳
REGENERATION GAS OUTLET ✳

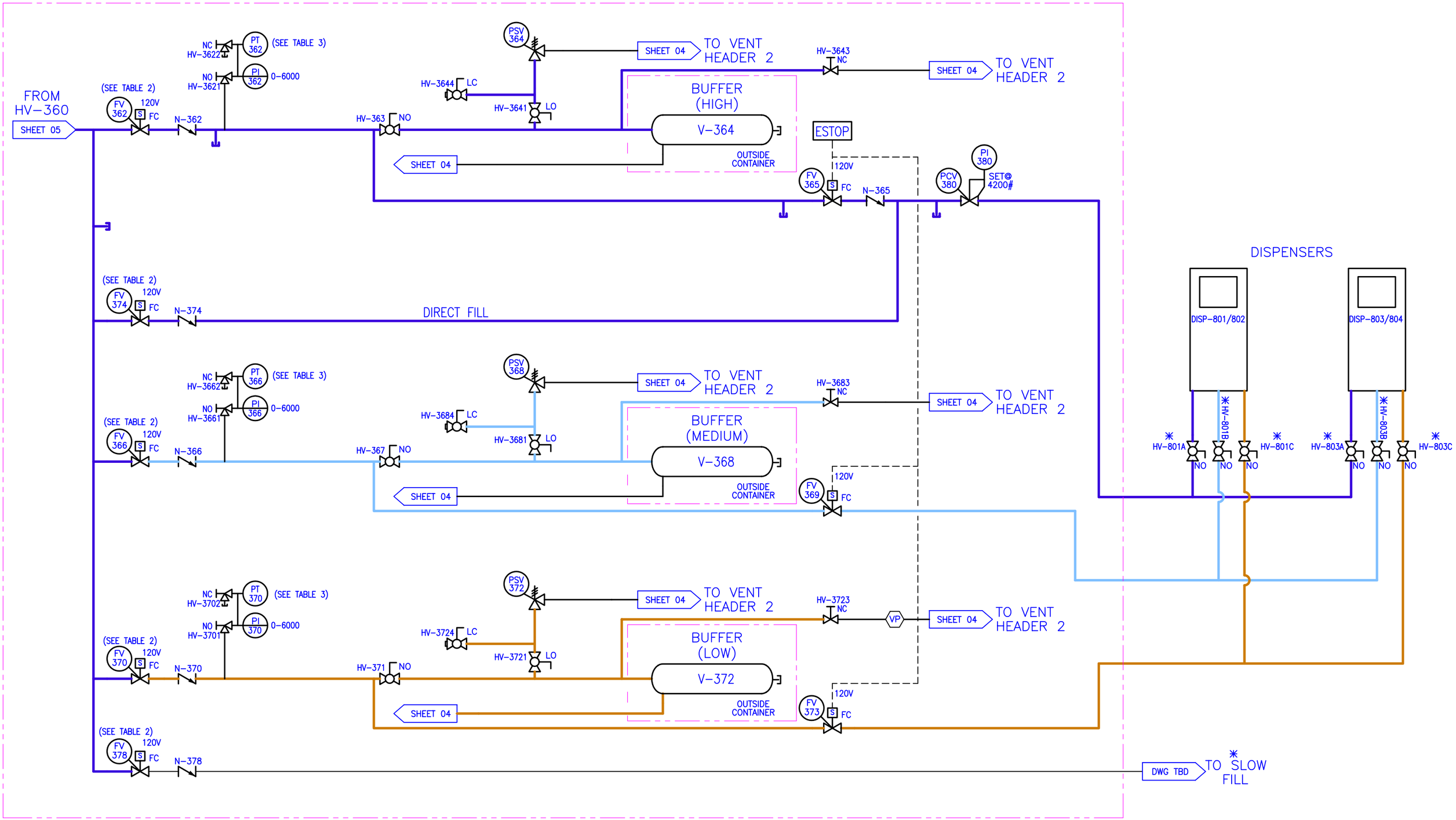
GAS COMPRESSION (STAGES 1 AND 2 WITH BLOWDOWN)



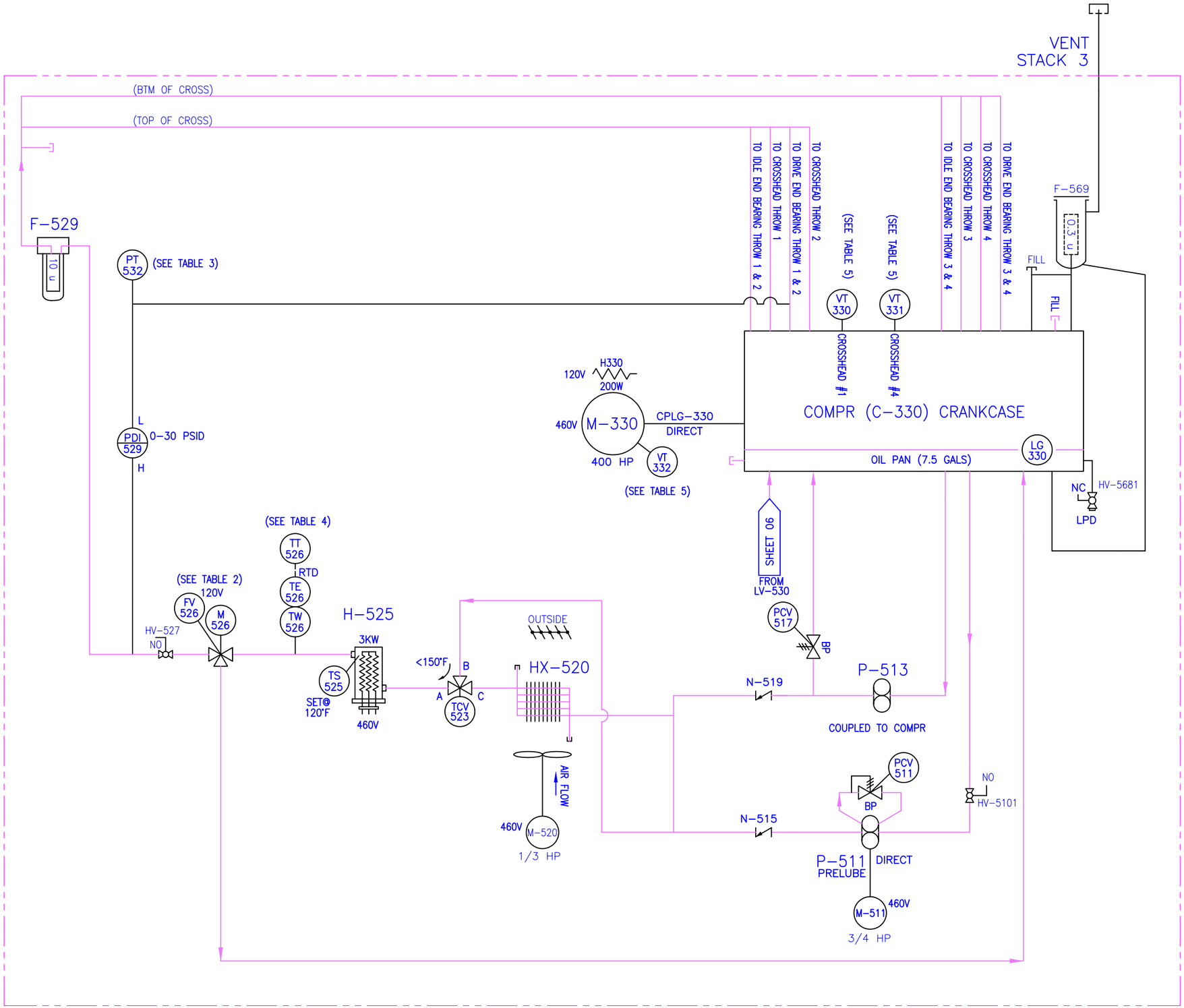
GAS COMPRESSION (STAGES 3 AND 4)



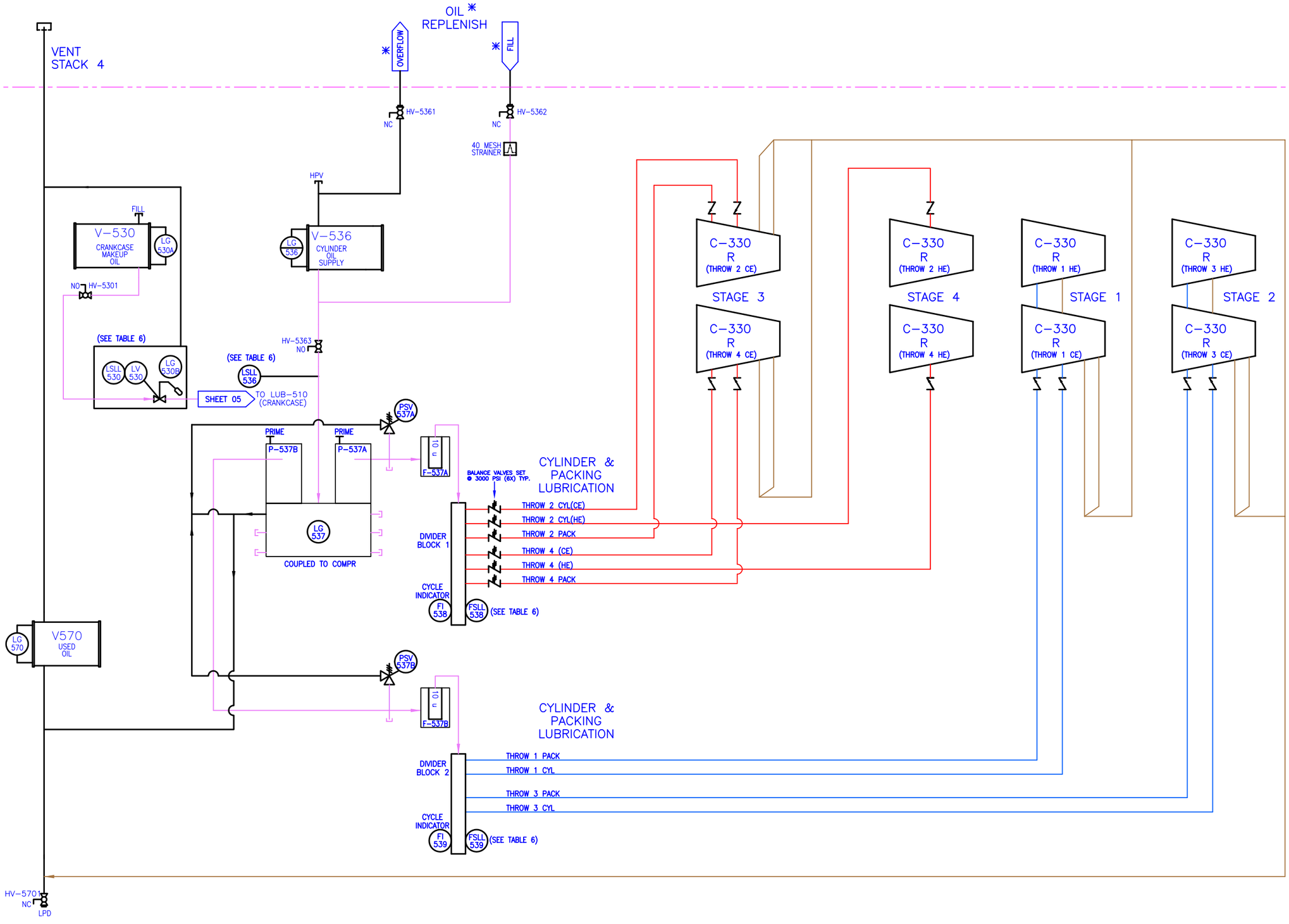
BUFFER TANKS AND DISTRIBUTION



Compressor Crankcase Lubrication



Compressor Cylinder Lubrication



FACILITY SWITCH GEAR

SERVICE
460 VAC
800 AMP
3–PHASE

WYE ONLY

460VAC, 3–PHASE

460VAC, 3–PHASE

CB–910
3–POLE,
800 AMPS

FU–920, 921
6 AMP

TRANSFORMER
T–920
460VAC/120VAC

120VAC
POWER

CB–921
1–POLE
15 AMP

ESO CIRCUIT

CONTROL PANEL
POWER

"H1"

UPS–921

CR–921
NO

"H1SW"

COMPRESSOR
DRIVE MOTOR
CONTROL

RVSS–330
FOR
RELAY

COMPRESSION
ON/OFF
SW–910

CONTROL
PANEL
POWER

FU–914, 916
60 AMP

DRYER
RF GENERATION

(OPTIONAL)

RVSS–330
400 HP
SOFT START

COMPRESSION
DRIVE MOTOR
POWER

FU–911–913
60 AMP

CB–930
2–POLE, 8 AMP

TRANSFORMER
T–930
460VAC/120VAC

120 VAC
POWER

CB–931
1–POLE, 20 AMP

"H2"

