

 <p>YORK[®]</p> <p>BY JOHNSON CONTROLS</p>	<p>PACKAGED ROOFTOP AIR CONDITIONING UNITS</p>	
<p>WIRING DIAGRAMS</p>	<p>New Release</p>	<p>Form 100.50-W3 (608)</p>

eco²

YPAL 050

YPAL 051

YPAL 060

YPAL 061

**DESIGN LEVEL F
IPU & SIMPLICITY ELITE CONTROL**



Id13271



ALLY

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INTRODUCTION

This manual contains the wiring diagrams for the YPAL 50 to 65 ton Mod E products and is intended to be used in conjunction with the unit IOM, Form 100.50-NOM3. In accordance with the statement above, the labels on the unit take precedence over these diagrams.

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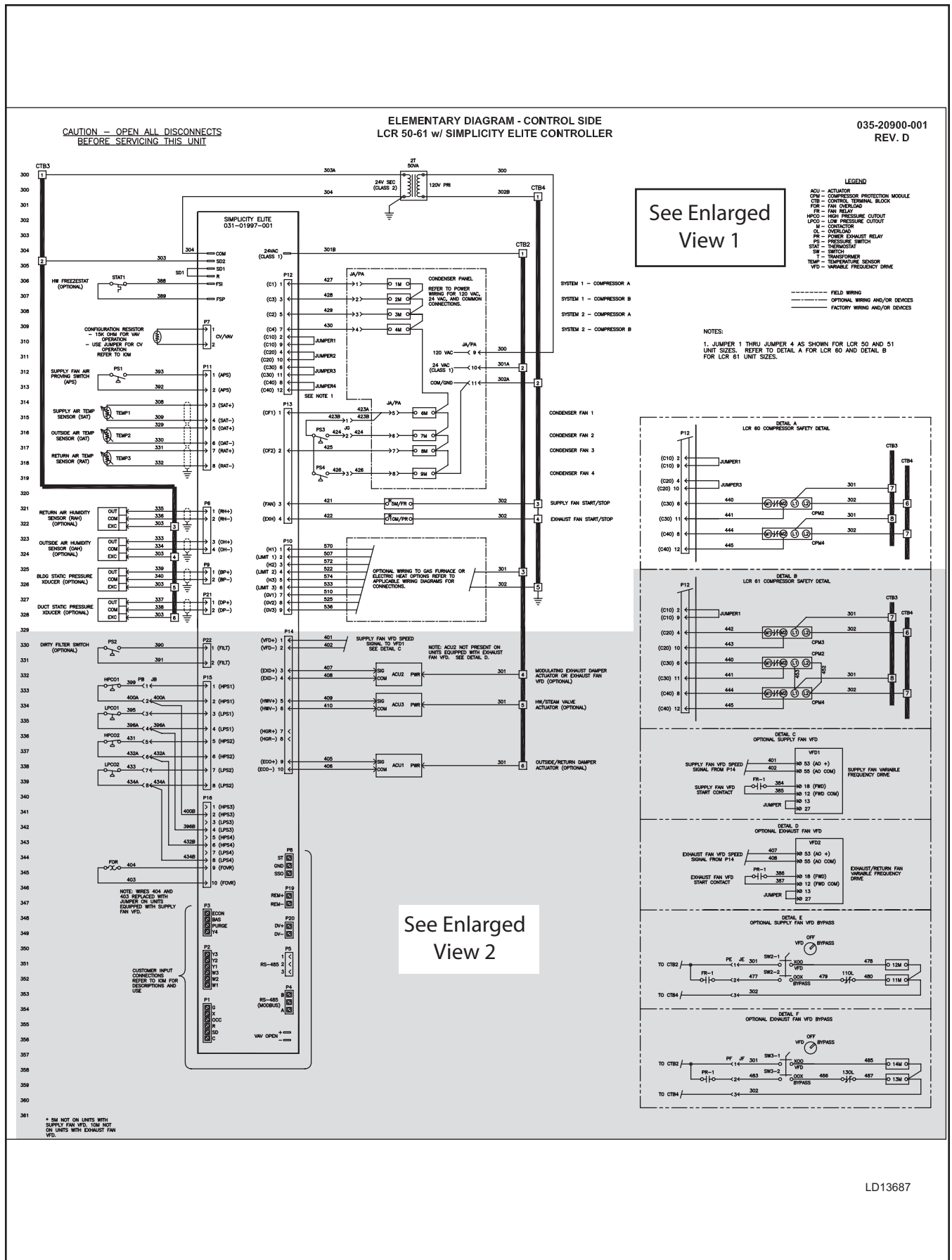
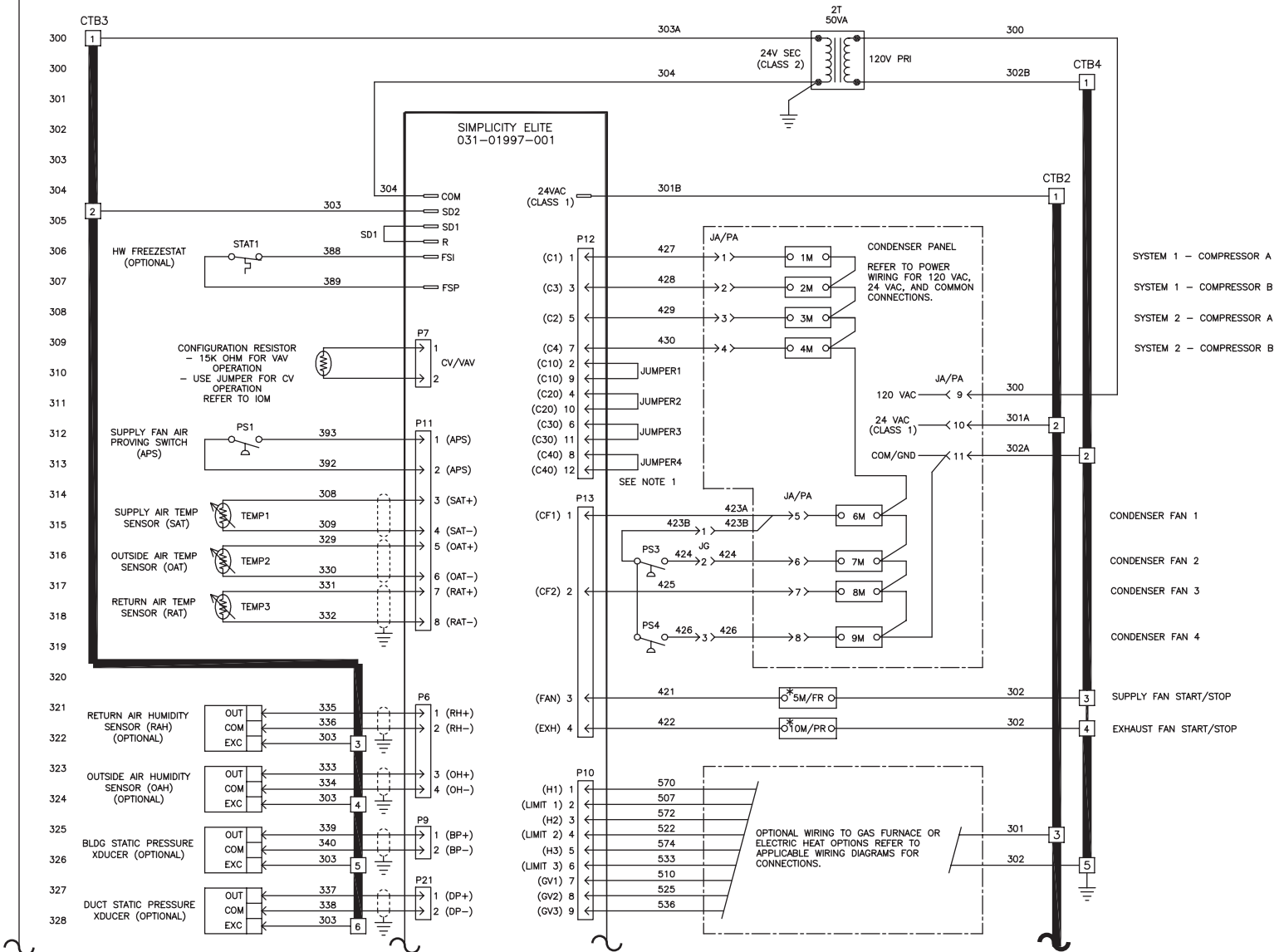