CONTROL
PANEL
POWER

DISPENSER
POWER

CB–941
2 POLE, 16 AMP
GFCI

OIL SUPPLY
HEAT
TRACING

FUSE, 4 AMP

COMPRESSOR MOTOR
CONTACTOR MC–330
AUX CONTACTS

COMPRESSION MOTOR
SPACE HEATER
H–330

FUSE, 1/2 AMP

COMPRESSOR MOTOR
CONTACTOR MC–330
RUN AUX CONTACTS

PRELUBE PUMP
CONTACTOR MC–511
RUN AUX CONTACTS

FUSE 1–1/2 AMP

OIL HEATER
THERMOSTAT TS–525

REMOTE PANEL
COOLING FAN

CB–525
3 POLE, 6 AMP

OIL HEATER
POWER
H–525

CB–511
3 POLE, 6 AMP

OIL PUMP
POWER
M–511

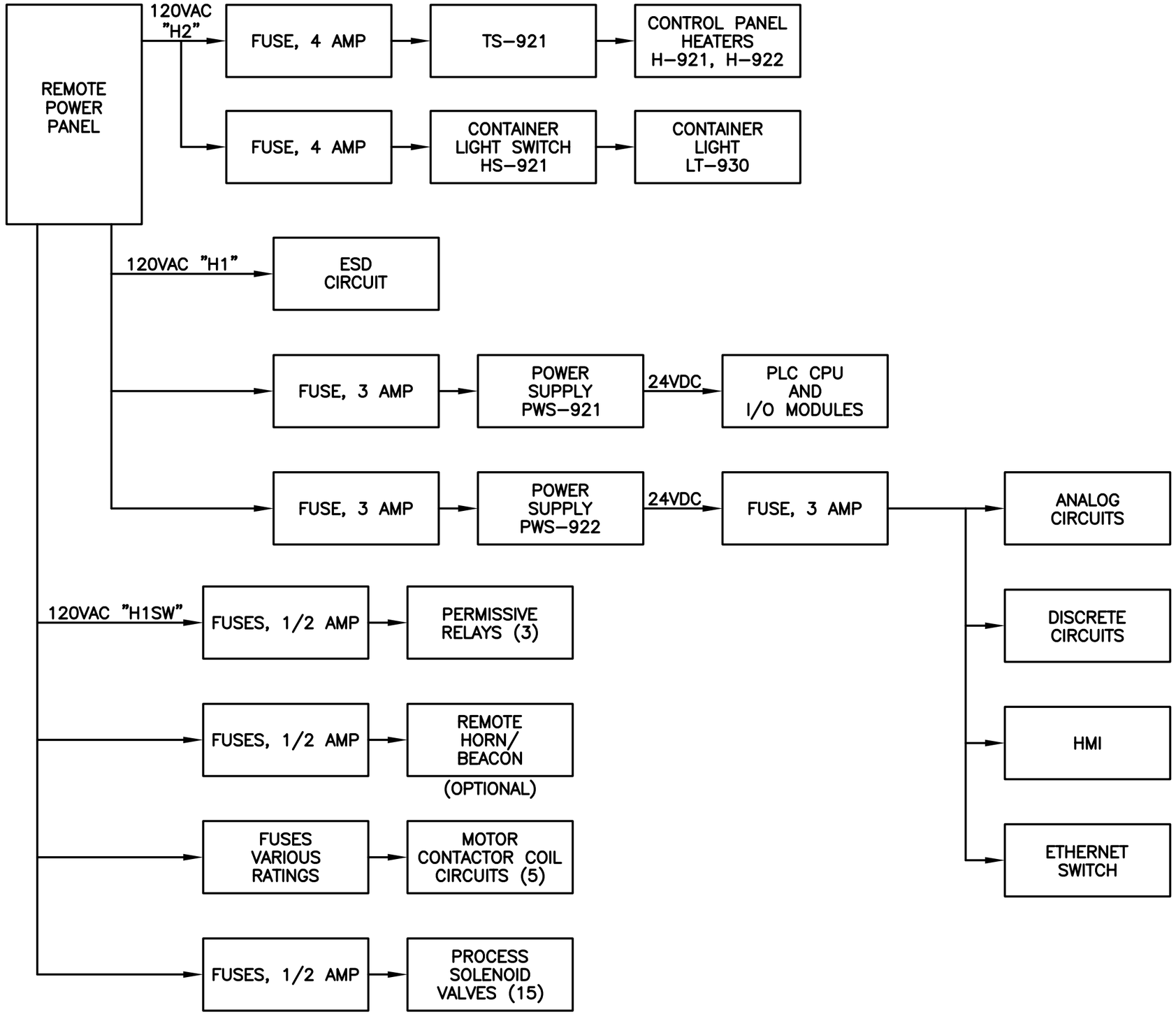
CB–520
3 POLE, 2 AMP

OIL COOLER
POWER
M–520

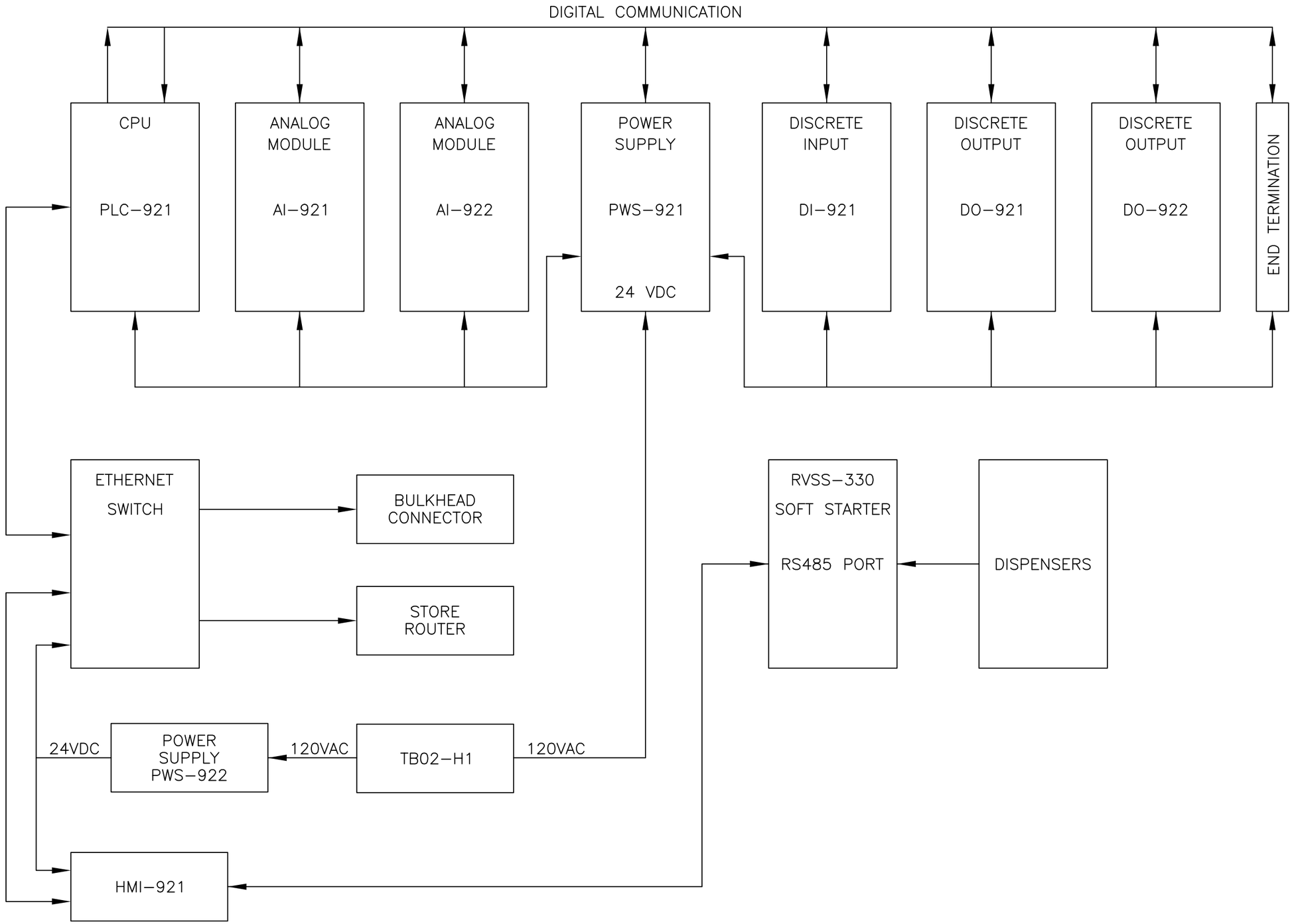
CB–340
3 POLE, 30 AMP

GAS COOLER
FAN POWER
M–340

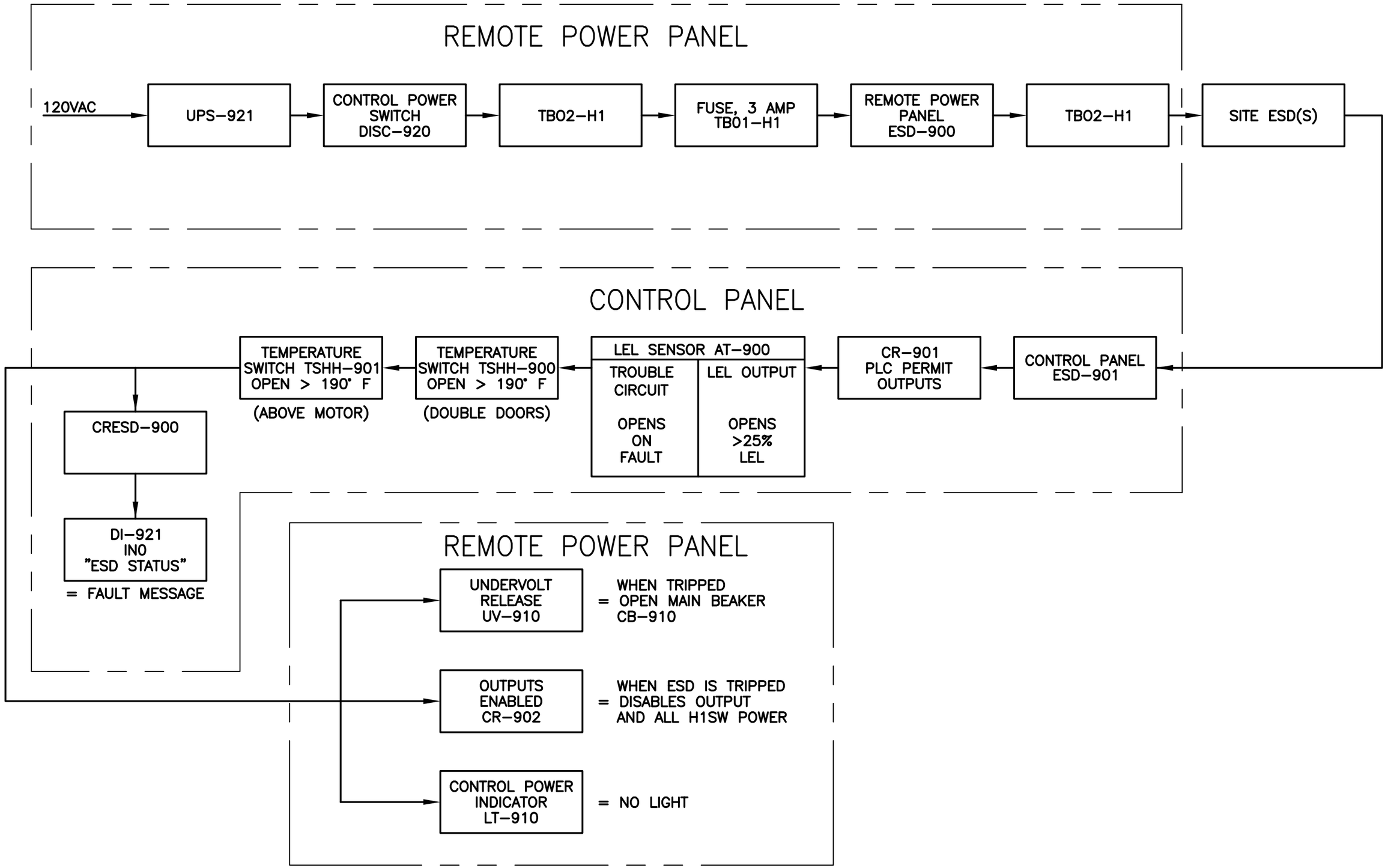
REMOTE PANEL POWER DISTRIBUTION AND CIRCUIT PROTECTION



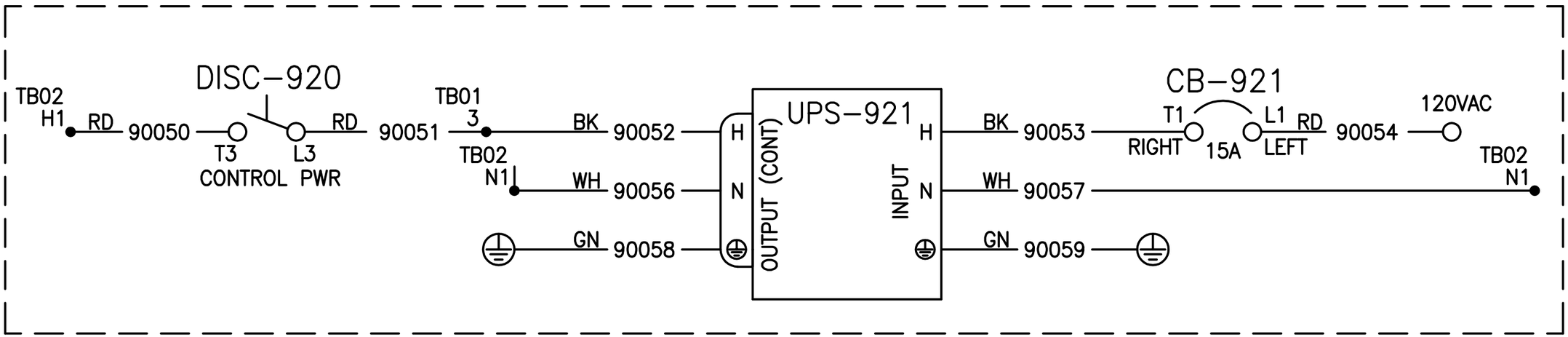
CONTROL PANEL POWER DISTRIBUTION AND CIRCUIT PROTECTION



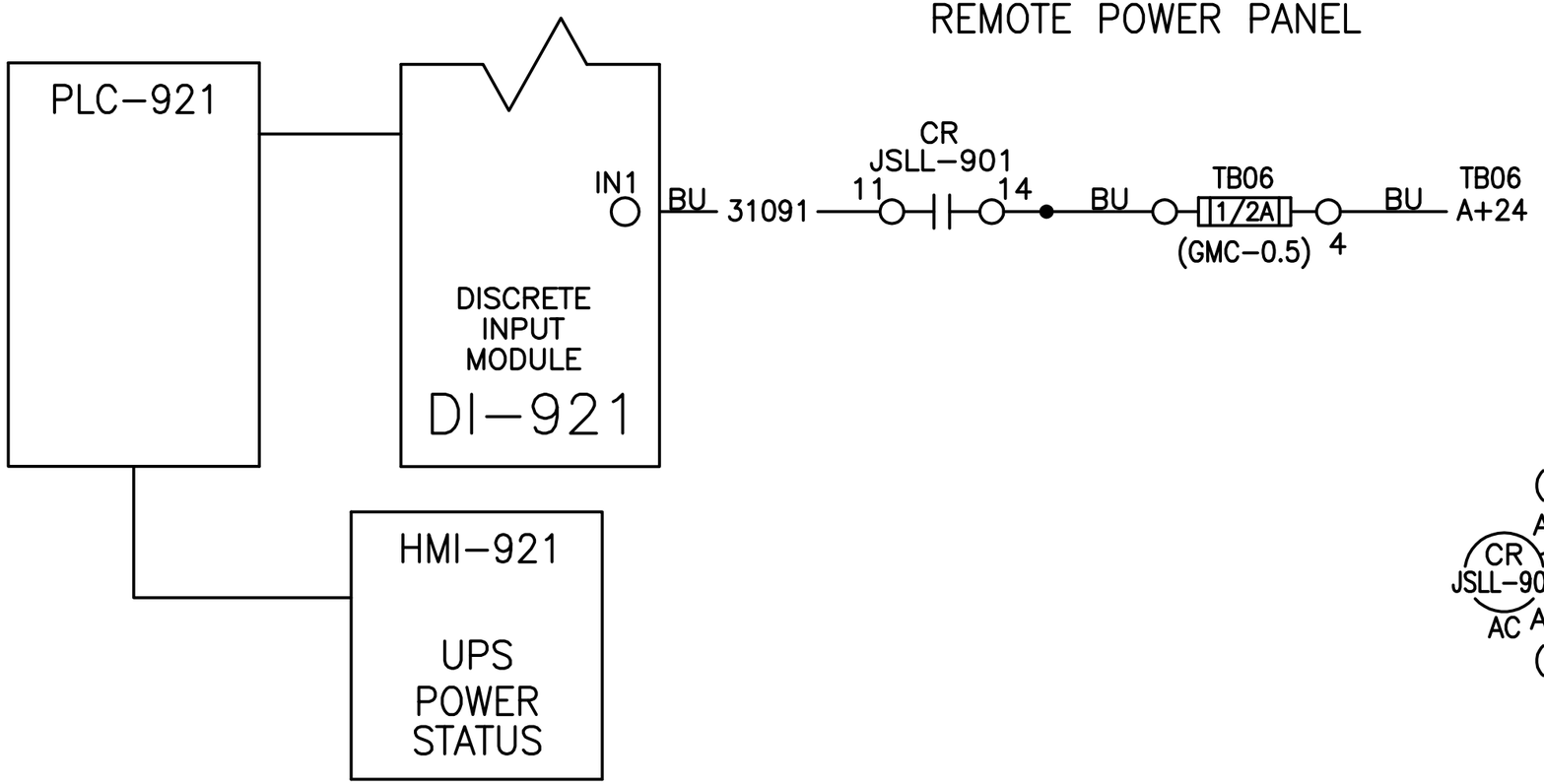
PLC AND HMI OPERATION AND COMMUNICATION

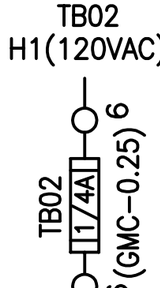


EMERGENCY SWITCHING DEVICE (ESD) CIRCUIT OPERATION



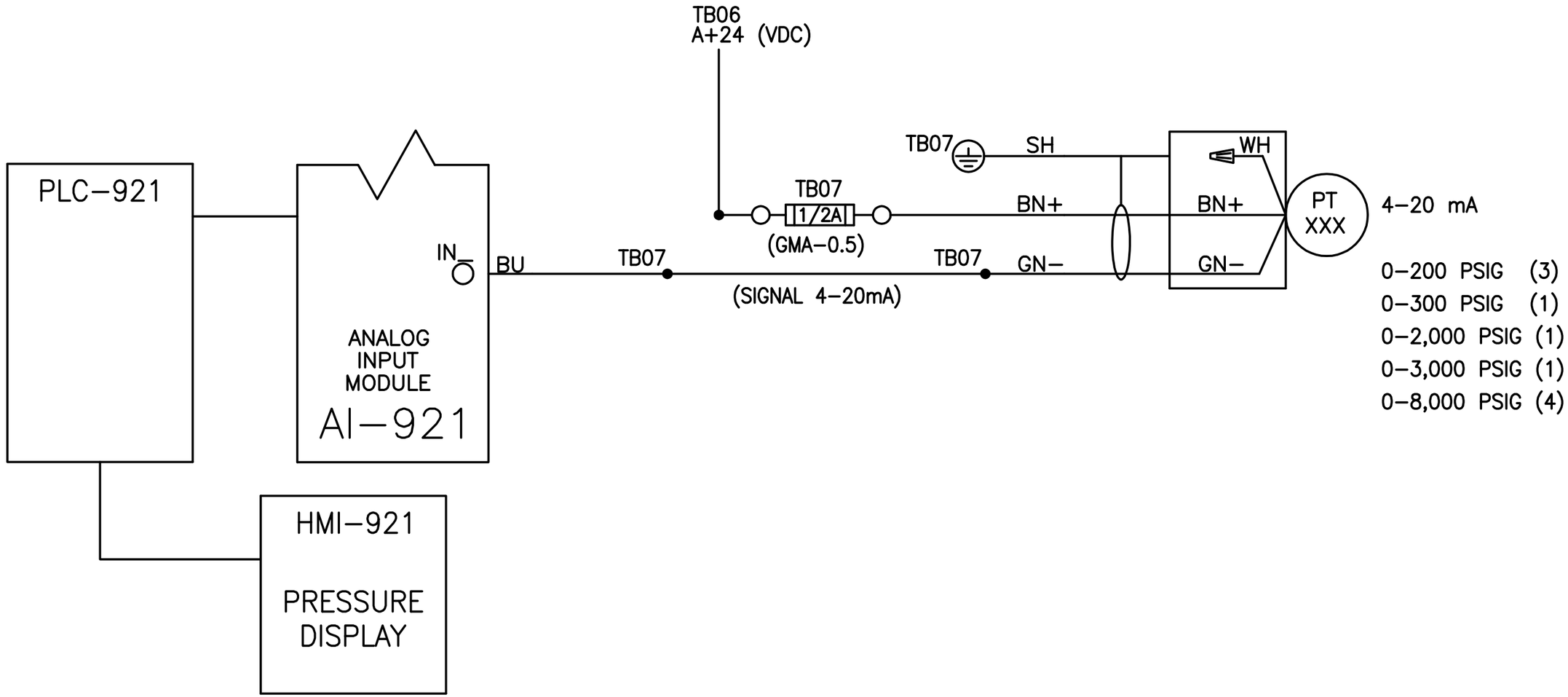
REMOTE POWER PANEL



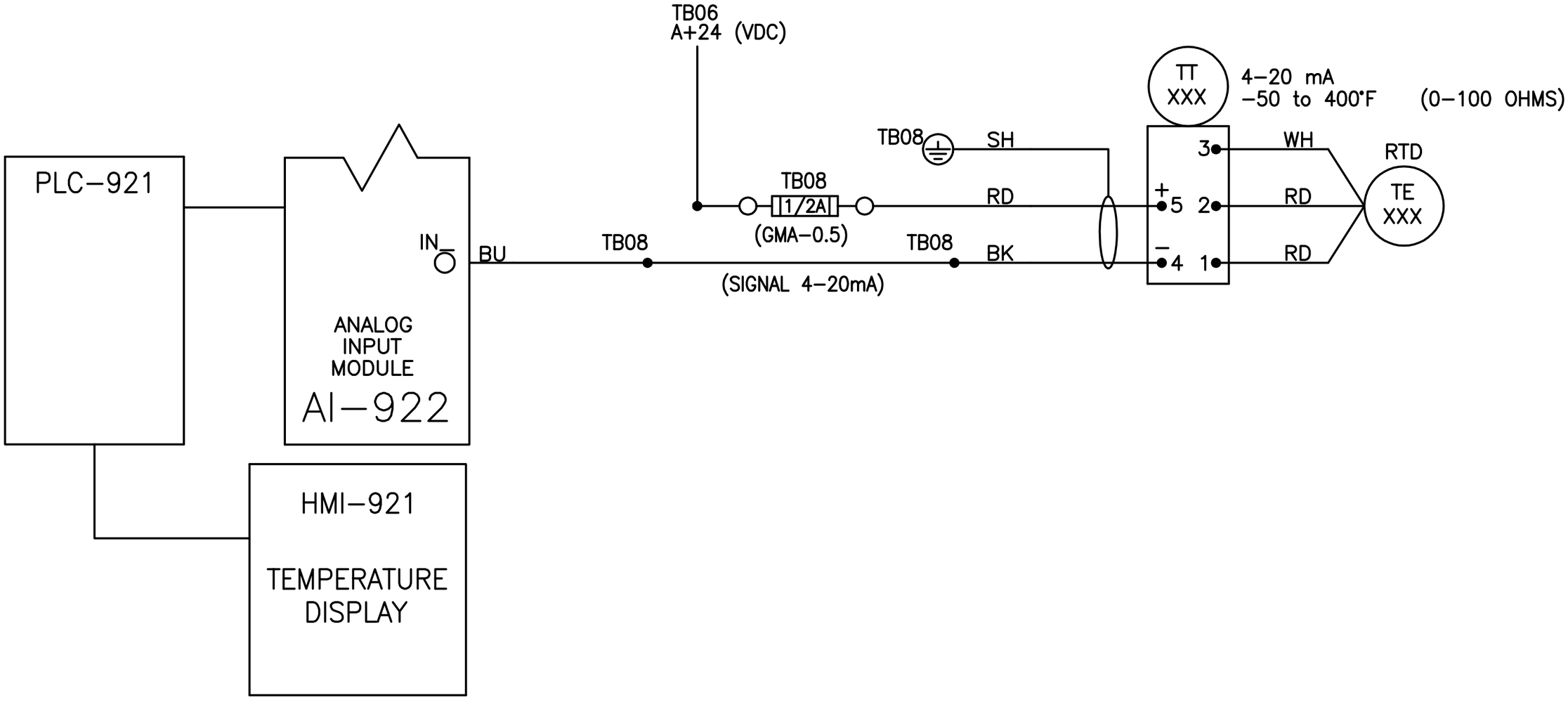


OPEN = POWER OUTAGE (UPS BATTERY POWER IN USE)
CLOSED = POWER AVAILABLE (UPS IN STANDBY)

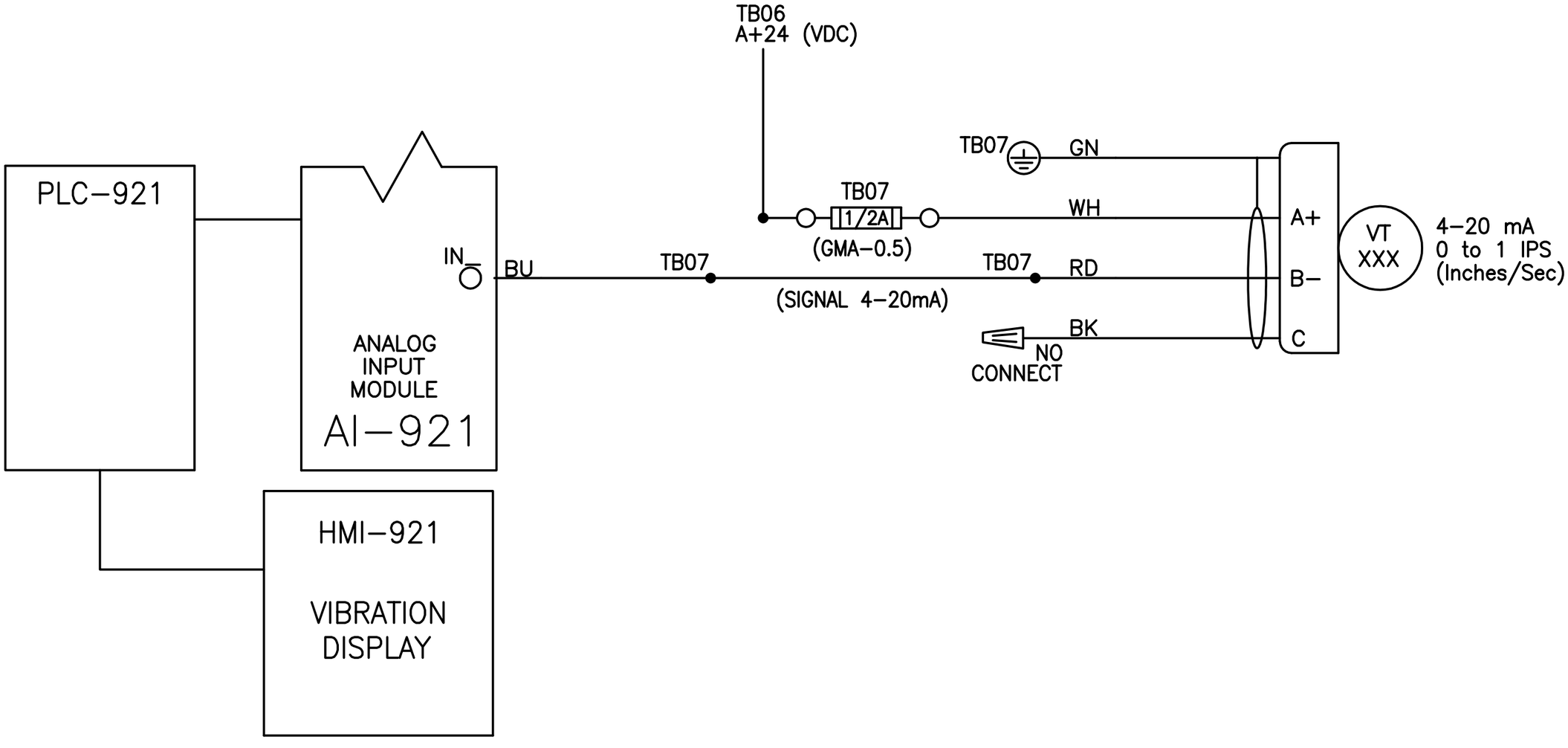
UPS POWER DISTRIBUTION AND STATUS OPERATION



TYPICAL PRESSURE TRANSMITTER OPERATION



TYPICAL TEMPERATURE TRANSMITTER OPERATION



TYPICAL VIBRATION TRANSMITTER OPERATION

LEL SENSOR OPERATION

CONTROL PANEL DOOR

ESD-901

FROM ESD-900

1

2

RD

31037

CR-901

11

14

RD

11197

ALRM3 >25% LEL=OPEN

J4 C

J4 NCD

RD 11198

TROUBLE FAULT =OPEN

J5 C

J5 NCE

RD

11021

> 190°F = OPEN

TSHH-900

TO TSHH-901

AT-900

TB06 ACOM

TB06 A+24

31044

BU

TB07

1/2A

(GMA-0.5)

36

TB07

SH

11036

RD

11037

BK

11038

J8 1

VDC

J8 3

-GND

POWER, 24VDC, LEL (AT900) 290 mA

J1 G

BU

11054

GND

J1 R

BU

11055

RX

J1 T

BU

11056

TX

J1 5

BU

11057

5V

ANALYZER, LEL, COMPRESSOR CONTAINER

AE 900

LEL REMOTE SENSOR

AI-921

ANALOG INPUT MODULE

IN15

BU

31045

TB07 16

TB07 56

TB09

SH

11039

RD

11040

BK

11041

J8 2

OUT

4-20 mA 0-100% LEL SELF-PWRD

NO CONNECT

PLC-921

DI-921

DISCRETE INPUT MODULE

A+24

4

TB06

1/2A

24 (GMC-0.5)