FIG. 1 - CONTROL SIDE LCR 50-61 W/ SIMPLICITY ELITE CONTROL

**CAUTION – OPEN ALL DISCONNECTS
BEFORE SERVICING THIS UNIT**

**ELEMENTARY DIAGRAM - CONTROL SIDE
LCR 50-61 w/ SIMPLICITY ELITE CONTROLLER**



See Enlarged View 2

See Enlarged View 2

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FIG. 1A – CONTROL SIDE LCR 50-61 W/ SIMPLICITY ELITE CONTROL (ENLARGED VIEW/ 1)

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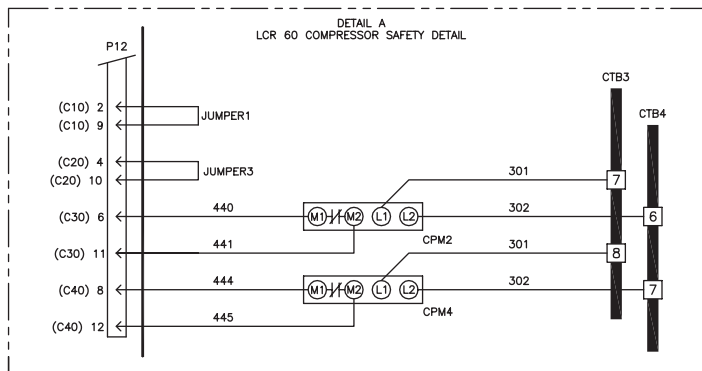
LEGEND

ACU - ACTUATOR
 CPM - COMPRESSOR PROTECTION MODULE
 CTB - CONTROL TERMINAL BLOCK
 FOR - FAN OVERLOAD
 FR - FAN RELAY
 HPCO - HIGH PRESSURE CUTOUT
 LPCO - LOW PRESSURE CUTOUT
 M - CONTACTOR
 OL - OVERLOAD
 PR - POWER EXHAUST RELAY
 PS - PRESSURE SWITCH
 STAT - THERMOSTAT
 SW - SWITCH
 T - TRANSFORMER
 TEMP - TEMPERATURE SENSOR
 VFD - VARIABLE FREQUENCY DRIVE

----- FIELD WIRING
 - - - - - OPTIONAL WIRING AND/OR DEVICES
 _____ FACTORY WIRING AND/OR DEVICES

NOTES:

1. JUMPER 1 THRU JUMPER 4 AS SHOWN FOR LCR 50 AND 51 UNIT SIZES. REFER TO DETAIL A FOR LCR 60 AND DETAIL B FOR LCR 61 UNIT SIZES.