BU

TB09

SH

11150

TB09 2

RD

11151

TB09 1

BK

11152

ALRM1> 10% LEL

ASH 900

J2 NCD

J2 C

CLOSE=OK OPEN>10% LEL

IN8

BU

31084

HMI-921

LEL ALARM DISPLAY

LEL DISPLAY

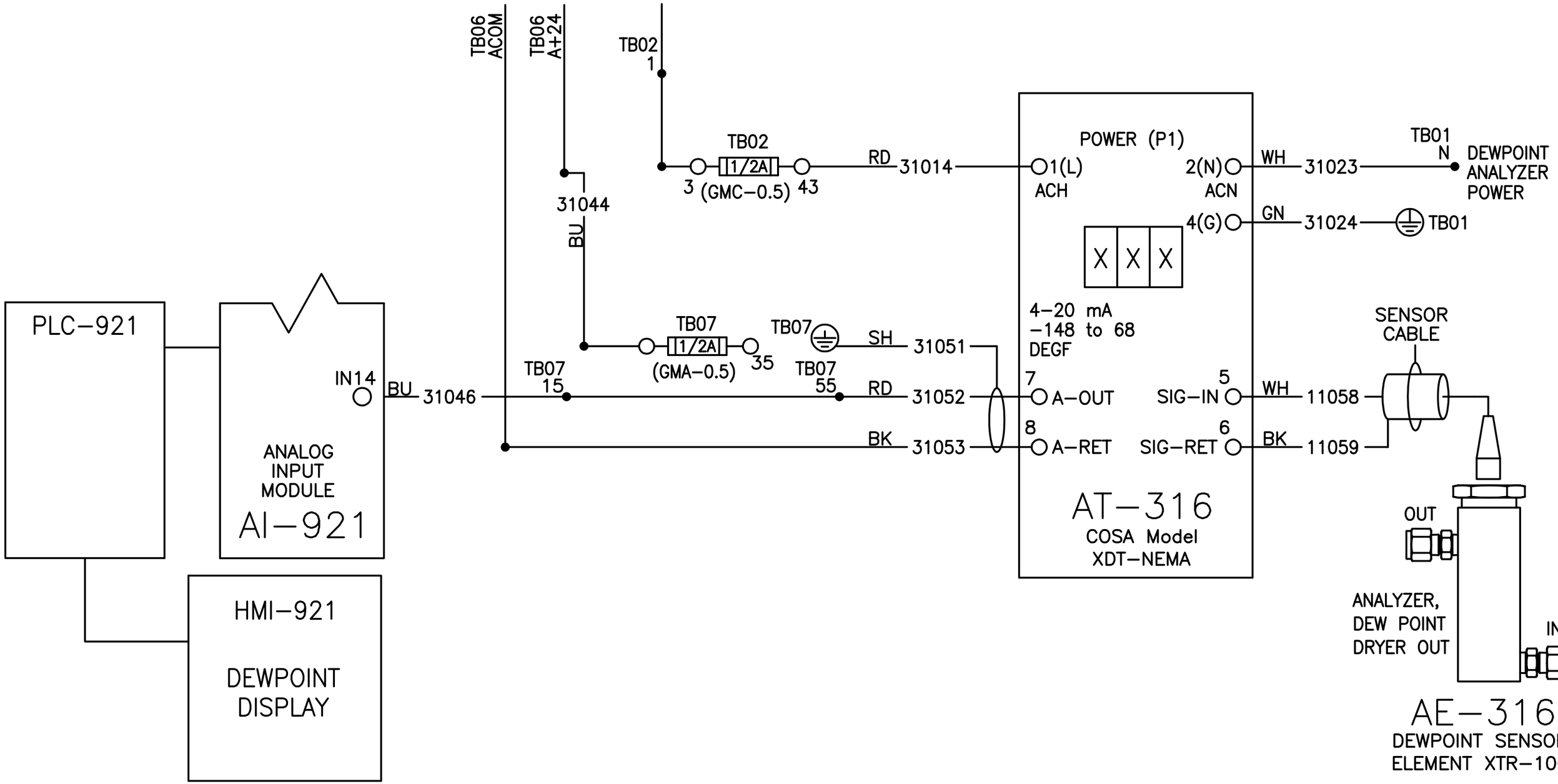
J10 ACK

WH

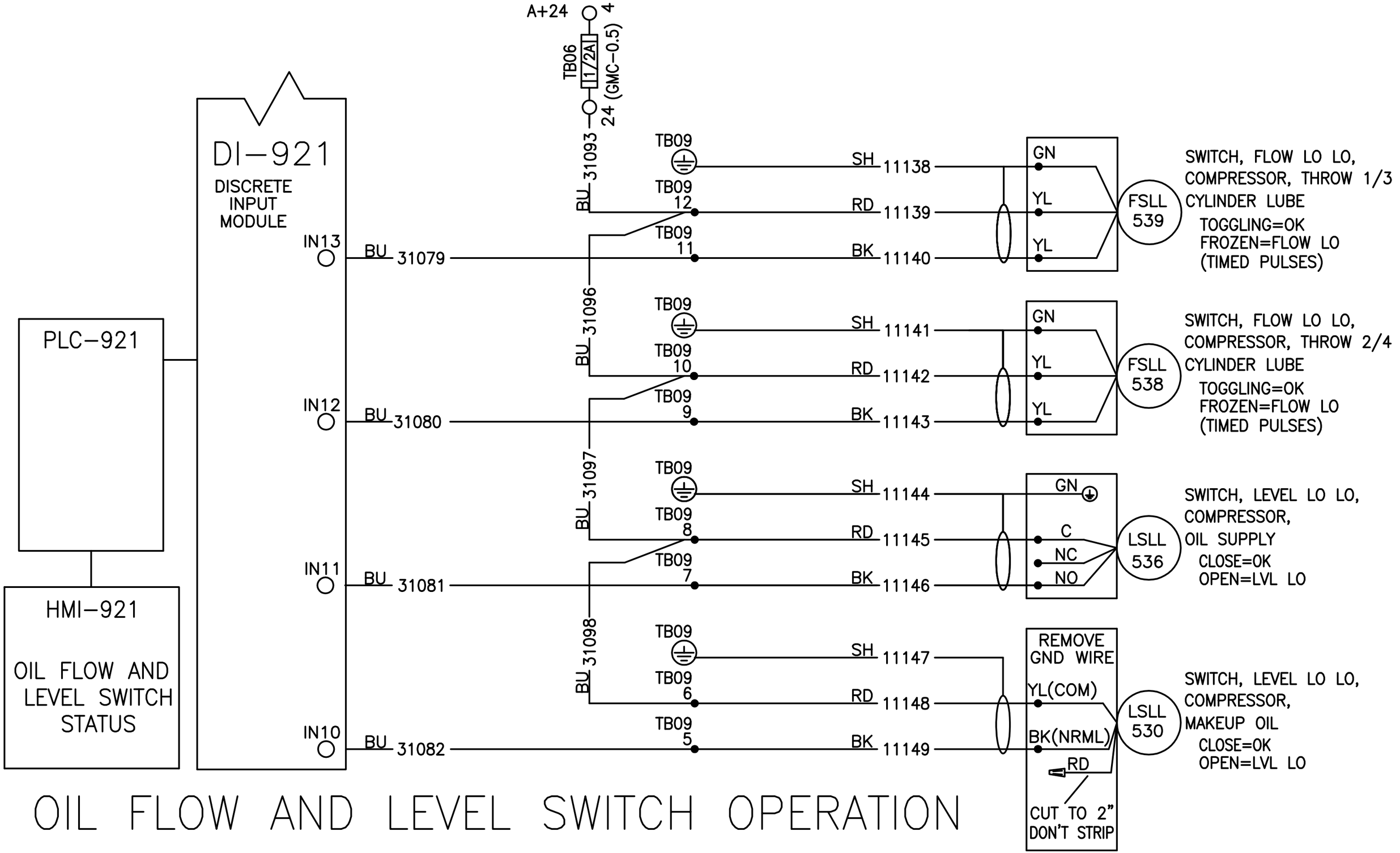
WH

LEL RESET BUTTON

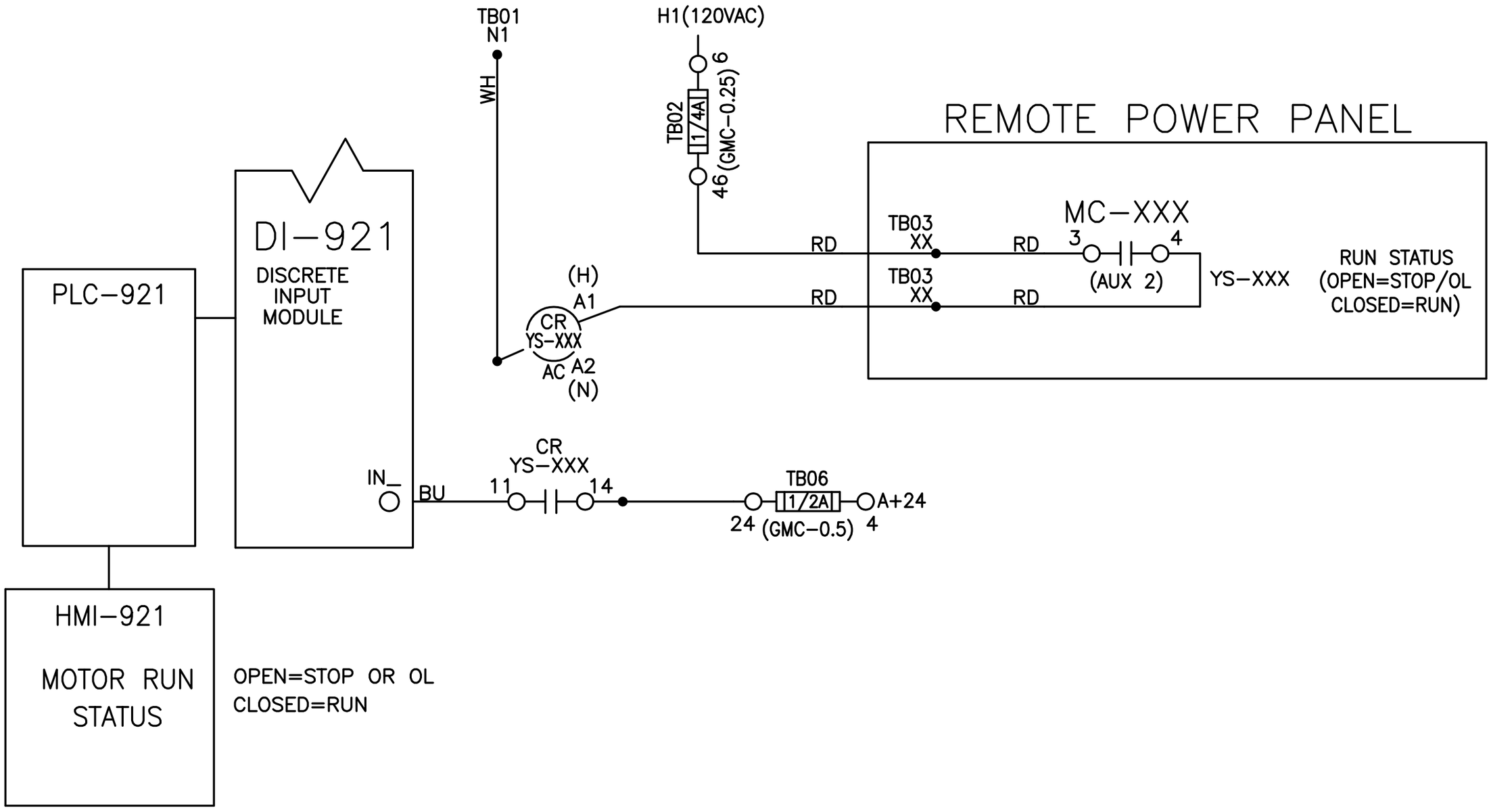
PB 900



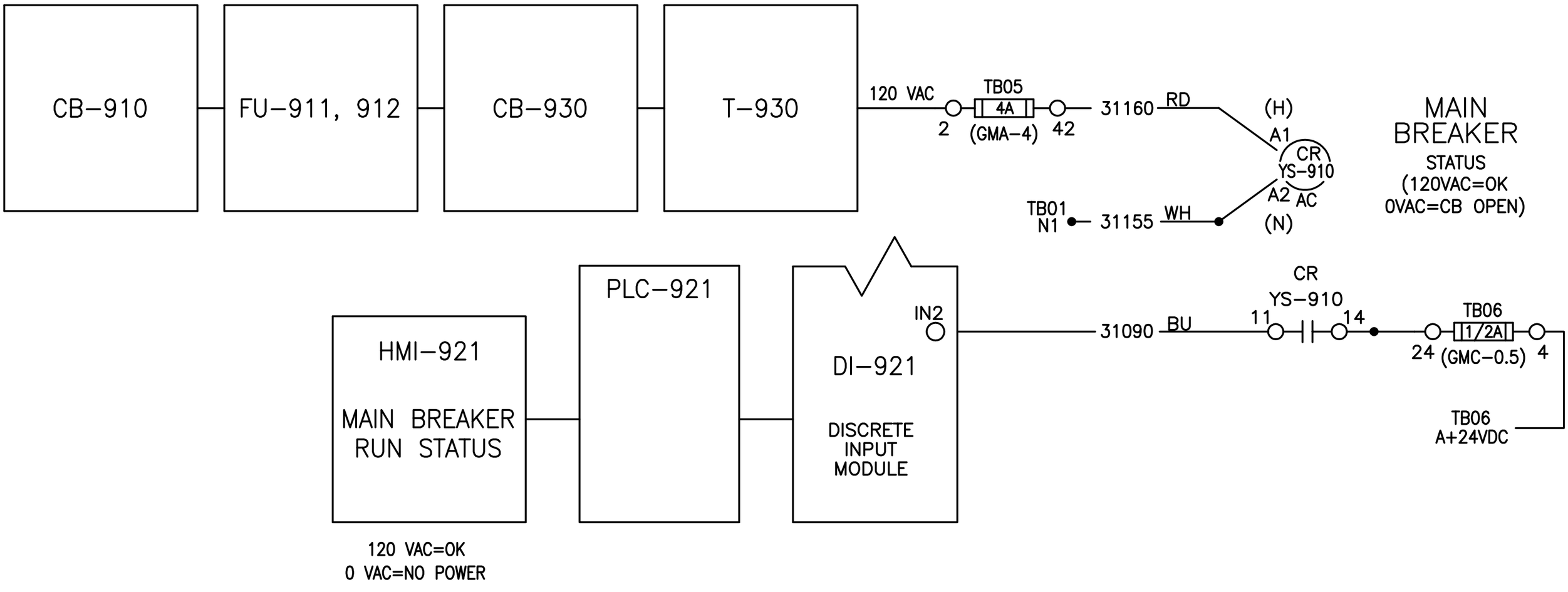
DEWPOINT SENSOR OPERATION



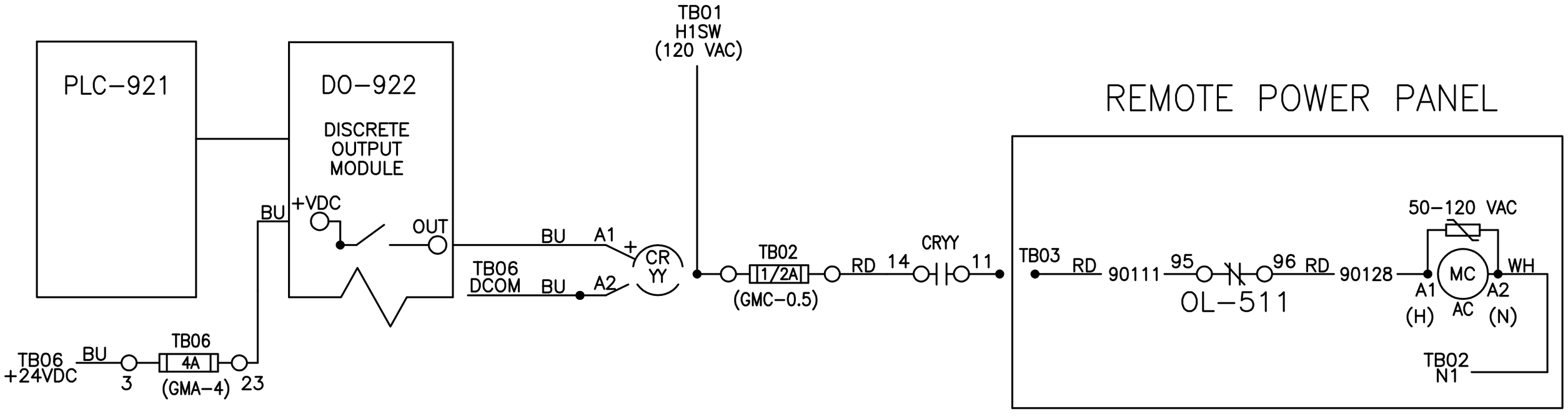
OIL FLOW AND LEVEL SWITCH OPERATION

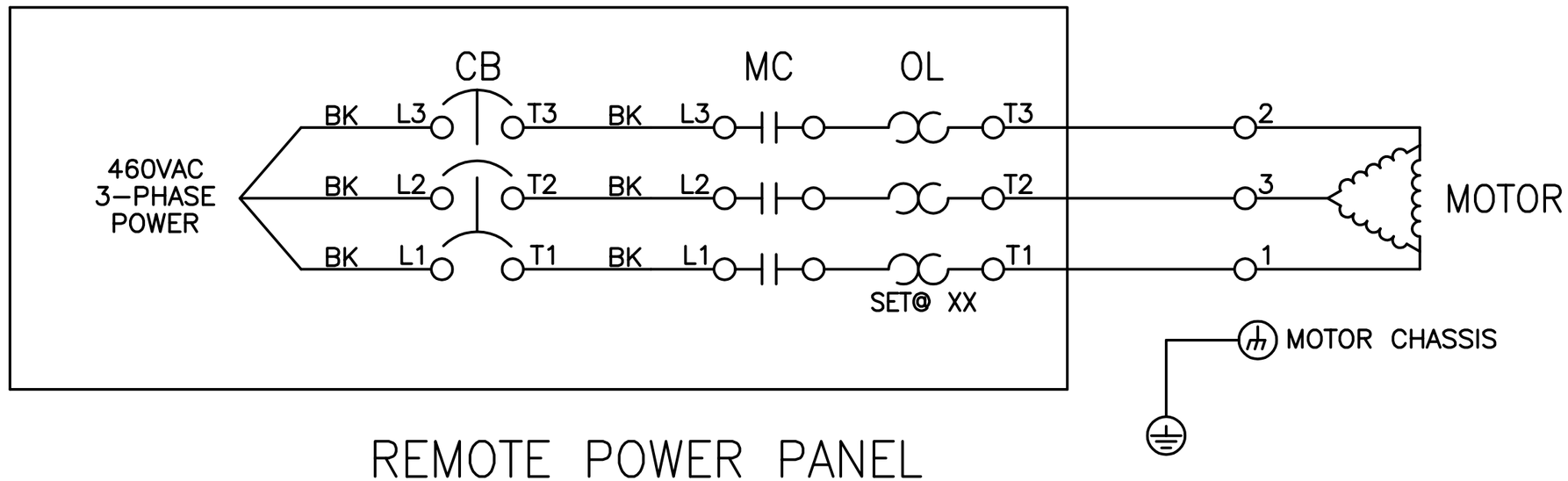


TYPICAL MOTOR RUN STATUS OPERATION



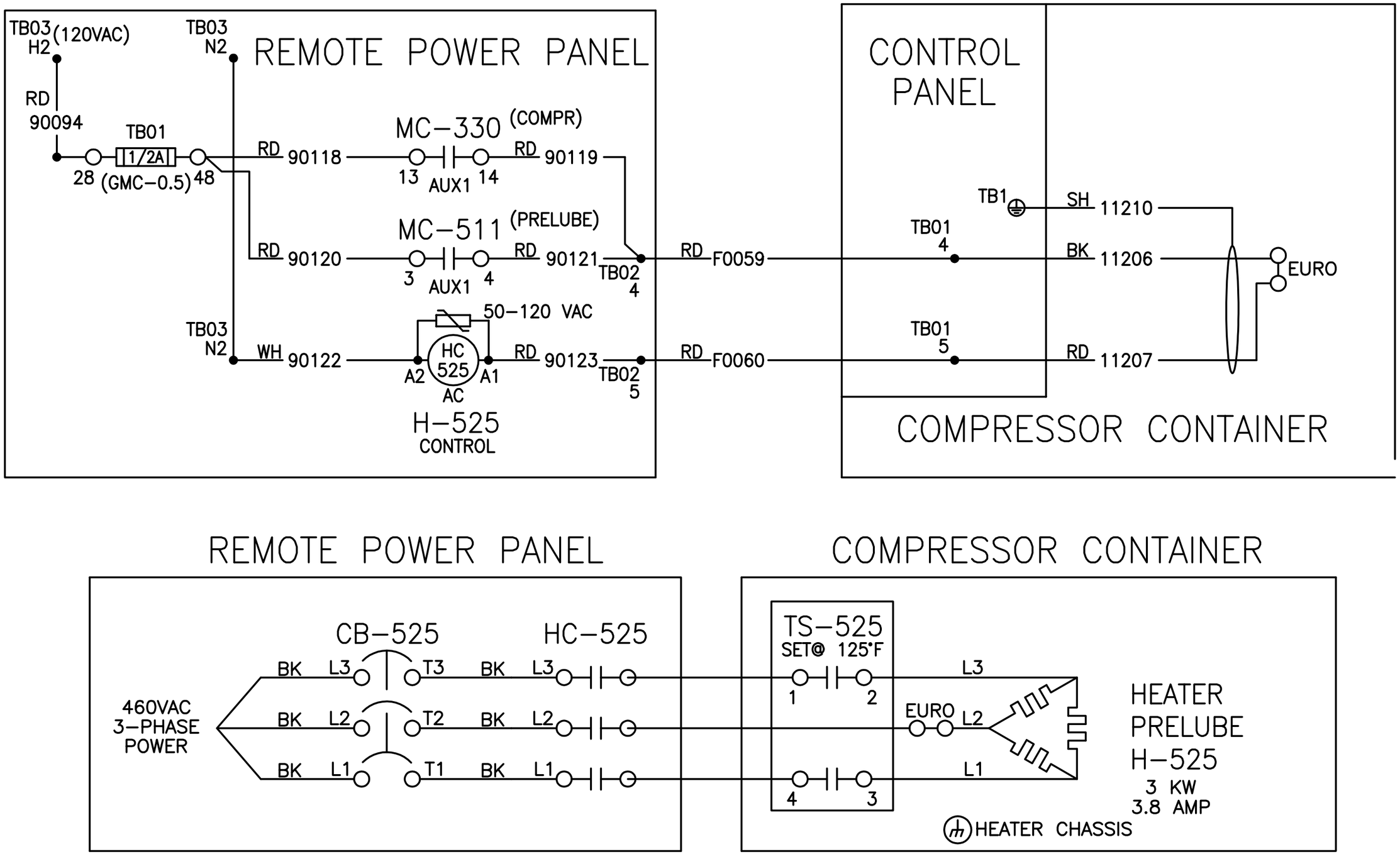
MAIN BREAKER STATUS OPERATION



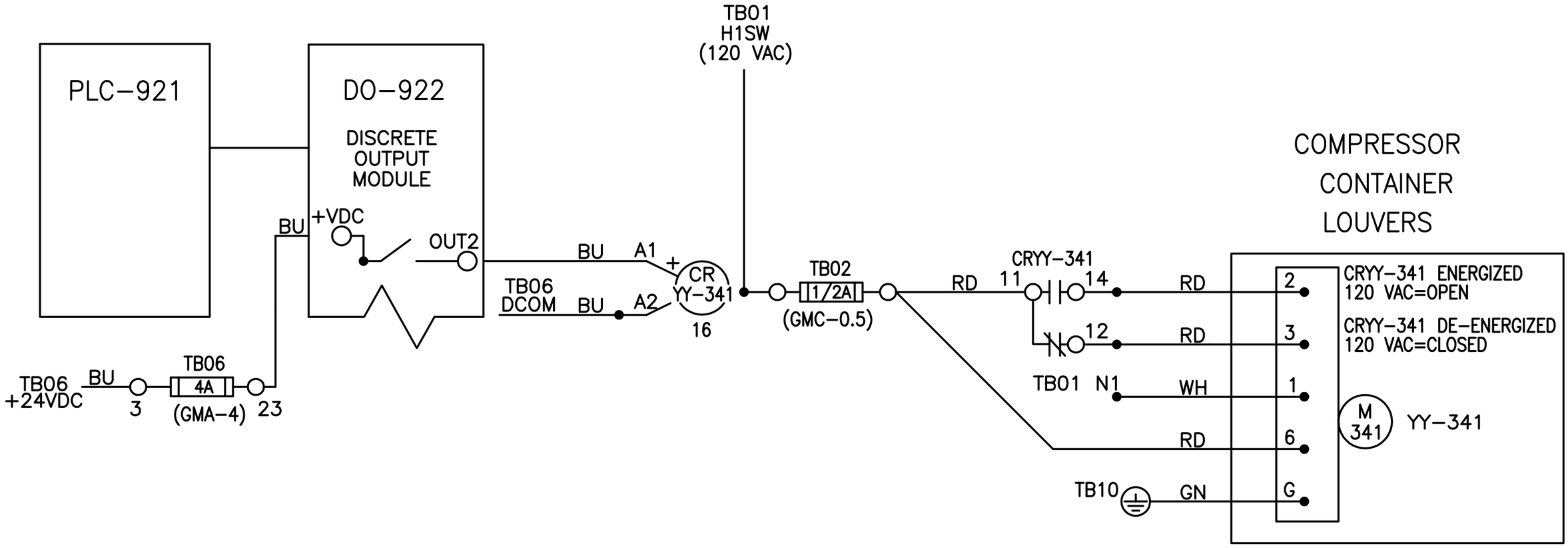


REMOTE POWER PANEL

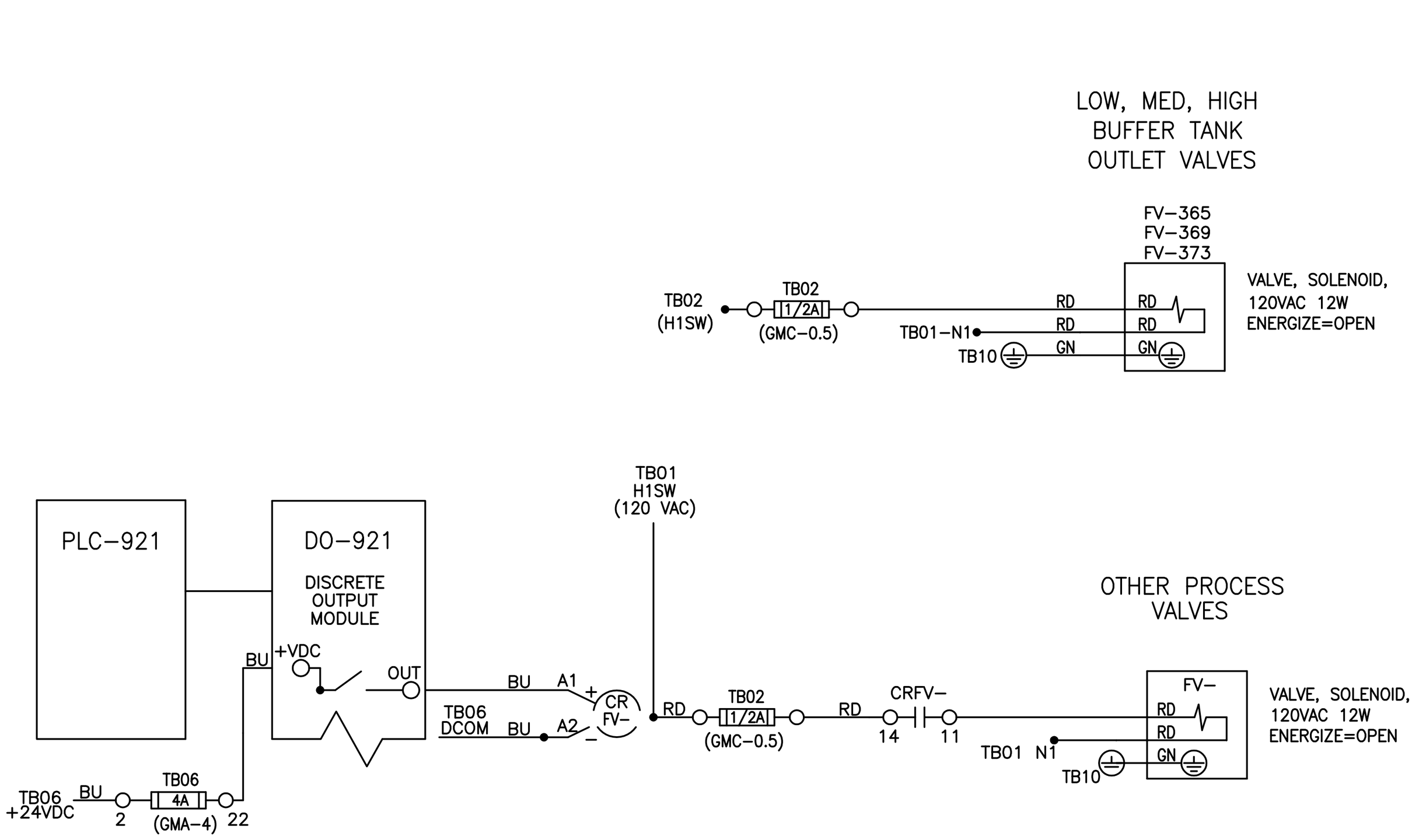
TYPICAL MOTOR CONTROL CIRCUIT



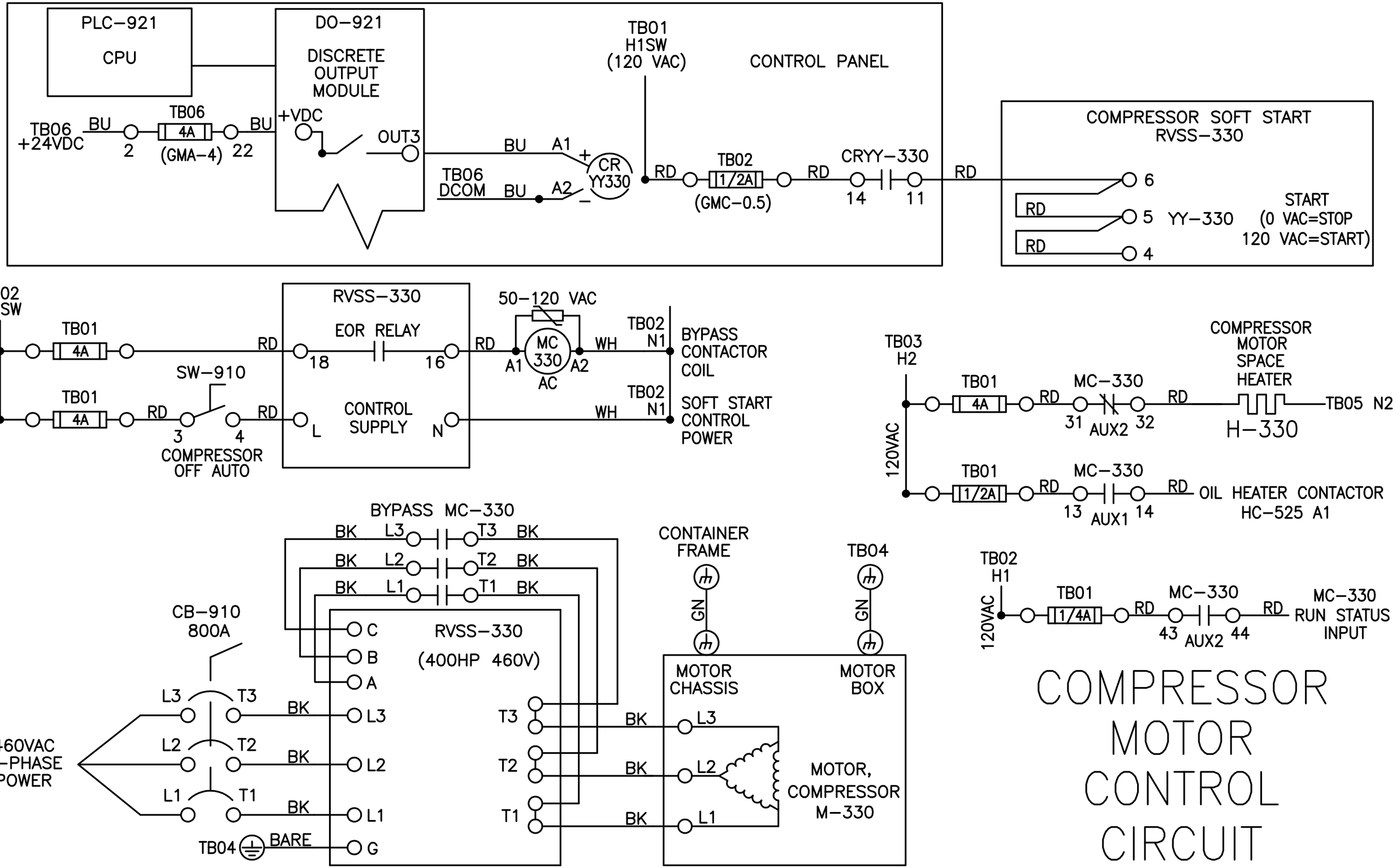
OIL HEATER CONTROL CIRCUIT



EXHAUST LOUVER MOTOR CONTROL CIRCUIT



TYPICAL SOLENOID VALVE CONTROL CIRCUITS



COMPRESSOR MOTOR CONTROL CIRCUIT

NOTES: UNLESS OTHERWISE SPECIFIED

1. SHEET(s) | PANEL(s) | WIRE NUMBERS USED
   - 6, 7, 9, 12, 13 | FIELD CONNECTS | F0001–F0034, F0050–F0116
   - 6, 7, 12, 13 | REMOTE POWER PANEL | 90001–90137
   - 6, 7, 9–14 | COMPRESSOR CONTAINER | 11001–11113, 11138–11210
   - 7, 9–14 | CONTROL PANEL | 31001–31076, 31079–31093, 31096–31160
2. DIAMONDS WITH NUMBERS (i.e. ◇ LV 16 ◇) INDICATE FIELD CONNECTIONS BY OTHERS. SEE DRAWING "MG109–00902 REV latest LIST FIELD ELECT date.xls" FOR DETAILS.
   - LV = LOW VOLTAGE 460V
   - CP = CONTROL POWER 120V
   - IN = INSTRUMENTATION 24V
   - CM = COMMUNICATIONS
   - GN = GROUND
3. ✳ INDICATES EQUIPMENT SUPPLIED BY OTHERS.
4. ORIENT ALL VERTICAL WIRE LABELS TO BE READABLE WITH HEAD TURNED TO THE LEFT.
5. WIRING INTERNAL TO THE PANEL TO BE LANDED ON TOP SCREW. FIELD WIRING TO BE LANDED ON BOTTOM SCREW.
6. △6 AFTER SITE ELECTRICAL CHECKED AND APPROVED BY GUILD, THESE INSTRUMENTS REQUIRE CONDUIT SEALS PACKED AND POURED BY OTHERS.
7. △7 ROUTE COMMUNICATION CABLES ON SOFT STARTER FRONT AS SHOWN & SECURE WITH CABLE TIES. CONTINUE IN WIRE DUCT TOWARDS FRONT/LEFT OF ENCLOSURE.
8. △8 FIELD & SKID WIRING GROUND CONNECTION TO BE WIRED TO CONDUIT GROUND BUSHING THEN ON TO GROUND TERMINAL.
9. CROSS PAGE CONECTION NUMBERS USED. 1–12.
10. △10 SET OVERLOAD OL–520 TO EITHER 0.5 OR 0.7 BASED ON MOTOR M–520 NAMEPLATE.

SEQUENCE OF OPERATION:

A. VERIFY EMERGENCY SHUTDOWN (ESD) BUTTONS ARE OUT.
B. TURN ON REMOTE POWER PANEL CONTROL POWER SWITCH.
C. PLC AND LEL POWER UP AND IF NO GAS OR FAULTS ARE DETECTED, THE PLC WILL ENERGIZE RELAY CR–901(IN CONTROL PANEL) TO ALLOW TURNING ON THE MAIN BREAKER BY ENERGIZING THE UNDER VOLTAGE LATCH.
D. THE ESD(s), CR–901, LEL, AND FIRE TEMP SWITCH(s) CIRCUIT ALSO TURNS ON THE CONTROL POWER INDICATOR TO LET THE OPERATOR KNOW THE MAIN BREAKER CAN BE TURNED ON.
E. THIS SAME CIRCUIT ALSO ENERGIZES CR–902 (IN REMOTE POWER PANEL). CR–902 CONTACTS CLOSE TO SUPPLY 120 VAC POWER (H1SW) TO OUTPUTS.
F. H1SW ENERGIZES RELAY CR–921 (ACTUALLY 2 RELAYS IN CONTROL PANEL) WHOSE CONTACTS CLOSE TO SUPPLY 24 VDC POWER (D+24 & DCOM) TO OUTPUTS.
G. OPERATOR TURNS ON THE MAIN BREAKER.
H. OPERATOR STARTS THE PLANT VIA HMI INTERFACE ON TOUCH SCREEN FOLLOWING DIRECTIONS IN THE MANUAL.

INDEX

WIRE COLORS

(UNLESS PROHIBITED BY MFR CABLE COLORS)

CIRCUIT DESCRIPTION	COLOR
LOW VOLTAGE 480VAC	BLACK (BK)
CONTROL VOLTAGE 120VAC (HOT)	RED (RD)
NEUTRAL (NEUTRAL)	WHITE (WH)
GROUND (PE)	GREEN (GN)
INSTRUMENT VOLTAGE 24VDC	BLUE (BU)

0	07–09–12	TLP	MKG
INITIAL RELEASE			
A	08–21–12	TLP	MKG
SHTs 2–14 REFER TO RESPECTIVE SHTs REV BLOCK WIRE NUMBERS USED NOW: FIELD CONNECTS F0001–F0034, F0050–F0113 REMOTE POWER PANEL 90001–90127. COMPRESSOR CONTAINER 11001–11113,11138–11210. CONTROL PANEL 31001–31076,31079–31093, 31096–31158.			
B	09–05–12	TLP	MKG
SHTs 2–14 REFER TO RESPECTIVE SHTs REV BLOCK WIRE NUMBERS USED NOW: REMOTE POWER PANEL 90001–90134 COMPRESSOR CONTAINER 11001–11115, 11138–11210 UPDATE SEQ OF OPERATION STEPS C & D.			
C	09–20–12	MKG	MKG
SHTs 3,4,6,7,9,12,13 REFER TO RESP SHTs REV BLOK.. WIRE #s USED 11115 NOW 11113, F0113 NOW F0116, 31158 NOW 31160, & 90134 NOW 90137.			
D	01–15–13	MKG	MKG
SHTs 6,7 REFER TO RESP SHTs REV BLOK.			
E	09–09–13	TLP	MKG
ADD NOTE 10			

PROPRIETARY
9 SEPT 2013

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

DO NOT SCALE DRAWING. USE DIMENSIONS AS INDICATED. IF MORE INFORMATION IS NEEDED, DRAWING IS NOT MANUALLY UPDATED.
THIRD ANGLE PROJECTION
BREAK ALL SHARP CORNERS AND REMOVE BURRS UNLESS OTHERWISE SPECIFIED. STAMP OR ETCH PART IDENTIFICATION IN AREA MARKED
MACHINED SURFACE TEXTURE
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED
1–PLACE DEC.±.060
2–PLACE DEC.±.030
3–PLACE DEC.±.010
NAME: ELECTRICAL SCHEMATIC, COVER SHEET
SIMILAR TO MK.–
MAT'L
FILE NO.
DR TLP 07–09–12
CK
AP MKG 07–09–12
SCALE NA | SHEET 1/14 | PART NO MG109–00900 | ISSUE E

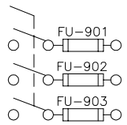
MG109–00900 sh01 REVE SCHEM ELEC cover 090913.dwg

GE OIL & GAS NA DT–xx'

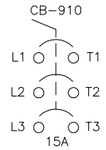
SYMBOL LEGEND

REV	DATE	BY	CHK
0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
NO CHANGES			
B	09-05-12	MKG	MKG
DELETE VFD.			

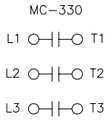
POWER



SWITCH, DISC WITH FUSES (3 PH)

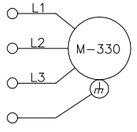


CIRCUIT BREAKER 10A (3 PHASE)



CONTACTS, NO, CONTACTOR (3 PH)

REDUCED VOLTAGE SOFT-STARTER



MOTOR 3 PHASE

HEATER ELEMENT, RESISTANCE TYPE

CONTROL

FUSE

CIRCUIT BREAKER, 1 POLE, 15 AMP

PUSHBUTTON, NC, MUSHROOM HEAD

PUSHBUTTON, NC, MOMENTARY

PUSHBUTTON, NC, MOMENTARY

INDICATOR, WHITE (CLEAR)

COIL, CONTROL RELAY, W/SURGE SUPPRESSOR

GROUND (PROTECTIVE EARTH)

CONTACTS, NC, OVERLOAD RELAY

CONTACTS, NO, CONTROL RELAY

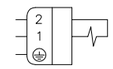
CONTACTS, NC, TEMPERATURE SWITCH

HEATER, MOTOR SPACE, 200 WATT

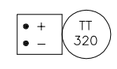
INSTRUMENTATION

VALVE, SOLENOID, DEPRESSURIZE 120VAC 17.1W ENERGIZE=OPEN

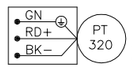
SOLENOID VALVE, SKID/FIELD



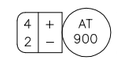
COIL, SOL VALVE, W/ CONNECTOR



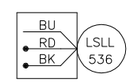
TRANSMITTER, TEMPERATURE



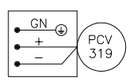
TRANSMITTER, PRESSURE, W/ LEADS



TRANSMITTER, LEL MONITOR

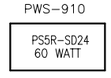


SWITCH, LEVEL LO LO

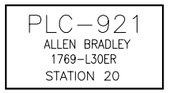


VALVE, PRESSURE CONTROL

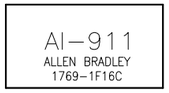
PLC & I/O



POWER SUPPLY, 60 WATT

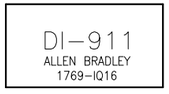


PROGRAMMABLE LOGIC CONTROLLER (PLC)

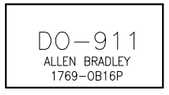


MODULE, I/O ANALOG INPUT

MODULE, I/O ANALOG OUTPUT



MODULE, I/O DISCRETE INPUT

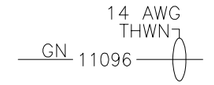


MODULE, I/O DISCRETE OUTPUT

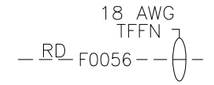
BARRIER, INTRINSIC SAFETY

WIRING

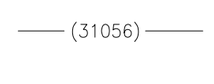
BORDER, PANEL WALL



WIRE, INTERNAL/SKID, GREEN 14 AWG THWN



WIRE, FIELD INSTALLED, RED 18 AWG TFFN



WIRE # 31056 REF ONLY NUMBER REPEATED ELSWHERE

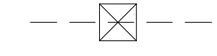
CROSS PAGE (NUMBER) CONNECTOR

COMMUNICATION LINK "AH", ETHERNET, FIELD INSTALLED

CONDUIT OR CABLE RUN, FIELD INSTALLED
LOW VOLTAGE 460V RUN 02

INDICATES EQUIPMENT SUPPLIED BY OTHERS

TERMINAL BLOCK 06
TERMINAL NUMBER 134



WIRE ROUTING PATH W/ CABLE TIE MOUNT

PROPRIETARY
5 SEPT 2012

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

DO NOT SCALE, CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE.
THIRD ANGLE PROJECTION
MACHINED SURFACE TEXTURE
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED: 1-PLACE DEC.±.060; 2-PLACE DEC.±.030; 3-PLACE DEC.±.010
BREAK ALL SHARP CORNERS AND REMOVE BURRS UNLESS OTHERWISE SPECIFIED. STAMP OR ETCH PART IDENTIFICATION IN AREA MARKED

NAME: ELECTRICAL SCHEMATIC, SYMBOLS LEGEND
SIMILAR TO: MK.-
MAT'L
FILE NO.

DR	TLP	07-09-12
CK		
AP	MKG	07-09-12

SCALE	SHEET	PART NO	ISSUE
NA	2/14	MG109-00900	B

MG109-00900 sh02 REVB SCHEM ELEC legend 090512.dwg

GE OIL & GAS NA DT-

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
UPDATE REMOTE POWER PNL FUSE TABLE.			
B	09-05-12	MKG	MKG
ADD " TO SIZES. REM PWR PNL TB01-21 to 24 NOW 21 to 23 & 25 to 27 NOW 24 to 27.			
C	09-20-12	MKG	MKG
FU-911... NOW FU-911 to FU-916.			

REMOTE PWR PNL

FUSE TABLE, REMOTE POWER PNL

REPLACE WITH THE FOLLOWING APPROVED FUSES ONLY !

REF	TYPE	SIZE	VOLT	CURRENT	BUSSMANN
FU-911 to FU-916	DELAY	1-1/16" x 2-3/8"	600 V	60 A	LPJ-60SP
FU-920, 921	DELAY	13/32" x 1-1/2"	600 V	6 A	FNQ-R-6
TB01-21 to 23	DELAY	5 X 20 mm	250 V	1/2 A	GMC-0.5
TB01-24 to 27	DELAY	5 X 20 mm	250 V	4 A	GMC-4
TB01-28	DELAY	5 X 20 mm	250 V	1/2 A	GMC-0.5
TB01-29	DELAY	5 X 20 mm	250 V	1-1/2 A	GMC-1.5
UPS-921 OUTLETS	FAST	1/4" x 1-1/4"	250 V	15 A	AGC-15
UPS-921 BATTERY	VERY FAST	1/4" x 1-1/4"	125 VDC	30 A	GBB-30

CONTROL PANEL

FUSE TABLE, CONTROL PANEL

REPLACE WITH THE FOLLOWING APPROVED FUSES ONLY !

REF	TYPE	SIZE	VOLT	CURRENT	BUSSMANN
TB02-1 to 2	DELAY	5 X 20 mm	250 V	3 A	GMC-3
TB02-3 to 4	DELAY	5 X 20 mm	250 V	1/2 A	GMC-0.5
TB02-5 to 6	DELAY	5 X 20 mm	250 V	1/4 A	GMC-0.25
TB02-7 to 18	DELAY	5 X 20 mm	250 V	1/2 A	GMC-0.5
TB02-19	DELAY	5 X 20 mm	250 V	1-1/2 A	GMC-1.5
TB02-20 to 21	DELAY	5 X 20 mm	250 V	1/2 A	GMC-0.5
TB02-22	DELAY	5 X 20 mm	250 V	1-1/2 A	GMC-1.5
TB02-23 to 30	DELAY	5 X 20 mm	250 V	1/2 A	GMC-0.5
TB05-1 to 2	DELAY	5 X 20 mm	250 V	4 A	GMC-4
TB06-1	DELAY	5 X 20 mm	250 V	3 A	GMC-3
TB06-2 to 3	FAST	5 X 20 mm	250 V	4 A	GMA-4
TB06-4 to 10	FAST	5 X 20 mm	250 V	1/2 A	GMA-0.5
TB07-1 to 16	FAST	5 X 20 mm	250 V	1/2 A	GMA-0.5
TB08-1 to 8	FAST	5 X 20 mm	250 V	1/2 A	GMA-0.5

PROPRIETARY
20 SEPT 2012

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DUBLIN, OHIO 43016

GE Oil & Gas

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SIMILAR TO
MK-
FILE NO.
MACHINED SURFACE TEXTURE
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED
1-PLACE DEC.±.060
2-PLACE DEC.±.030
3-PLACE DEC.±.010
NAME
ELECTRICAL SCHEMATIC,
FUSE TABLES
MAT'L

DR	TLP	07-09-12
CK		
AP	MKG	07-09-12

SCALE	SHEET	PART NO	ISSUE
NA	3/14	MG109-00900	C

MG109-00900 sh03 REVC SCHEM ELEC fuses 092012.dwg

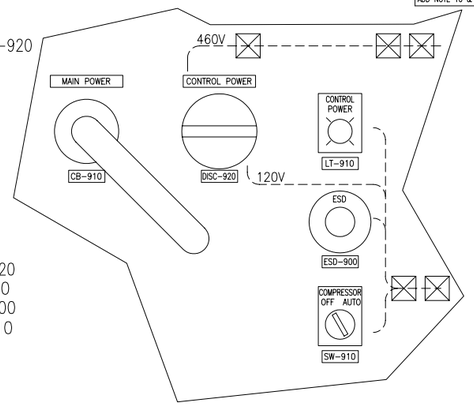
GE OIL & GAS NA DT-'xx'

REMOTE POWER PANEL

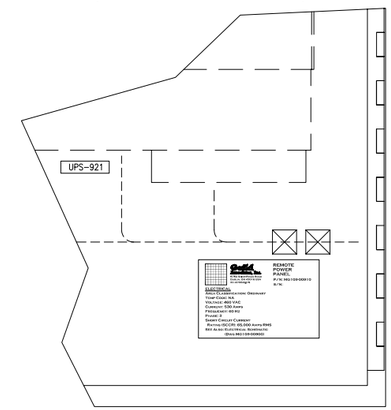
0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	TLP	MKG
ADD AUX1 TO MC-330 MOD AUX2 TO MC-330 ADD A1 & A2 TO MC-330 ADD AUX TO OL-340 & OL-511 DELETE LV03 & LV04 REROUTE LV01&LV02 CABLES REROUTE LV05&LV06 CABLES REROUTE MC-330 L1 CABLE ADD TERMINALS TO CB-921 CB-931, CB-941 ADD H-525 TO TB01			
B	09-05-12	MKG	MKG
TB01-24 FUSE NOW 4A. ADD AUXs TO MC-520 & 511. MOD CB-910 UV, AUX, & GND ROUTING.			
C	09-20-12	MKG	MKG
ADD FU-914 TO FU-916.			
D	09-09-13	TLP	MKG
ADD NOTE 10 & CM03			

PANEL POWER
VOLTAGE: 460 VAC
PHASE: 3
CURRENT: 530 A

REMOTE POWER PANEL (DOOR FRONT)



REMOTE POWER PANEL (INSIDE RIGHT DOOR)



460 1 x 2 x 7.5"
SET@ 70°F
TS-910
460 1 x 2 x 7.5"
TRANSFORMER 1.5 KVA 9T58K2813
T-920
120 1 x 2 x 7.5"
TRANSFORMER 2.0 KVA 9T58K2814
T-930
120 1 x 2 x 7.5"
2 x 3 x 30"
1 x 2 x 22"
UV-910
AUX
CB-910
RVSS-330
250 MCM
CK11BE311J
MC-330
TB04
TB05
EQUIPMENT GROUND LABEL
FAN-910
1/0 AWG
CB-930 CB-340 CB-520 CB-511 CB-525
MC-340 MC-520 MC-511 HC-525
OL-340 OL-520 OL-511
21 FLA MTR
0.9 FLA MTR
1.6 FLA MTR
7.
10.
1 x 2 x 19"
2 x 2 x 16"
2 x 2 x 36"
2 x 2 x 36"
PANEL WIRING
PANEL WIRING
FIELD WIRING
TO DISC-920
TO DISC-920 LT-910 ESD-900 SW-910
FROM UPS-921
CB-921
CB-931
CB-941
CR-902
TB01
TB02
TB03
UV-910
MC-330 RVSS-330
H-330 H-525 FAN-910
HOT1
HOT1-SW
NEUT1
GND
HOT2
NEUT2
GND
INSIDE RIGHT WALL

CM 03 — TO DISPENSERS
CM 01 — TO CONTROL PANEL & STORE
LV 01 — LEFT HOLES
LV 02 — FROM 800A SERVICE
LV 05 — TO COMPRESSOR MOTOR M-330
LV 06 — RIGHT HOLES
LV 07 — TO JUNCT BOX #930
LV 08 — TO DRYER REGEN 460V
CP 04 — TO DISPENSERS
CP 03 — TO DRYER REGEN ESD (OPT)
CP 02 — TO CONTROL PANEL
CP 01

MG109-00900 sh04 REVD SCHEM ELEC rem pwr pnl layout 090913.dwg

PROPRIETARY
9 SEPT 2013

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

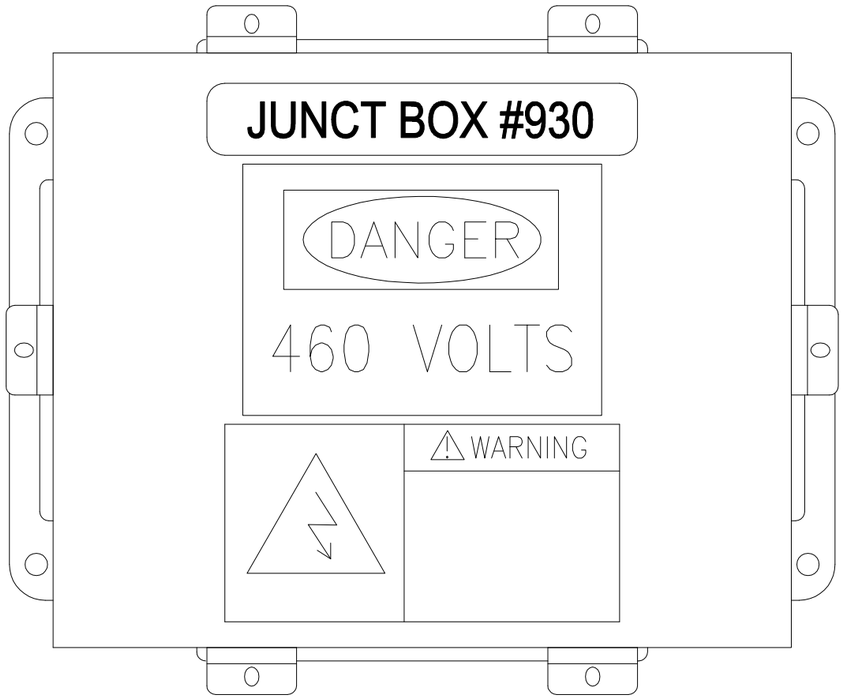
ELECTRICAL SCHEMATIC, REMOTE POWER PANEL (LAYOUT)

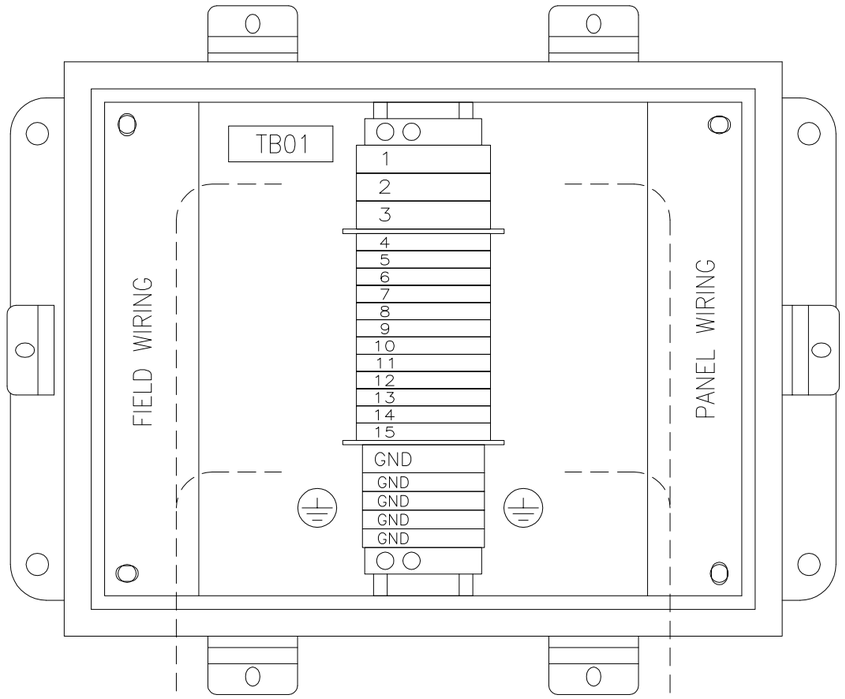
SIMILAR TO	MK.–		
FILE NO.			
MAT'L			
DR	TLP	07-09-12	
CK			
AP	MKG	07-09-12	

SCALE	SHEET	PART NO	ISSUE
NA	4/14	MG109-00900	D

GE OIL & GAS NA DT-'xx'

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
NO CHANGES			
B	09-05-12	MKG	MKG
MOV TB01 #s TO LEFT SIDE.			





LV
07

FROM REMOTE
POWER PANEL

COMPRESSOR
CONTAINER 460 VAC
M-340/M-511
M-520/H-525
(SEE SHT 06)

PROPRIETARY
5 SEPT 2012

MG109-00900 sh05 REVB SCHEM ELEC jb 930 layout 090512.dwg

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

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THIRD ANGLE PROJECTION
MACHINED SURFACE TEXTURE
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED
1-PLACE DEC.±.060
2-PLACE DEC.±.030
3-PLACE DEC.±.010

SIMILAR TO
MK. --
FILE NO.