See Enlarged View 2

See Enlarged View 1

See Enlarged View 1

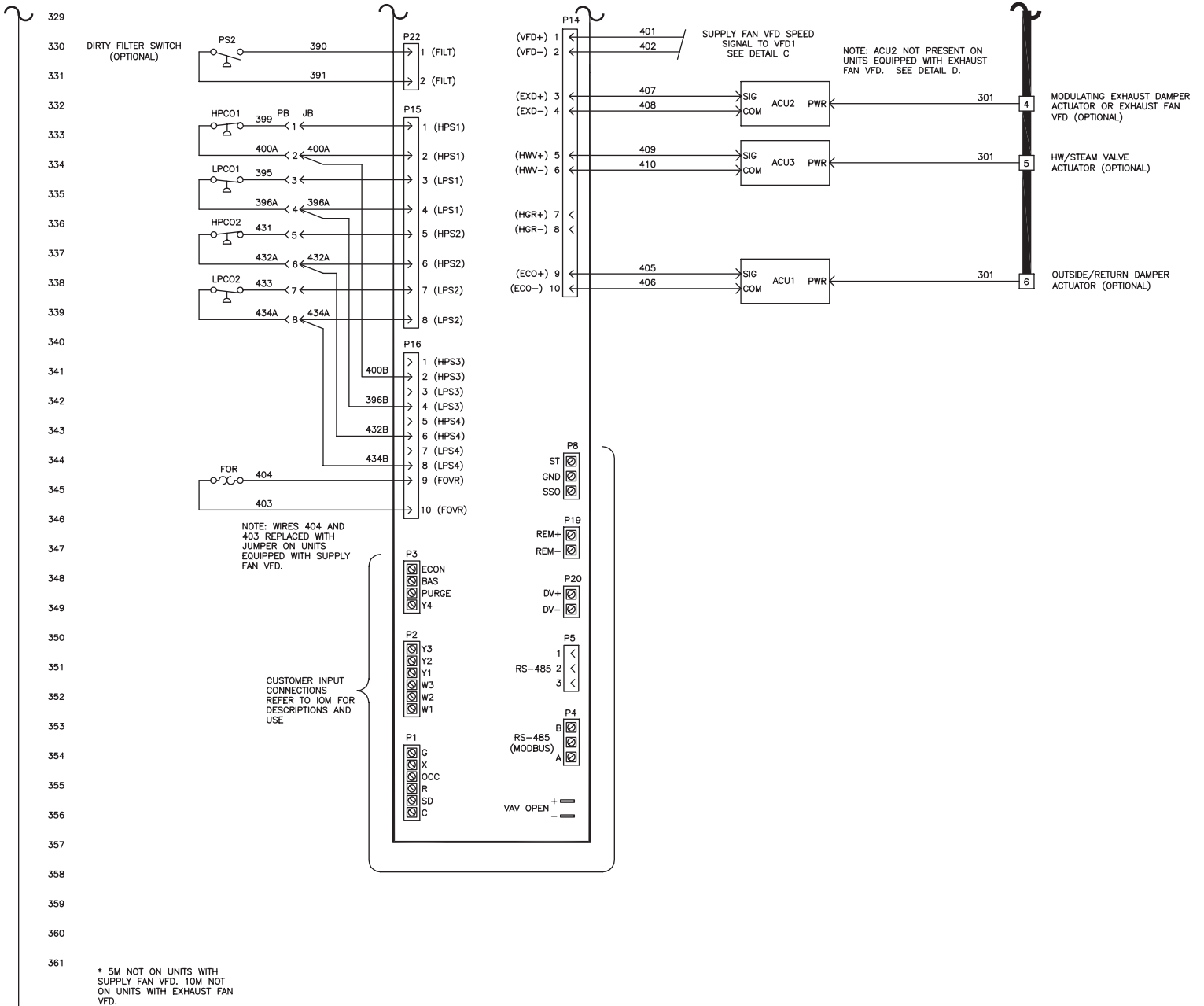
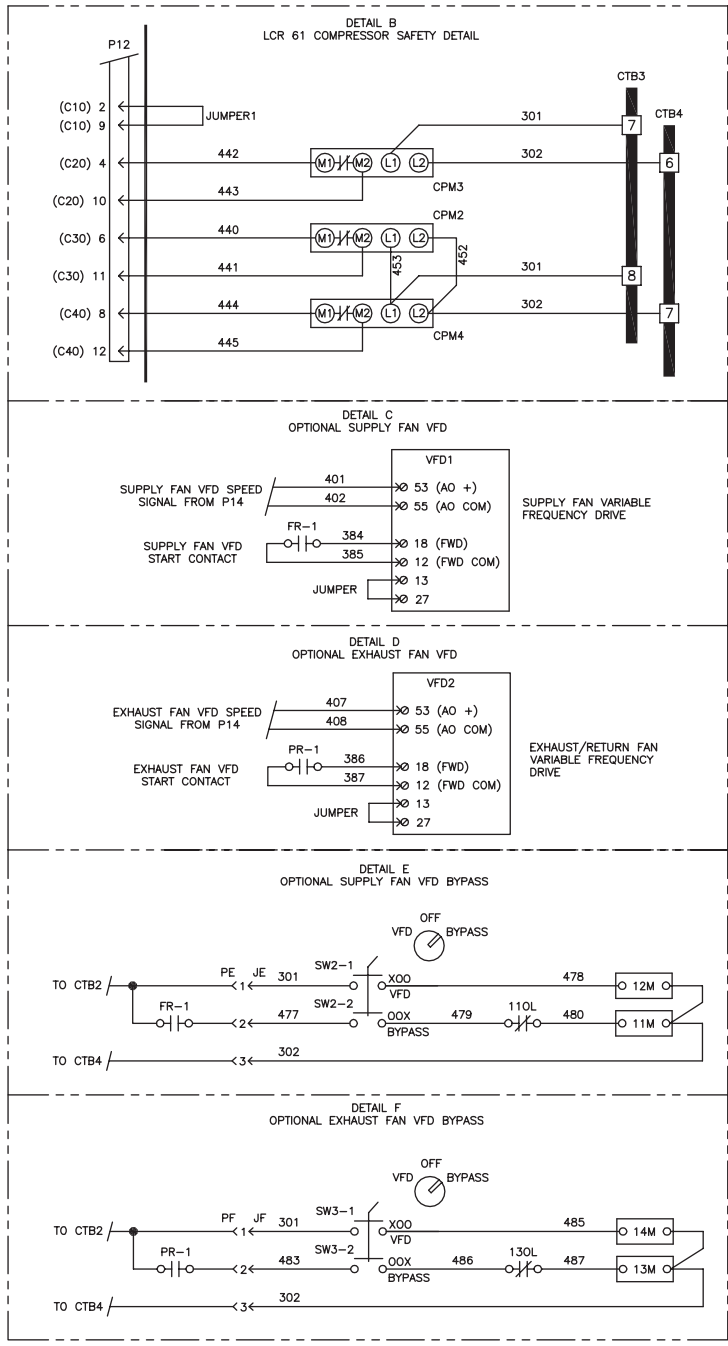