NAME
ELECTRICAL SCHEMATIC,
JUNCTION BOX #930 (LAYOUT)
MAT'L

DR TLP 07-09-12
CK --
AP MKG 07-09-12

SCALE	SHEET	PART NO	ISSUE
NA	5/14	MG109-00900	B

GE OIL & GAS NA DT-

REMOTE POWER PANEL

BONDING

1/0 AWG MTW

TB04	BARE	90001	ENCLOSURE GND TAB
TB05	GN	90002	TB03
ENCLOSURE GND STUD	GN	90003	RIGHT DOOR GND STUD
ENCLOSURE GND STUD	GN	90004	LEFT DOOR GND STUD

12 AWG MTW

4 AWG MTW

BK 90137 — TOP L3 — FU-916 60A (LPJ-60SP) — BOT T3

BK 90136 — L2 — FU-915 60A (LPJ-60SP) — T2

BK 90135 — TOP L1 — FU-914 60A (LPJ-60SP) — BOT T1

LV 08 ✳ DRYER REGEN

BUS BAR

CB-525 6A — 14 AWG MTW — HC-525

BK 90007 L3 T3 — BK F0031

BK 90006 L2 T2 — BK F0030

BK 90005 L1 T1 — BK F0029

LV 07 ✳ — 14 AWG THWN — 6. ✳

CB-511 3A — MC-511 OL-511

BK 90010 L3 T3 — BK F0028

BK 90009 L2 T2 — BK F0027

BK 90008 L1 T1 — SET@ 1.6A — BK F0026

CB-520 2A — MC-520 OL-520

BK 90013 L3 T3 — BK F0025

BK 90012 L2 T2 — BK F0024

BK 90011 L1 T1 — SET@ 0.5A/0.7A — 10 — BK F0023

CB-340 30A — 10 AWG MTW — MC-340 OL-340

BK 90016 L3 T3 — BK F0022

BK 90015 L2 T2 — BK F0021

BK 90014 L1 T1 — SET@ 21A — BK F0020

8 AWG THWN

8. ✳ — GN F0019

TO CB-930 (SHEET 07) 3 4

BK 90017 — BK 90018

14 AWG MTW — 4 AWG MTW

TO FU-920,921 (SHEET 07) 1 2

4 AWG MTW — BK 90034 — BK 90035

CB-910 800A

BK 90137 — BK 90136 — BK 90135

FU-913 60A (LPJ-60SP) TOP L3 BOT T3 — BK 90021

FU-912 60A (LPJ-60SP) L2 T2 — BK 90020

FU-911 60A (LPJ-60SP) L1 TOP T1 BOT — BK 90019

4 AWG MTW — BK 90038 — BK 90037 — BK 90036

MC-330

BK 90027 L3 T3 BK 90033

BK 90026 BK 90032

BK 90025 L2 T2 BK 90031

BK 90024 BK 90030

BK 90023 L1 T1 BK 90029

BK 90022 BK 90028

BYPASS

250 MCM THW — C B A

250 MCM THW — BK 90045 BK 90044 — L3

BK 90043 BK 90042 — L2

BK 90041 BK 90040 BARE 90039 — L1 G

TB04 — 1/0 AWG MTW

RVSS-330 (400HP 460V)

T3 T2 T1

GE SOFT START QT20460U11MS

250 MCM THW

14 AWG THWN

14 AWG THWN

TBO1 15 14 13 SPARES

LV 05 ✳ — 8. ✳ — TB04 — GN F0010 — 1/0 AWG THWN-2

BK F0013 — BK F0012 — BK F0011 — 300 MCM THWN-2

LV 06 ✳ — 8. ✳ — TB04 — BK F0017 BK F0016 BK F0015 GN F0014 — 300 MCM THWN-2

MOTOR CHASSIS

MOTOR BOX — L3

MOTOR BOX — L2

MOTOR BOX — L1

MOTOR, COMPRESSOR M-330

400 HP

497 FLA @SF 1.15

432 FLA @SF 1.00

CONTAINER FRAME — 1/0 AWG THW — GN 11208

CONTAINER GROUND TABS — 1/0 AWG THWN — BARE F0111 — BARE F0112 — GN 01 ✳ — GROUND RODS

SWITCH GEAR ✳

SERVICE
460 VAC
800 AMP
3 PHASE
65,000A RMS
MAXIMUM IR

SOLIDLY GROUNDED WYE ONLY

LV 01 ✳ — 400 MCM THWN — T3 BK F0004 — T2 BK F0003 — T1 BK F0002 — GN F0001 — TB04 — 1/0 AWG THWN — 8. ✳

LV 02 ✳ — 400 MCM THWN — T3 BK F0008 — T2 BK F0007 — T1 BK F0006 — GN F0005 — TB04 — 1/0 AWG THWN — 8. ✳

HANDLE MECHANISM MNT SCREW — GN 90124 — TB02 — 14 AWG MTW

FRONT LUGS

JUNCTION BOX #930

TBO1 12 — BK 11004 — 14 AWG THWN

TBO1 11 — BK 11003

TBO1 10 — BK 11002

8. ✳ — GN 11001

TBO1 9 — BK 11008

TBO1 8 — BK 11007

TBO1 7 — BK 11006

8. ✳

TBO1 6 — BK 11012

TBO1 5 — BK 11011

TBO1 4 — BK 11010

TBO1 3 — BK 11016

TBO1 2 — BK 11015

TBO1 1 — BK 11014

8. ✳ — GN 11013

COMPRESSOR CONTAINER

TS-525 SET@ 125°F (1 2 / 4 3)

TSTAT, OIL HEATER

HEATER PRELUBE H-525
3 KW
3.8 AMP

HEATER CHASSIS

GN 11009 — MOTOR, PRELUBE PUMP M-511
3/4 HP
1.6 FLA

GN 11005 — MOTOR CHASSIS

MOTOR, OIL COOLER M-520
1/3 HP
0.5/0.7 FLA — 10

GN 11005 GN 11009 — MOTOR CHASSIS

MOTOR, GAS COOLER M-340
15 HP
21 FLA

MOTOR CHASSIS

8 AWG THWN

COMPRESSOR CONTAINER

CONTAINER FRAME — 1/0 AWG THW — GN 11208

CONTAINER GROUND TABS — 1/0 AWG THWN — BARE F0111 — BARE F0112 — GN 01 ✳ — GROUND RODS

PROPRIETARY
9 SEPT 2013

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	TLP	MKG
DELETE LV03 AND LV04. RECONFIG SERVICE TO CB-910 WIRES & RVSS-330 TO M-330. WIRES 90034 & 90035 NOW 4 AWG. ADD LOCATIONS TO BONDING. MOD MOTOR TERMS & ADD 4 TO 7, 5 TO 8, 6 TO 9. ADD GND WIRES F0111, F0112, AND F1208. ADD CB-910 HANDLE GND WIRE 90124.			
B	09-05-12	MKG	MKG
ADD OIL SETTINGS. WIRE # F1208 NOW 11208 GN THW.			
C	09-20-12	MKG	MKG
M-511 & M-520 CONNECTS 2 3 NOW 3 2. ADD: LV08, FU-914/915/916, & WIRES 90135-90137.			
D	01-15-13	MKG	MKG
ADD TS-525 TO HEATER POWER CIRCUIT.			
E	09-09-13	TLP	MKG
ADD NOTE 10			

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

ELECTRICAL SCHEMATIC, POWER/MOTORS/HEATER (460V)

SIMILAR TO MK.–

FILE NO.

DR TLP 07-09-12

CK

AP MKG 07-09-12

SCALE NA | SHEET 6/14 | PART NO MG109-00900 | ISSUE E

DO NOT SCALE, CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE.

BREAK ALL SHARP CORNERS AND REMOVE BURRS UNLESS OTHERWISE SPECIFIED. STAMP OR ETCH PART IDENTIFICATION IN AREA MARKED

UNLESS OTHERWISE SPECIFIED
1-PLACE DEC.±.060
2-PLACE DEC.±.030
3-PLACE DEC.±.010

ANGULAR TOLERANCE ±

MACHINED SURFACE TEXTURE

MG109-00900 sh06 REVE SCHEM ELEC pwr motor heatr 090913.dwg

GE OIL & GAS NA DT-'xx'

REMOTE POWER PANEL

FROM CB-910 (SHEET 06)
4 AWG MTW
FU-921 6A (FNQ-R-6)
FU-920 6A (FNQ-R-6)
14 AWG MTW
DISC-920 CONTROL PWR
T-920 TRANSFORMER 460/115VAC 1.5 KVA
CB-910 (AUX)
18 AWG AUX LEADS
TB01 4 RD 90125
TB01 5 WH 90126
TB01 6 BN/WH 90127
DISC-920
TB02 H1 RD 90050
T3 L3 CONTROL PWR
RD 90051
TB01 3
POWER CORD 14 AWG
UPS-921 SSG1.5KRM-1
OUTPUT (CONT) INPUT
BK 90052
WH 90056
GN 90058
BK 90053
WH 90057
GN 90059
UPS PWR CORD
CB-921 15A
T1 RIGHT L1 LEFT RD 90054
X1 X3 X2 X4
WH 90055
TB02 N1
GN 90060
CR-902 OUTPUTS ENABLED
TB02 H1SW RD 90061
RD 90062
TB02 H1SW TB02 H1 14 AWG MTW
RD 90063 RD 90064
ESD FIELD WIRING
CP 03 DRYER REGEN ESD-902
CP 04 SITE ESD(S) ESD-903
REMOTE PWR PNL ESD-900
14 AWG MTW
RD 90065
RD 90066
TB02 11
RD F0091
RD F0092
TB02 12
RD 90067
TB02 13
RD F0093
RD F0094
TB02 14
GN F0095
RD 90068
TB02 1
JUMPER
TB01 21 (GMC-0.5) 41
TB01 22 (GMC-0.5) 42
TB01 23 (GMC-0.5) 43
TB01 24 (GMC-4) 44
TB01 25 (GMC-4) 45
TB01 26 (GMC-4) 46
18 AWG MTW
RD 90069
RD 90072
RD 90073
SW-910 COMPRESSOR OFF AUTO
RVSS-330 EOR RELAY
CONTROL SUPPLY
18 AWG MTW
RD 90070
WH 90074
WH 90131
WH 90132
50-120 VAC
MC 330 AC
WH 90071
TB02 N1 BYPASS CONTACTOR COIL
TB02 N1 SOFT START CONTROL POWER
TB02 2 RD 90075
TB01 1 RD 90076
UV 910 AC
BU WH 90077
TB02 N1 UNDER VOLTAGE RELEASE
TB01 2 RD 90078
50-120 VAC
CR 902 AC
WH 90079
TB02 N1 OUTPUTS ENABLED RELAY
TB01 2 RD 90080
LT-910 CLR AC
WH 90081
TB02 N1 CONTROL POWER INDICATOR
STATION #40 RS485 D- D+ SG
QT20460U11MS
SERIAL NETWORK RS485, 9600, 8, ODD, 1
DISPENSERS
DISP-801 STATION #1
DISP-802 STATION #2
DISP-803 STATION #3
DISP-804 STATION #4
DISP-805 STATION #5
DISP-806 STATION #6
20 AWG PLTC
RS485 8- 7+ G
CM 03 G BK F0102 RD F0103 SH F0104
CM 04 H BK F0105 RD F0106 SH F0107
CM 05 I BK F0114 RD F0115 SH F0116
CONTAINER ESD/LEL/PLC (SHEET 09)
CONTROL PANEL
CP 01
14 AWG TFFN
RD F0057
RD F0056
HMI-921 BEIJER QTERM-A7
IP=192 .168.1.20
COM1 STAT #20 RS485
DB9 PLUG (PINS)
CM 01 F BK F0099 RD F0100 SH F0101
18 AWG MTW
31003 BU
31004 BU
31005 GN
TB06 1/2A 25 (GMA-0.5) 5
TB06 A0OM
TB06 A4-24
SW-921 SIXNET SLX-5ES-2SC
CAT5e BULKHEAD CONNECTOR
CAT5e PATCH
B ENET
A ENET
PLC-921 CPU 1769-L35E IP= 192.168.1.21
(P1) 31006 BU
(-) 31007 BU
31008 GN
TB06 1/2A 27 (GMA-0.5) 7
SPARE
STORE
INTERNET TO SCADA
CAT5e PATCH
CM 02 E
ROUTER
ENET CAT5E
CM 01 C
SPARE D

REMOTE POWER PANEL

FROM BUSBAR (SHEET 06)
14 AWG MTW
CB-930 8A
T-930 TRANSFORMER 460/115VAC 2 KVA
12 AWG MTW
4 BK (90018) TOP L2 T2 BK 90083
3 BK (90017) TOP L1 T1 BK 90082
H1 H3 H2 H4
CB-931 20A
12 AWG MTW
T1 RIGHT L1 LEFT RD 90085
X1 X3 X2 X4
GN 90086
TB03 H2 RD 90084
TB03 N2 WH 90087
DISPENSER POWER
CP 04
12 AWG THWN
TB02 15 RD F0096
TB02 16 WH F0097
GN F0098
DISP-801 7 AMP
8.
TB03 H2 RD 90088
TB03 N2 WH 90089
TB03 H2 RD 90090
TB03 N2 WH 90092
CB-941 16A GFCI
TB02 9 RD 90091
TB02 10 WH 90093
CP 01
RD F0064
WH F0065
HEAT TRACE
TB01 9 RD
TB01 10 WH
TB05 3 31001
TB05 4 31002
TB10
H-941 HEAT TRACING, OIL SUPPLY 150 W 1.3 AMP
H-942 HEAT TRACING, OIL TUBES 150 W 1.3 AMP
RD 11017
WH 11018
GN 11202
RD 11203
WH 11204
GN 11205
RD 90094
14 AWG MTW
CONTROL PANEL
COMPRESSOR MOTOR
TB01 27 (GMC-4) 47
14 AWG MTW
MC-330 AUX2
RD 90095
RD 90096
RD F0058
TB01 3
TB05 N2
H-330 MOTOR SPACE HEATER 200 W 1.7 AMP
14 AWG THWN
RD 11019
WH 11020
TB01 28 (GMC-0.5) 48
MC-330 (COMPR) AUX1
MC-511 (PRELUBE) AUX1
RD 90118
RD 90119
RD 90120
RD 90121
RD F0059
TB02 4
JUMPER
TB03 N2 WH 90122
50-120 VAC
HC 525 AC
RD 90123
RD F0060
TB02 5
H-525 CONTROL
TB1
20 AWG PLTC
SH 11210
BK 11206
EURO
TB01 4
TB01 5
RD 11207
COMPRESSOR CONTAINER
TB01 29 (GMC-1.5) 49
1.5A
TS-910 SET@ 70°F
RD 90097
RD 90098
WH 90099
GN 90100
L N PE
FAN 910
REMOTE PWR PNL COOLING FAN 0.5 AMP
18 AWG MTW

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
FU-920/FU-921 4 AWG WIRE WAS 14 AWG. UPS-921 H WIRES NOW BK. ESD CP04 WAS CP03. WIRE F0100, F0103, F0106 NOW RD. DISPENSERS 18 AWG PLTC WAS 20 AWG. REMOVE POINT OF SALE SYSTEM FROM DISPENSERS. ADD CB-910 (AUX). REMOVE DISP-902 FROM DISPENSER POWER. DISP-801 NOW 7 AMP. DISP-801 NOW CP-04. CP-941 WAS CP-931. ADD OIL HEATER CONTROL CIRCUIT. ADD TS-910 LABEL.			
B	09-05-12	MKG	MKG
TB01-24 FUSE NOW 4A. ADD WIRES 90131 & 90132, DB9 CONNECTOR TO HMI-921. DRAW TS-525 FOR CLARITY.			
C	09-20-12	MKG	MKG
HMI-921: ADD IP ADDR & (P1) TERM NOW +. RE-ASSIGN SW-921 PORTS. MOD FOR 3 DISPENSERS W/ 6 STATION #s. ADD CM05 W/COMM LINK L.			
D	01-15-13	MKG	MKG
DELETE TS-525. CONNECT WIRES 11206 & 11207 W/ EURO STYLE TERM BLOCK.			
D	01-15-13	MKG	MKG
CP01 AND HEAT TRACE WIRES NOW 12 AWG			

PROPRIETARY
9 SEPT 2013

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

DO NOT SCALE, CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE.
THIRD ANGLE PROJECTION
BREAK ALL SHARP CORNERS AND REMOVE BURRS UNLESS OTHERWISE SPECIFIED. STAMP OR ETCH PART IDENTIFICATION IN AREA MARKED
WT. R F
MACHINED SURFACE TEXTURE
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED: 1-PLACE DEC.±.060; 2-PLACE DEC.±.030; 3-PLACE DEC.±.010
SIMILAR TO MK.–
FILE NO.
MAT'L
NAME: ELECTRICAL SCHEMATIC, REMOTE POWER PANEL (120V)
DR TLP 07-09-12
CK
AP MKG 07-09-12
SCALE NA | SHEET 7/14 | PART NO MG109-00900 | ISSUE E

MG109-00900 sh07 REVE SCHEM ELEC rem pwr pnl 090913 .dwg

GE OIL & GAS NA DT-1

CONTROL PANEL

1 X 4 X 21.75"

TSHH-901/LT-920/H-330/FY-394/FY-319

BULKHEAD RJ-45

AT-900

FV-362 FV-366 FV-370 FV-378 FV-369 FV-373 FV-365 FV-374

1 X 4 X 45" FIELD CONTAINER FIELD

2 X 3 X 31.5" CONTAINER

TB11 GND 1 2

PS5R-SD24

TS-921 REX 015

Allen Bradley CompactLogix

1769-ECR

1769-OB16P

1769-OB16P

1769-IQ16

1769-PA2

1769-IF16C

1769-IF16C

1769-L30ER 1(FRONT)

SLX-5ES-2SC

SW-921 PLC-921 AI-921 AI-922 PWS-921 DI-921 DO-921 DO-922 PWS-922

2 X 3 X 19"

TB01 HOT1 HOT1-SW NEUT1 GND — NEUTRAL

TB02 PWS-921 PWS-922 AT-316 LT-915 STATUS' GND — H1

CR-921 PCV-319 PCV-394 FV-329 FV-339 FV-349 FV-359 FV-362 FV-366 FV-370 FV-374 FV-378 FV-526 M-341 M-330 M-340 M-520 M-511 — H1SW

FV-365 FV-369 — ESD

TB03 CRPCV-319 CRPCV-394 CRFV-329 CRFV-339 CRFV-349 CRFV-359 CRFV-362 CRFV-366 CRFV-370 CRFV-374 CRFV-378 CRFV-526 — DISCRETE OUTPUTS (DC COILS)

CR-901 CRLT-915 CRYY-341 CRYY-330 CRYY-340 CRYY-520 CRYY-511 — DISCRETE INS (AC COILS)

TB04 CRESD-900 CRUSLL-901 CRYS-910 CRYS-330 CRYS-340 CRYS-520 CRYS-511

TB05 H-92X LIGHTS HEAT TRC NEUT2 — H2

GND LABEL

TB10

AC AC AC

1 X 3 X 31.5"

DC DC DC

1 X 3 X 31.5"

DC DC DC

2 X 3 X 11.6"

CP 02 CP 01 TO REMOTE POWER PNL

TS-525/FV-526 FV-3X9/M-341 120 v

TB06 CR-921 A+24 DO-921 DO-922 DIs HMI-921 AT-900 SW-921 A+24 ACOM D+24 DCOM

TB07 ANALOG INPUTS — ANALYZER VIBRATION PRESSURE

TB08 ANALOG INPUTS — TEMPERATURE

TB09 DISCRETE INPUTS (24V) — FLOW LEVEL LEL

AT-316 SENS PWR 4-20

CM 01

TTs/VTs/FSLLs AE-316 24 V

(AC COILS)

TT-358

1 X 4 X 45"

LSLL-536 TT-920 PT-326 (300 PSIG) PT-320 (200 PSIG) (TO HMI) PT-346 (3,000 PSIG) PT-336 (2,000 PSIG) PT-391 (200PSIG) PT-358 (8,000 PSIG) PT-366 (8,000 PSIG) PT-362 (8,000 PSIG) PT-370 (8,000 PSIG) PT-532 (200 PSIG)

DOOR FRONT

HMI-921

ESD

ESD-901

LIGHTS OFF ON

HS-921

INSIDE DOOR

H-922 H-921

EHCREX020100-120 EHCREX020100-120

ENCLOSURE ROTATED FOR CLARITY

PROPRIETARY
9 SEPT 2013

CONTROL POWER PANEL

VOLT: 120 VAC

PHASE: 1

AMPS: 14.5 A

0	07-09-12	TLP MKG
	INITIAL RELEASE	
A	08-21-12	TLP MKG
	PLC-921 NOW 1769-L30ER. MOD SW-921 PORTS. DELETE MIDDLE RIGHT WIRE DUCT. ADD TB10 TO GND. MOVE TB-10 1-20 TO RIGHT SIDE OF CR'S.	
B	09-05-12	MKG MKG
	FV3628 & 3658 NOW PLUGS. MOV H-921 & 922 LEFT. ADD PT RANGES. ROTATE UPSIDE DOWN TEXT 180.	
C	09-09-13	TLP MKG
	DELETE PLUGS ON RIGHT SIDE. DELETE PLUGS FOR CP01&02 MOVE CM01 TO BTM LEFT NEW TB02&3&4 LABELS	

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THIRD ANGLE PROJECTION
BREAK ALL SHARP CORNERS AND REMOVE BURRS UNLESS OTHERWISE SPECIFIED. STAMP OR ETCH PART IDENTIFICATION IN AREA MARKED
SIMILAR TO MK.—
FILE NO.
WGT. R F
MACHINED SURFACE TEXTURE
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED
1-PLACE DEC.±.060
2-PLACE DEC.±.030
3-PLACE DEC.±.010
NAME
ELECTRICAL SCHEMATIC, CONTROL PANEL (LAYOUT)
MAT'L

DR	TLP	07-09-12
CK		
AP	MKG	07-09-12

SCALE	SHEET	PART NO	ISSUE
NA	8/14	MG109-00900	C

MG109-00900 sh08 REVC SCHEM ELEC control pnl layout 090913.dwg

GE OIL & GAS NA DT-xx'

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
REMOVE TB02 4-5 SPARES. ADD "TB06" TO CR-921. WIRE NO 11200 WAS 31034. WIRE NO 11201 WAS 31035. WIRE NO 11023 NOW TO TB01-2. WIRE NO 31038 NOW TO TB02-26. ADD GND LINES 31156-31158 TO TS-921/H-921.			
B	09-05-12	MKG	MKG
DELETE FV-365B. ASHH-900 TERM J4-NCE NOW -NCD. RE-ARRANGE FV-365/369/373.			
C	09-20-12	MKG	MKG
H-921/922 LEADS NOW BK. WIRE 31102 (CONNECT 11) NOW TO TB01-2. ADD WIRE 31160 (CONNECT 12).			
D	09-09-13	TLP	MKG
TB06-1 NOW 3A. LT-920 NOW LT-930.			

REMOTE POWER PANEL

ESD FROM TB02-1 (SHEET 07) 5

H1SW H1

SPARES

N1 TB02 H2

REMOTE POWER PANEL

N2

ESD TO TB02-2 (SHEET 07) 6

14 AWG THWN — RD (F0056) — TB01 1

12 AWG THWN — TB02 H1SW, TB02 H1 — RD F0052, RD F0051 — TB01 H1SW, TB01 H1

14 AWG THWN — TB02 6, TB02 7, TB02 8 — RD F0061, RD F0062, RD F0063 — TB01 6, TB01 7, TB01 8

CP 01

12 AWG THWN — TB02 N1, GND (PE), TB03 H2 — WH F0053, GN F0050, RD F0054 — TB01 N1, TB01 ⏚, TB05 1

12 AWG THWN — TB03 N2 — WH F0055

14 AWG THWN — RD (F0057) — TB01 2

14 AWG MTW — TB01 H1SW, TB01 H1

CONTROL PANEL

RD 31009 — TB02 7

RD 31010 — TB02 1

TB02 1 — 3A — 1 (GMC-3) 41 — RD 31011 — PWS-921 (L, N, ⏚; 1769-PA2) — WH 31016 — TB01 N — COMPACT LOGIX POWER

GN 31017 — TB01

16 AWG MTW

TB02 2 — 3A — 2 (GMC-3) 42 — RD 31012 — PWS-922 (L, N, ⏚; PS5R-SD24 60 WATT) — WH 31018 — TB01 N — CONTROL PANEL DC POWER

GN 31019 — TB01

GN 31020 — TB01

BU 31026 — TB06 CR-921(1) 11, 14 — 31028 BU — TB06 DCOM

BU 31013 — +V, -V — BU 31021 — TB06 ACOM

BU 31027 — TB06 CR-921(2) 11, 14 — 31029 BU — TB06 ACOM

TB06 3A — 1 (GMC-3) 21 — BU 31022 — TB06 A+24 — TB06 D+24, TB06 A+24

24VDC INSTRUMENT POWER BUS (SEE SHTs 10-14)

H1SW JUMPER

H1 JUMPER

N1 JUMPER

AT-316

TB02 1/2A — 3 (GMC-0.5) 43 — RD 31014 — POWER (P1) 1(L) ACH, 2(N) ACN, 4(G) COSA Model XDT-NEMA (SEE ALSO SHEET 10) — WH 31023 — TB01 N — DEWPOINT ANALYZER POWER

GN 31024 — TB01

4 — 8 — TB02 (SHT 13) LT-915 POWER

5 — SPARE

6 — 7 — TB02 (SHT 12) 120V DI STATUS'

TB02 1/2A — 7 (GMC-0.5) 47 — RD 31015 — TB06 CR 921(1) AC, CR 921(2) AC (JUMPR) — WH 31025 — TB01 N — DC OUTPUT PERMISSIVE RELAYS

8-21 — 9 — TB02 (SHT 14) H1SW 120VAC JUMPER

22-26 — 10 — TB02 (SHT 13) H1SW 120VAC JUMPER

TB05 1 — 4A — 1 (GMC-4) 41 — RD 31030 — TB11 1 — RD 31150 — TS-921 1, 2 (<52°F= CLOSED) — RD 31151 — TB11 2 — RD 31031 — TB05 5

H2 JUMPER

16 AWG MTW

TS-921 SWITCH LEADS — GN 31156 — TB11

TB05 5 — BK(1) 31152 — H-921 100 W 0.85 AMPS — BK(2) 31032 — TB05 N2 — CONTROL PANEL HEATER #1

GN 31157 — TB10

HEATER LEADS

BK(1) 31153 — H-922 100 W 0.85 AMPS — BK(2) 31154 — TB05 N2 — CONTROL PANEL HEATER #2

GN 31158 — TB10

N2 JUMPER

TB01 2 — RD (31102) — 11 — ESD-900 STATUS (SHT 12)

TB05 2 — 4A — 2 (GMC-4) 42 — RD 31033 — HS-921 3, 4 CONTAINER LIGHT SWITCH — RD 11200 — COMPR CONTAINER LT-930 H, AC, N 150W MAX — WH 11201 — TB05 N2 — CONTAINER LIGHT

16 AWG TFFN

RD (31160) — 12 — CB-910 STATUS (SHT 12)

BONDING

ENCL GN 31039

DOOR GN 31040

CONDUIT(SKID) GN 31041

12 AWG THWN — SUBPANEL GND BAR

CONTROL PANEL

BACK OF CONTROL PANEL

TB02 26 (H1SW) — RD 31038 — 16 AWG MTW

JUMPER BAR

TB02 1/2A — 27 (GMC-0.5) 67 — TB01-N1 — TB10 — RD 11033, RD 11034, GN 11035 — SOL VLV LEADS — FV-365 RD, RD, GN — VALVE, SOLENOID, STORAGE HIGH 120VAC 12W ENERGIZE=OPEN

TB02 1/2A — 28 (GMC-0.5) 68

TB02 1/2A — 29 (GMC-0.5) 69 — TB01-N1 — TB10 — RD 11027, RD 11028, GN 11029 — FV-369 RD, RD, GN — VALVE, SOLENOID, STORAGE MEDIUM 120VAC 12W ENERGIZE=OPEN

TB02 1/2A — 30 (GMC-0.5) 70 — TB01-N1 — TB10 — RD 11024, RD 11025, GN 11026 — FV-373 RD, RD, GN — VALVE, SOLENOID, STORAGE LOW 120VAC 12W ENERGIZE=OPEN

CONTROL PANEL DOOR

PERMIT OUTPUTS

ESD-901 1, 2 — RD 31036 — 16 AWG MTW — RD 31037 — 16 AWG MTW — CR-901 11, 14 (SEE ALSO SHEET 13) — RD 11197 — 16 AWG TFFN

AT-900

ALRM3 >25% LEL =OPEN — (ASHH-900) — TROUBLE FAULT =OPEN

J4 C, J4 NCD — RD 11198 — 16 AWG MTW (SEE ALSO SHTS 10,12) — J5 C, J5 NCE — RD 11021 — 16 AWG TFFN

COMPRESSOR CONTAINER

TSHH-900 (DOUBLE DOOR) > 190°F = OPEN — RD 11022 — 16 AWG TFFN

TSHH-901 (ABOVE MOTOR) > 190°F = OPEN — RD 11023 — 16 AWG TFFN

PROPRIETARY
9 SEPT 2013

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5750 SHIER RINGS ROAD
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GE Oil & Gas

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BREAK ALL SHARP CORNERS AND REMOVE BURRS UNLESS OTHERWISE SPECIFIED. STAMP OR ETCH PART IDENTIFICATION IN AREA MARKED
THIRD ANGLE PROJECTION
MACHINED SURFACE TEXTURE
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED 1-PLACE DEC.±.060 2-PLACE DEC.±.030 3-PLACE DEC.±.010

NAME: ELECTRICAL SCHEMATIC, CONTROL PANEL (120V)
SIMILAR TO: MK.-
MAT'L
FILE NO.
DR TLP 07-09-12
CK
AP MKG 07-09-12
SCALE NA | SHEET 9/14 | PART NO MG109-00900 | ISSUE D

MG109-00900 sh09 REVD SCHEM ELEC control pnl 090913.dwg

GE OIL & GAS NA DT-

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
ADD "TB07" TO GNDS. LINES 11037, 11040, 31052 NOW RD. VT-330 NOW ON THROW 1.			
B	09-05-12	MKG	MKG
ADD PB-900 TO AT-900. RE-NUMBER WIRES ON PTs: 366,362,346,326,391,320.			

CONTROL PANEL

16 AWG MTW BU 31043 — TB06 A+24 — TB06 ACOM — 16 AWG MTW

31043 BU COM

31042 BU COM

31044 BU

JUMPER BAR

20 AWG MTW

20 AWG PLTC

(SEE ALSO SHEET 9,12)

AT-900

J10 ACK — SWITCH LEADS — WH, WH — PB 900 — LEL RESET BUTTON

J8 1 VDC — POWER, 24VDC, LEL (AT900) 290 mA

J8 3 -GND

J8 2 OUT — 4-20 mA 0-100% LEL SELF-PWRD

NO CONNECT

16 AWG TFFN

TB07 SH 11036			
TB07 [1/2A] (GMA-0.5) 36	RD 11037	J1 G	BU 11054 — GND
BK 11038		J1 R	BU 11055 — RX
TB09 SH 11039		J1 T	BU 11056 — TX
TB07 56	RD 11040	J1 5	BU 11057 — 5V
TB09 BK 11041			

AE 900 — LEL REMOTE SENSOR

ANALYZER, LEL, COMPRESSOR CONTAINER

IN15 BU 31045 — TB07 16

(SEE ALSO SHEET 9)

4-20 mA -148 to 68 DEGF

AT-316 COSA Model XDT-NEMA

TB07 [1/2A] (GMA-0.5) 35	SH 31051		
TB07 15	RD 31052	7 A-OUT — SIG-IN 5	WH 11058
BK 31053		8 A-RET — SIG-RET 6	BK 11059

SENSOR CABLE

ANALYZER, DEW POINT DRYER OUT

AE-316 DEWPOINT SENSOR ELEMENT XTR-100

IN14 BU 31046 — TB07 15

TB07 GN 11042			
TB07 [1/2A] (GMA-0.5) 34	WH 11043	A+	VT 332 — 4-20 mA 0 to 1 IPS (Inches/Sec) — VIBRATION, COMPRESSOR MOTOR
TB07 54	RD 11044	B-	
NO CONNECT	BK 11045	C	

GE CABLE ASSY 16710

IN13 BU 31047 — TB07 14

TB07 GN 11046			
TB07 [1/2A] (GMA-0.5) 33	WH 11047	A+	VT 331 — 4-20 mA 0 to 1 IPS (Inches/Sec) — VIBRATION, COMPRESSOR THROW 4
TB07 53	RD 11048	B-	
NO CONNECT	BK 11049	C	

GE CABLE ASSY 16710

IN12 BU 31048 — TB07 13

TB07 GN 11050			
TB07 [1/2A] (GMA-0.5) 32	WH 11051	A+	VT 330 — 4-20 mA 0 to 1 IPS (Inches/Sec) — VIBRATION, COMPRESSOR THROW 1
TB07 52	RD 11052	B-	
NO CONNECT	BK 11053	C	

GE CABLE ASSY 16710

IN11 BU 31049 — TB07 12

TB07 [1/2A] (GMA-0.5) N/C 31 — TB07 11 — IN10 BU 31050

SLOT 1 AI-921 1769-IF16C

CONTROL PANEL

COMPRESSOR CONTAINER

CONTROL PANEL

LEFT WALL OF CONTROL PANEL

(NOTE: NOT PHYSICALLY IN THESE POSITIONS. SEE SHEET 08 FOR ACTUAL LOCATIONS)

20 AWG MTW — A+24

IN9 BU 31054 — TB07 10 — TB07 [1/2A] (GMA-0.5) 30

TB07 SH 11060			
TB07 50	BN+ 11061	WH, BN+, GN-	PT 532 — 4-20 mA 0-200 PSIG — PRESSURE, COMPRESSOR OIL
	GN- 11062		

IN8 BU 31055 — TB07 9 — TB07 [1/2A] (GMA-0.5) 29

TB07 SH 11063			
TB07 49	BN+ 11064	WH, BN+, GN-	PT 370 — 4-20 mA 0-8000 PSIG — PRESSURE, STORAGE LOW
	GN- 11065		

IN7 BU 31056 — TB07 8 — TB07 [1/2A] (GMA-0.5) 28

TB07 SH 11069			
TB07 48	BN+ 11070	WH, BN+, GN-	PT 366 — 4-20 mA 0-8000 PSIG — PRESSURE, STORAGE MEDIUM
	GN- 11071		

JUMPER BAR

IN6 BU 31057 — TB07 7 — TB07 [1/2A] (GMA-0.5) 27

TB07 SH 11066			
TB07 47	BN+ 11067	WH, BN+, GN-	PT 362 — 4-20 mA 0-8000 PSIG — PRESSURE, STORAGE HIGH
	GN- 11068		

IN5 BU 31058 — TB07 6 — TB07 [1/2A] (GMA-0.5) 26

TB07 SH 11072			
TB07 46	BN+ 11073	WH, BN+, GN-	PT 358 — 4-20 mA 0-8000 PSIG — PRESSURE, COMPRESSOR DISCHARGE
	GN- 11074		

IN4 BU 31059 — TB07 5 — TB07 [1/2A] (GMA-0.5) 25

TB07 SH 11081			
TB07 45	BN+ 11082	WH, BN+, GN-	PT 346 — 4-20 mA 0-3000 PSIG — PRESSURE, STAGE 3 OUT
	GN- 11083		

IN3 BU 31060 — TB07 4 — TB07 [1/2A] (GMA-0.5) 24

TB07 SH 11078			
TB07 44	BN+ 11079	WH, BN+, GN-	PT 336 — 4-20 mA 0-2000 PSIG — PRESSURE, STAGE 2 OUT
	GN- 11080		

JUMPER BAR

IN2 BU 31061 — TB07 3 — TB07 [1/2A] (GMA-0.5) 23

TB07 SH 11087			
TB07 43	BN+ 11088	WH, BN+, GN-	PT 326 — 4-20 mA 0-300 PSIG — PRESSURE, STAGE 1 OUT
	GN- 11089		

IN1 BU 31062 — TB07 2 — TB07 [1/2A] (GMA-0.5) 22

TB07 SH 11075			
TB07 42	BN+ 11076	WH, BN+, GN-	PT 391 — 4-20 mA 0-200 PSIG — PRESSURE, BLOWDOWN TANK
	GN- 11077		

IN0 BU 31063 — TB07 1 — TB07 [1/2A] (GMA-0.5) 21

TB07 SH 11084			
TB07 41	BN+ 11085	WH, BN+, GN-	PT 320 — 4-20 mA 0-200 PSIG — PRESSURE, COMPRESSOR SUCTION
	GN- 11086		

SLOT 1 AI-921 1769-IF16C (CONTINUED)

CONTROL PANEL

PROPRIETARY
5 SEPT 2012

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

DO NOT SCALE CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE.
THIRD ANGLE PROJECTION
BREAK ALL SHARP CORNERS AND REMOVE BURRS UNLESS OTHERWISE SPECIFIED. STAMP OR ETCH PART IDENTIFICATION IN AREA MARKED
MACHINED SURFACE TEXTURE
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED
1-PLACE DEC.±.060
2-PLACE DEC.±.030
3-PLACE DEC.±.010

NAME: ELECTRICAL SCHEMATIC, CONTROL (ANALOG INPUTS)
SIMILAR TO: MK.-
MAT'L
FILE NO.
DR TLP 07-09-12
CK
APCAGNON 07-09-12

SCALE	SHEET	PART NO	ISSUE
NA	10/14	MG109-00900	B

MG109-00900 sh10 REVB SCHEM ELEC control AI 090512.dwg

GE OIL & GAS NA DT-1

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
ADD TB08 ACOM TO WIRE NO 31065. ADD "TB08" TO GNDS. CHANGE ALL PLTC WIRES FROM WH TO RD. TT-920/TT-526 WIRES NOW 20 AWG PLTC. REMOVE WIRE NOS 11114-11137 TT TO TE. CORRECTED WIRE NO 11103.			
B	09-05-12	MKG	MKG
NO CHANGES			

CONTROL PANEL

16 AWG MTW — BU 31065 — TB06 A+24 — TB06 ACOM — 16 AWG MTW — 31066 BU

31065 BU — COM
31064 BU — COM

SLOT 2
AI-922
1769-IF16C

IN15 IN14 IN13 IN12 IN11 IN10 IN9 IN8 IN7 IN6

JUMPER BAR

20 AWG MTW

IN6	BU 31068	TB08 7	TB08 [1/2A] (GMA-0.5)	27	TB08 47	BK	11095	RD	TEMPERATURE, COMPRESSOR OIL
						SH	11093	WH	
IN7	BU 31067	TB08 8	TB08 [1/2A] (GMA-0.5)	28	TB08 48	BK	11092	RD	TEMPERATURE, COMPRESSOR CONTAINER
						SH	11090	WH	

20 AWG PLTC

TT 920	4-20 mA -50 to 400°F	RTD TE 920	TEMPERATURE, COMPRESSOR CONTAINER
TT 526	4-20 mA -50 to 400°F	RTD TE 526	TEMPERATURE, COMPRESSOR OIL

CONTROL PANEL

SLOT 2
AI-922
1769-IF16C
(CONTINUED)

IN5 IN4 IN3 IN2 IN1 IN0

JUMPER BAR

20 AWG MTW

IN0	BU 31074	TB08 1	TB08 [1/2A] (GMA-0.5)	21	TB08 41	BK	11113	RD	TEMPERATURE, COMPRESSOR SUCTION
						SH	11111	WH	
IN1	BU 31073	TB08 2	TB08 [1/2A] (GMA-0.5)	22	TB08 42	BK	11110	RD	TEMPERATURE, COMPRESSOR STAGE #1 DISCHARGE
						SH	11108	WH	
IN2	BU 31072	TB08 3	TB08 [1/2A] (GMA-0.5)	23	TB08 43	BK	11107	RD	TEMPERATURE, COMPRESSOR STAGE #2 DISCHARGE
						SH	11105	WH	
IN3	BU 31071	TB08 4	TB08 [1/2A] (GMA-0.5)	24	TB08 44	BK	11104	RD	TEMPERATURE, COMPRESSOR STAGE #3 DISCHARGE
						SH	11102	WH	
IN4	BU 31070	TB08 5	TB08 [1/2A] (GMA-0.5)	25	TB08 45	BK	11101	RD	TEMPERATURE, COMPRESSOR STAGE #4 DISCHARGE
						SH	11099	WH	
IN5	BU 31069	TB08 6	TB08 [1/2A] (GMA-0.5)	26	TB08 46	BK	11098	RD	TEMPERATURE, COMPRESSOR DISCHARGE
						SH	11096	WH	

20 AWG PLTC

TT 358	4-20 mA -50 to 400°F	RTD TE 358	TEMPERATURE, COMPRESSOR DISCHARGE
TT 354	4-20 mA -50 to 400°F	RTD TE 354	TEMPERATURE, COMPRESSOR STAGE #4 DISCHARGE
TT 344	4-20 mA -50 to 400°F	RTD TE 344	TEMPERATURE, COMPRESSOR STAGE #3 DISCHARGE
TT 334	4-20 mA -50 to 400°F	RTD TE 334	TEMPERATURE, COMPRESSOR STAGE #2 DISCHARGE
TT 324	4-20 mA -50 to 400°F	RTD TE 324	TEMPERATURE, COMPRESSOR STAGE #1 DISCHARGE
TT 320	4-20 mA -50 to 400°F	RTD TE 320	TEMPERATURE, COMPRESSOR SUCTION

CONTROL PANEL

PROPRIETARY
5 SEPT 2012

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

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SIMILAR TO MK,-
MACHINED SURFACE TEXTURE
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED: 1-PLACE DEC.±.060; 2-PLACE DEC.±.030; 3-PLACE DEC.±.010

NAME: ELECTRICAL SCHEMATIC, CONTROL (ANALOG INPUTS)
MAT'L
FILE NO.

DR	TLP	07-09-12
CK		
AP	MKG	07-09-12

SCALE	SHEET	PART NO	ISSUE
NA	11/14	MG109-00900	B

MG109-00900 sh11 REVB SCHEM ELEC control AI 090512.dwg

GE OIL & GAS NA DT-'xx'

CONTROL PANEL

20 AWG MTW
BU 31076
TB06 ACOM
COM1
COM2
31076 BU
31075 BU
A+24
TB06 (1772A) 4
24 (GMC-0.5)
BU 31101
BU 31093
20 AWG MTW
IN15
IN14
IN13 BU 31079
IN12 BU 31080
IN11 BU 31081
IN10 BU 31082
IN9 BU 31083
IN8 BU 31084
SLOT 3
DI-921
1769-IQ16
BU 31096
BU 31097
BU 31098
BU 31099
BU 31100
20 AWG MTW
20 AWG PLTC

COMPRESSOR CONTAINER

TB09 SH 11138 — GN — FSLL 539 — SWITCH, FLOW LO LO, COMPRESSOR, THROW 1/3 CYLINDER LUBE
TB09 12 RD 11139 — YL
TB09 11 BK 11140 — YL
TOGGLING=OK FROZEN=FLOW LO (TIMED PULSES)

TB09 SH 11141 — GN — FSLL 538 — SWITCH, FLOW LO LO, COMPRESSOR, THROW 2/4 CYLINDER LUBE
TB09 10 RD 11142 — YL
TB09 9 BK 11143 — YL
TOGGLING=OK FROZEN=FLOW LO (TIMED PULSES)

TB09 SH 11144 — GN ⊕ — LSLL 536 — SWITCH, LEVEL LO LO, COMPRESSOR, OIL SUPPLY
TB09 8 RD 11145 — C
TB09 7 BK 11146 — NC
NO
CLOSE=OK OPEN=LVL LO

TB09 SH 11147 — REMOVE GND WIRE — LSLL 530 — SWITCH, LEVEL LO LO, COMPRESSOR, MAKEUP OIL
TB09 6 RD 11148 — YL(COM)
TB09 5 BK 11149 — BK(NRML)
RD
CUT TO 2" DON'T STRIP
CLOSE=OK OPEN=LVL LO

TB09 SH 11150 — AT-900 — ASH 900 — LEL COMPRESSOR, CONTAINER
TB09 2 RD 11151 — J2 NCD
TB09 1 BK 11152 — J2 C
ALRM1> 10% LEL
CLOSE=OK OPEN>10% LEL
(SEE ALSO SHTS 9,10)

TB01 N1
31155 WH
H1(120VAC) (SHT 9)
7
TB02 (1774A) 6
46 (GMC-0.25)
20 AWG MTW

IN7 BU 31085 — CR XXX 11 14 — CR XXX A1 8 AC A2
IN6 BU 31086 — CR YS-511 11 14 — CR YS-511 A1 7 AC A2
IN5 BU 31087 — CR YS-520 11 14 — CR YS-520 A1 6 AC A2
IN4 BU 31088 — CR YS-340 11 14 — CR YS-340 A1 5 AC A2
IN3 BU 31089 — CR YS-330 11 14 — CR YS-330 A1 4 AC A2
IN2 BU 31090 — CR YS-910 11 14 — CR YS-910 A1 3 AC A2
IN1 BU 31091 — CR JSLL-901 11 14 — CR JSLL-901 A1 2 AC A2
IN0 BU 31092 — CR ESD-900 11 14 — CR ESD-900 A1 1 AC A2
JUMPER BAR
JUMPER BAR

RD 31160 — 12 — 20 AWG MTW — TB05 42 YS-910 (ALSO SEE SHT 9)
RD 31102 — 11 — 20 AWG MTW — TB01 2 ESD-900 (ALSO SEE SHT 9)

SLOT 3
DI-921
1769-IQ16

REMOTE POWER PANEL

18 AWG TFFN
CP 02
5.

TB10 RD F0090 — TB03 25 SPARE
TB10 RD F0089 — TB03 24 SPARE
TB10 RD F0088 — TB03 23 SPARE
TB10 RD F0087 — TB03 22 SPARE
TB10 RD F0082 — TB03 17 SPARE

18 AWG MTW

RD F0080 — TB03 15 — RD 90101 — 3 — 4 — MC-511 (AUX 2) — YS-511 — PRELUBE PUMP
RD F0086 — TB03 21 — RD 90102
RUN STATUS (OPEN=STOP/OL CLOSED=RUN)

RD F0085 — TB03 20 — RD 90103 — 3 — 4 — MC-520 (AUX 1) — YS-520 — OIL COOLER
RD 90104
RUN STATUS (OPEN=STOP/OL CLOSED=RUN)

RD F0084 — TB03 19 — RD 90105 — 3 — 4 — MC-340 (AUX 1) — YS-340 — GAS COOLER
RD 90106
RUN STATUS (OPEN=STOP/OL CLOSED=RUN)

RD F0083 — TB03 18 — RD 90107 — 43 — 44 — MC-330 (AUX 2) — YS-330 — GAS COMPRESSOR
RD 90108
RUN STATUS (OPEN=STOP/OL CLOSED=RUN)

MAIN BREAKER
STATUS (120VAC=OK 0VAC=CB OPEN)

18 AWG TFFN
RD F0081 — TB03 16 — RD 90109 — 4 — UPS-921 — JSLL-901 — POWER LOSS
RD 90110 — 3 — DB-9 (RELAY BOARD NOT RS232)
20 AWG UL1007 (300V)
STATUS (OPEN=POWER OUTAGE CLOSED=OK)

EMERGENCY SHUTDOWN
STATUS (120VAC=OK 0VAC=ESD OPEN)

CONTROL PANEL

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
REMOVE WIRE NOS 31077, 31078, 31094, 31095. CONNECT FSLL-538/539, LSLL-530 GND TO SH. CHANGE PLTC WIRES FROM WH TO RD. CORRECT WIRE NO 31093, WIRE NO 31076 NOW TO TB06 ACOM. MC-330, 340, 511, 520 WIRES NOW 18 AWG MTW. WIRE NOS F0080-F0090 NOW TFFN.			
B	09-05-12	MKG	MKG
LSLL-536 TERMS NOW C NC NO. ASH-900 J2-NCE NOW -NCD. MC-511 NOW AUX2 W/TERMS 3 & 4. MC-520 NOW AUX1 W/TERMS 3 & 4. MC-340 NOW AUX1.			
C	09-20-12	MKG	MKG
LSLL-530: DEL GND WIRE, ADD NOTE TO CUT 2" & DON'T STRIP RED LEAD. WIRES: 90109, 90110 NOW UL1007 (300V), 31102 NOW CONNECT 11 TO TB01-2. ADD MAIN BREAKER STATUS CIRCUIT TO DI-921-IN2.			

PROPRIETARY
20 SEPT 2012

Guild Associates, Inc.
5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

GE Oil & Gas

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MACHINED SURFACE FINISH
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED
1-PLACE DEC.±.060
2-PLACE DEC.±.030
3-PLACE DEC.±.010

NAME: ELECTRICAL SCHEMATIC, CONTROL (DISCRETE INPUTS)
SIMILAR TO MK.-
FILE NO.
MAT'L
DR TLP 07-09-12
OK
AP MKG 07-09-12
SCALE NA | SHEET 12/14 | PART NO MG109-00900 | ISSUE C

MG109-00900 sh12 REVC SCHEM ELEC control DI 092012.dwg

GE OIL & GAS NA DT-

CONTROL PANEL

REMOTE POWER PANEL

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
ADD F0113 GND TO GND. LINES F0066-F0068 AND F007-F0079 NOW 18 AWG TFFN AND RD. LINE 31114 NOW 20 AWG MTW AND BU. ADD 11209 TO COMPRESSOR CONTAINER LOUVERS.			
B	09-05-12	MKG	MKG
ADD: OL-511, OL-520, OL-340, WIRES 90128-90130, 90133, 90134, & TERMS 4 & 5 TO RVSS-330. M-341 FLIP TERMS 2 & 3.			
C	09-20-12	MKG	MKG
TB02-N's NOW N1's.			
D	09-09-13	TLP	MKG
MOD LT-915 ADD M-341 INFO..			

18 AWG MTW
TB06 4A
23 (GMA-4) 3
BU 31104
TB06 A1+24
BU 31105
TB06 DCOM
BU 31106
DC COM
+VDC
31105 BU
31103 BU
OUT7
OUT6
OUT5
OUT4
OUT3
OUT2
OUT1
OUT0
20 AWG MTW
JMPR BAR
JMPR
BU 31107
BU 31108
BU 31109
BU 31110
BU 31111
BU 31112
BU 31113
A1
A2
CR YY-511 20
CR YY-520 19
CR YY-340 18
CR YY-330 17
CR YY-341 16
CR LT-915 15
CR 901 14
SLOT 5
DO-922
1769-OB16P
BU 31114
20 AWG MTW
TB06 ACOM

TB01 H1SW (120 VAC) (SHT 9)
10
18 AWG MTW
TB02 1/2A
26 (GMC-0.5) 66
25 (GMC-0.5) 65
24 (GMC-0.5) 64
23 (GMC-0.5) 63
22 (GMC-1.5) 62
TB02 1.5A
4 (GMC-0.5) 44
RD 31115
RD 31116
RD 31117
RD 31118
RD 31119
RD 31120
CRYY-511 14 11
CRYY-520 14 11
CRYY-340 14 11
CRYY-330 14 11
CRYY-341 11 14
CRLT-915 14 11
8
H1
PERMIT OUTPUTS (SHT 09)

5.
CP 02
12 AWG THWN
18 AWG TFFN
18 AWG 25 COND
TB10 GN F0113 TB03
TB10 RD F0066 TB03 1 SPARE
TB10 RD F0067 TB03 2 SPARE
TB10 RD F0068 TB03 3 SPARE
TB10 RD F0070 TB03 5 SPARE
TB10 RD F0079 TB03 14 RD 90111
TB02 N1 WH 90112
TB10 RD F0078 TB03 13 SPARE
TB10 RD F0077 TB03 12 RD 90113
TB02 N1 WH 90114
TB10 RD F0076 TB03 11 SPARE
TB10 RD F0075 TB03 10 RD 90115
TB02 N1 WH 90116
TB10 RD F0074 TB03 9 SPARE
TB10 RD F0073 TB03 8 RD 90117
TB10 RD F0072 TB03 7 SPARE
TB10 RD F0071 TB03 6 SPARE
RD F0069 TB03 4
TB02 N1 WH F0109
GND GN F0110 GND
RD F0108
14 AWG THWN
CP 03

18 AWG MTW
95 OL-511 96 RD 90128
50-120 VAC
MC 511 AC
A1 A2 WH
YY-511
MOTOR, PRELUBE
START
(0 VAC=STOP
120 VAC=START)

95 OL-520 96 RD 90129
MC 520 AC
YY-520
MOTOR, OIL COOLER
START
(0 VAC=STOP
120 VAC=START)

95 OL-340 96 RD 90130
MC 340 AC
YY-340
MOTOR, GAS COOLER
START
(0 VAC=STOP
120 VAC=START)

SOFT START COMPRESSOR
YY-330 RVSS-330
START
(0 VAC=STOP
120 VAC=START)
RD 90134 5
RD 90133 4
6

COMPRESSOR CONTAINER LOUVERS
OPEN/CLOSE
120VAC
0.7 AMPS
M 341 YY-341
2 120 VAC=OPEN
3 120 VAC=CLOSE
1
6
G
RD 11153
RD 11154
N1 WH 11155
RD 11209
GN 11196

HORN
LT-915
L
COM
RED
AC
GND
BEACON/HORN
120VAC
0.16 AMPS

PROPRIETARY
9 SEPT 2013

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5750 SHIER RINGS ROAD
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GE Oil & Gas

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MACHINED SURFACE TEXTURE
WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED
1-PLACE DEC.±.060
2-PLACE DEC.±.030
3-PLACE DEC.±.010
NAME
ELECTRICAL SCHEMATIC, CONTROL (DISCRETE OUTPUTS MOTOR XTROL)
SIMILAR TO MK.-
FILE NO.
MAT'L
DR TLP 07-09-12
CK
AP MKG 07-09-12
SCALE NA | SHEET 13/14 | PART NO MG109-00900 | ISSUE D

MG109-00900 sh13 REVD SCHEM ELEC control DO 090913.dwg

GE OIL & GAS NA DT-

0	07-09-12	TLP	MKG
INITIAL RELEASE			
A	08-21-12	JAM	MKG
ADD WIRE NO 31159. ADD "TB10" TO GNDS. FV-374 NOW DIRECT FLOW. FV-370 NOW STORAGE LOW. WIRE NOS 11177-11194 NOW 18 AWG TFFN - RD, RD, GN.			
B	09-05-12	MKG	MKG
EDIT FV-526 TERM #s. DEL FV-362B & WIRE 31136.			
C	09-09-13	TLP	MKG
CRFV-362B NOW CR-XX1 PCV-370 NOW FV-370.			

CONTROL PANEL

18 AWG MTW — TB06 4A (GMA-4) 22 — 2 — BU 31122 — TB06 D+24

BU 31123 — TB06 DCOM

DC COM — 31123 BU — +VDC — 31121 BU

20 AWG MTW

BU 31159

OUT15 — OUT14 — OUT13 — OUT12 — OUT11 — OUT10 — OUT9 — OUT8 — OUT7 — OUT6

OUT11 BU 31124 — A1 CR FV-526 A2 — 12

OUT10 BU 31125 — A1 CR FV-378 A2 — 11

OUT9 BU 31126 — A1 CR FV-374 A2 — 10

OUT8 BU 31127 — A1 CR PCV-370 A2 — 9

OUT7 BU 31128 — A1 CR FV-366 A2 — 8

OUT6 BU 31129 — A1 CR FV-362 A2 — 7

JMPR BAR

20 AWG MTW

SLOT 4
DO-921
1769-OB16P

TB02 H1SW (120 VAC) (SHT 9) — 9

H1SW(120VAC) JMPR

TB02 1/2A
- 21 (GMC-0.5) 61 — SPARE
- 20 (GMC-0.5) 60 — RD — 31137 — CRFV-XX1 14 11
- 19 (GMC-1.5) 59 — RD — 31138 — CRFV-526 11 14 12
- 18 (GMC-0.5) 58 — RD — 31139 — CRFV-378 14 11
- 17 (GMC-0.5) 57 — RD — 31140 — CRFV-374 14 11
- 16 (GMC-0.5) 56 — RD — 31141 — CRPCV-370 14 11
- 15 (GMC-0.5) 55 — RD — 31142 — CRFV-366 14 11
- 14 (GMC-0.5) 54 — RD — 31143 — CRFV-362 14 11

20 AWG MTW

SOLENOID VALVE LEADS

TB01 N1

TB10

18 AWG TFFN

FV-526	3 BEARINGS	11159	RD
	4 BYPASS	11160	RD
	1 NEUTRAL	11161	WH
	2 HEATER	11199	RD
		11195	GN

VALVE, MOTOR ACTUATED, COMPR LUBE BYPASS
120VAC 0.38A
120V ON 3 =BEARINGS
120V ON 4 =BYPASS

FV-378	RD	11162	
	RD	11163	
	GN	11164	

VALVE, SOLENOID, SLOW FILL
120VAC 12W
ENERGIZE=OPEN

FV-374	RD	11165	
	RD	11166	
	GN	11167	

VALVE, SOLENOID, DIRECT FILL
120VAC 12W
ENERGIZE=OPEN

FV-370	RD	11168	
	RD	11169	
	GN	11170	

VALVE, SOLENOID, STORAGE LOW
120VAC 12W
ENERGIZE=OPEN

FV-366	RD	11171	
	RD	11172	
	GN	11173	

VALVE, SOLENOID, STORGE MEDIUM
120VAC 12W
ENERGIZE=OPEN

FV-362	RD	11174	
	RD	11175	
	GN	11176	

VALVE, SOLENOID, STORAGE HIGH
120VAC 12W
ENERGIZE=OPEN

CONTROL PANEL

COMPR CONTAINER

OUT5 BU 31130 — A1 CR FV-359 A2 — 6

OUT4 BU 31131 — A1 CR FV-349 A2 — 5

OUT3 BU 31132 — A1 CR FV-339 A2 — 4

OUT2 BU 31133 — A1 CR FV-329 A2 — 3

OUT1 BU 31134 — A1 CR PCV-394 A2 — 2

OUT0 BU 31135 — A1 CR PCV-319 A2 — 1

JMPR BAR

SLOT 4
DO-921
1769-OB16P
(CONTINUED)

TB06 DCOM

20 AWG MTW

TB02 H1SW (120 VAC) (SHT 9) — 9

H1SW(120VAC) JMPR

TB02 1/2A
- 13 (GMC-0.5) 53 — RD — 31144 — CRFV-359 14 11
- 12 (GMC-0.5) 52 — RD — 31145 — CRFV-349 14 11
- 11 (GMC-0.5) 51 — RD — 31146 — CRFV-339 14 11
- 10 (GMC-0.5) 50 — RD — 31147 — CRFV-329 14 11
- 9 (GMC-0.5) 49 — RD — 31148 — CRPCV-394 14 11
- 8 (GMC-0.5) 48 — RD — 31149 — CRPCV-319 14 11

TB01 N1

TB10

18 AWG TFFN

FV-359	RD	11177	
	RD	11178	
	GN	11179	

VALVE, SOLENOID, COMPR STAGE#4 DEPRESS
120VAC 12W
ENERGIZE=OPEN

FV-349	RD	11180	
	RD	11181	
	GN	11182	

VALVE, SOLENOID, COMPR STAGE#3 DEPRESS
120VAC 12W
ENERGIZE=OPEN

FV-339	RD	11183	
	RD	11184	
	GN	11185	

VALVE, SOLENOID, COMPR STAGE#2 DEPRESS
120VAC 12W
ENERGIZE=OPEN

FV-329	RD	11186	
	RD	11187	
	GN	11188	

VALVE, SOLENOID, COMPR STAGE#1 DEPRESS
120VAC 12W
ENERGIZE=OPEN

PCV-394	RD	11189	
	RD	11190	
	GN	11191	

VALVE, SOLENOID, BLOWDOWN OUT
120VAC 12W
ENERGIZE=OPEN

PCV-319	RD	11192	
	RD	11193	
	GN	11194	

VALVE, SOLENOID COMPR INLET
120VAC 12W
ENERGIZE=OPEN

CONTROL PANEL

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5750 SHIER RINGS ROAD
DUBLIN, OHIO 43016

PROPRIETARY
9 SEPT 2013

GE Oil & Gas

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WGT. R F
ANGULAR TOLERANCE ±
UNLESS OTHERWISE SPECIFIED 1-PLACE DEC.±.060 2-PLACE DEC.±.030 3-PLACE DEC.±.010

SIMILAR TO MK.-
NAME ELECTRICAL SCHEMATIC, CONTROL (SOLENOID VALVES)
FILE NO.
MAT'L

DR TLP 07-09-12
CK
AP MKG 07-09-12

SCALE NA | SHEET 14/14 | PART NO MG109-00900 | ISSUE C

MG109-00900 sh14 REVC SCHEM ELEC control SV 090913.dwg

GE OIL & GAS NA DT-