FIG. 1B – CONTROL SIDE LCR 50-61 W/ SIMPLICITY ELITE CONTROL (ENLARGED VIEW/ 2)

See Enlarged View 1



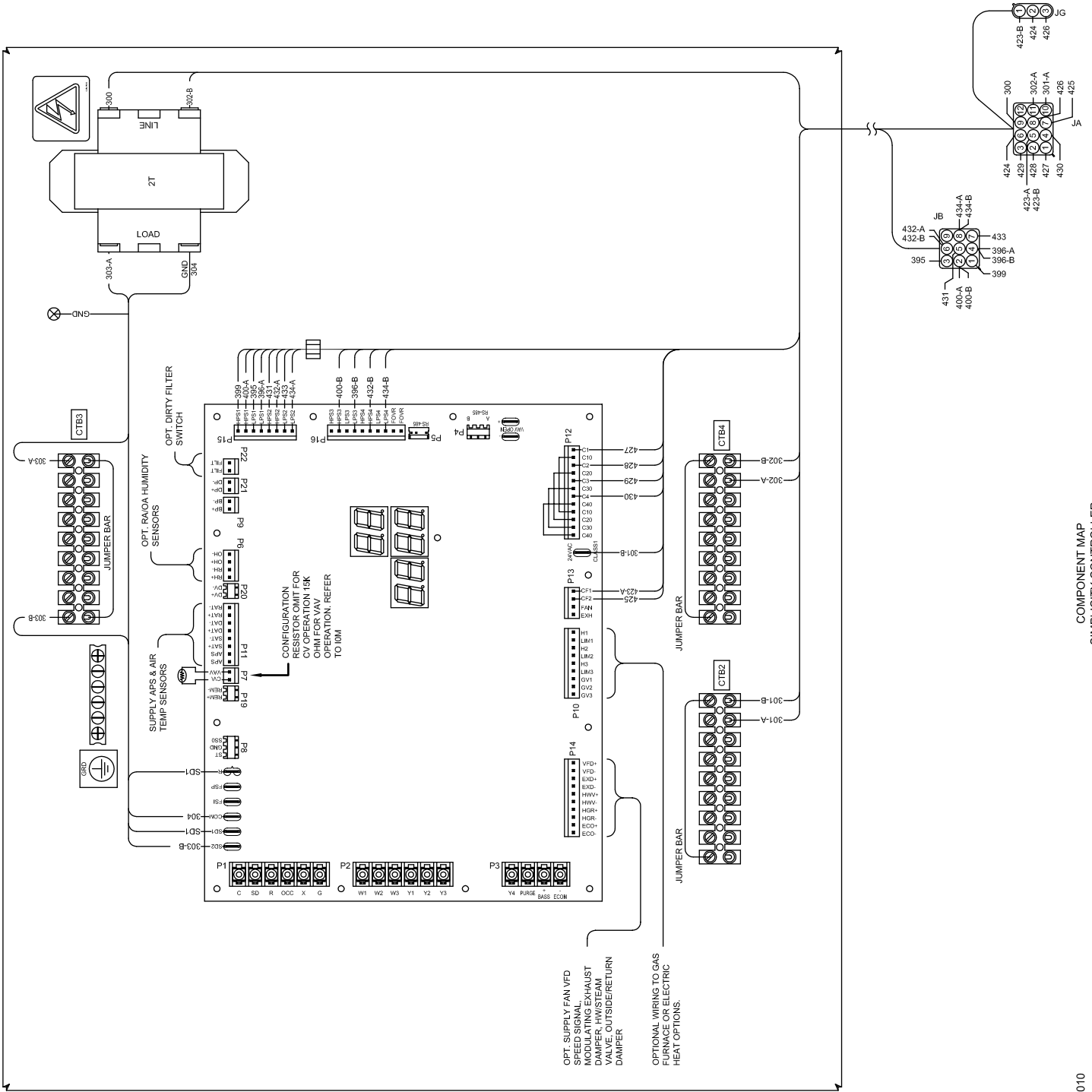


FIG. 2 – CONTROL MAP SIMPLICITY CONTROLLER

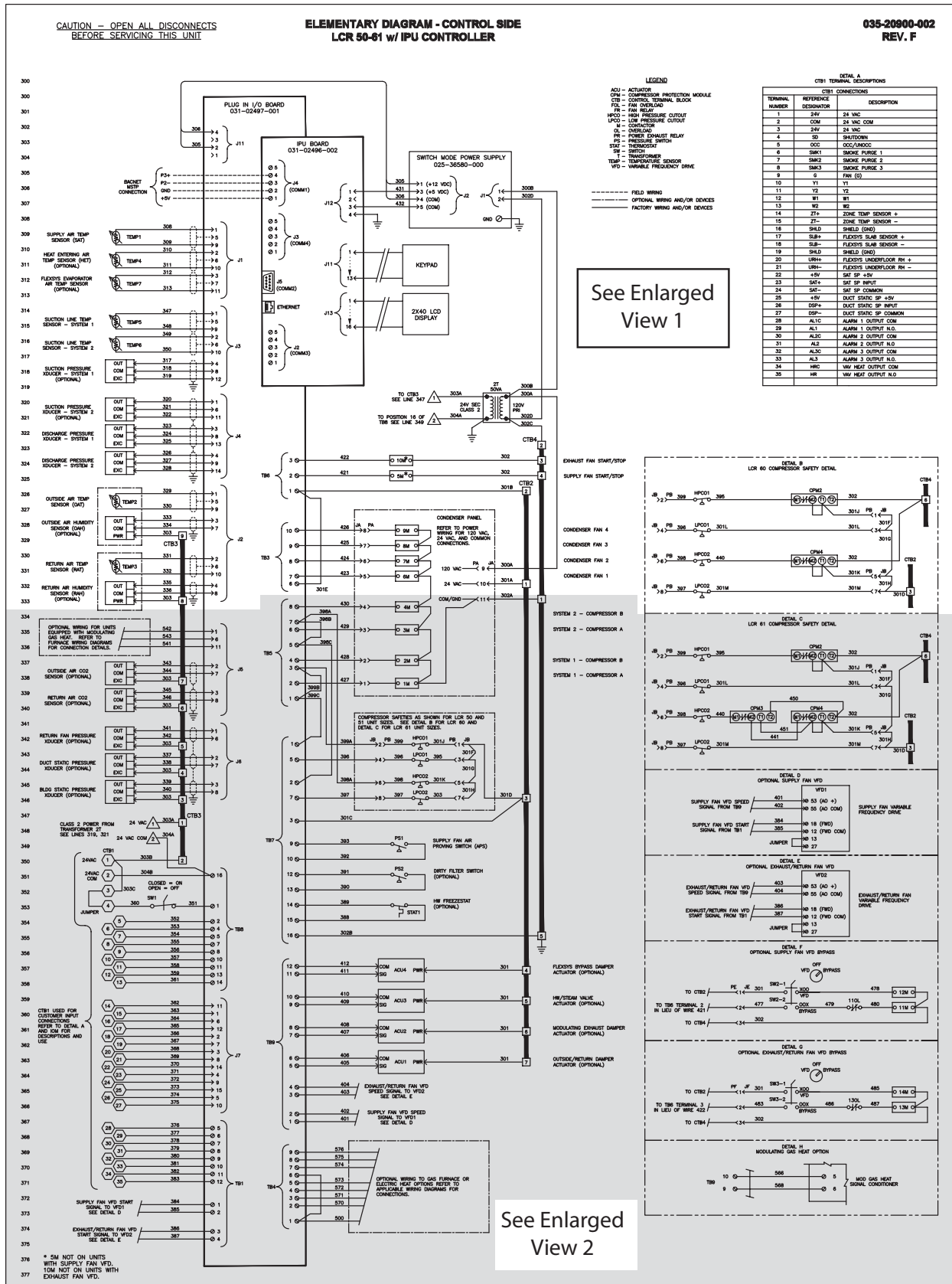
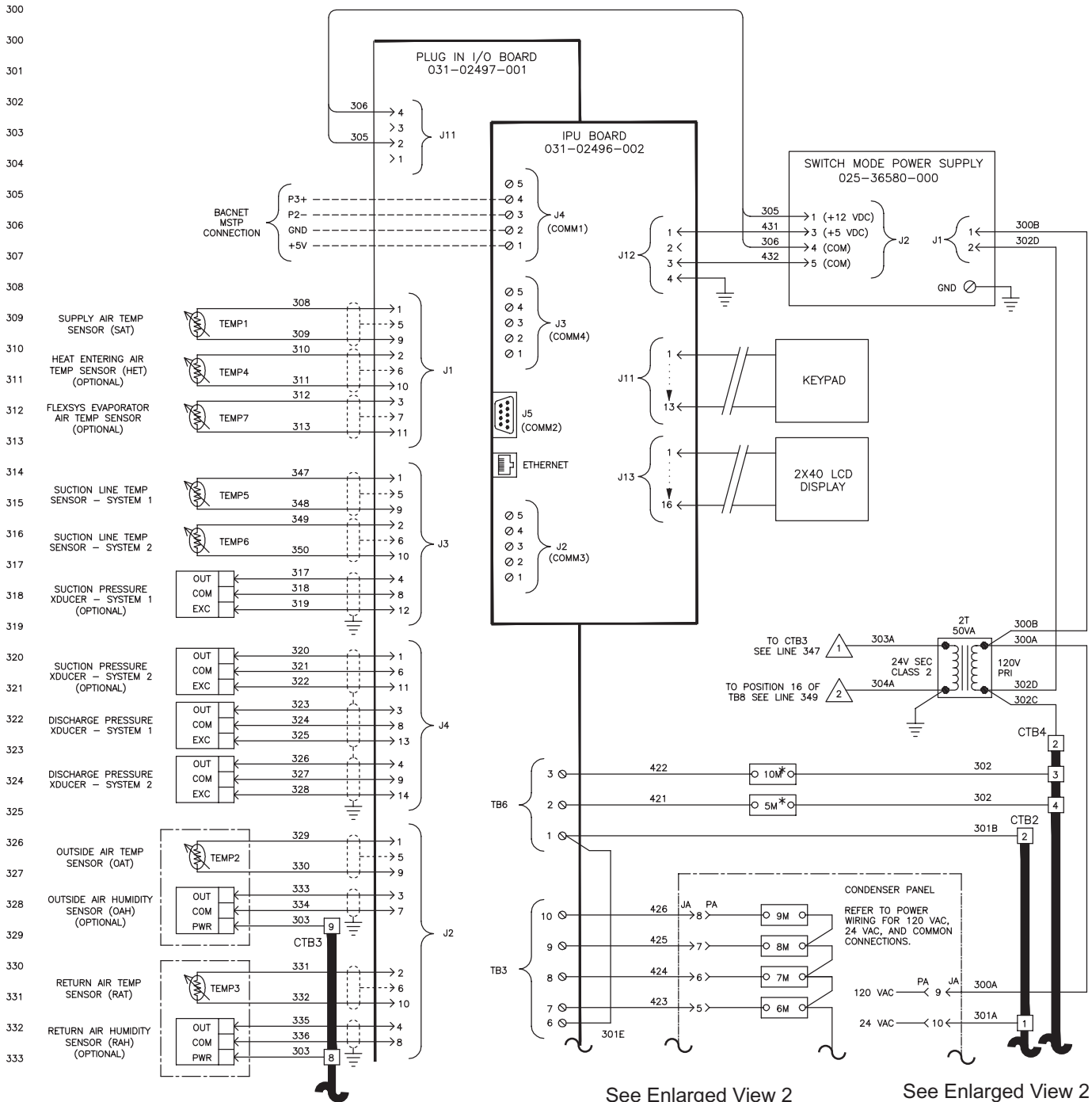


FIG. 3 - CONTROL SIDE LCR 50-61 W/ IPU CONTROLLER

**CAUTION – OPEN ALL DISCONNECTS
BEFORE SERVICING THIS UNIT**

**ELEMENTARY DIAGRAM - CONTROL SIDE
LCR 50-61 w/ IPU CONTROLLER**



See Enlarged View 2

See Enlarged View 2

See Enlarged View 2

FIG. 3A – CONTROL SIDE LCR 50-61 W/ IPU CONTROLLER (ENLARGED VIEW 1)

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LEGEND

- ACU - ACTUATOR
- CPM - COMPRESSOR PROTECTION MODULE
- CTB - CONTROL TERMINAL BLOCK
- FOL - FAN OVERLOAD
- FR - FAN RELAY
- HPCO - HIGH PRESSURE CUTOUT
- LPCO - LOW PRESSURE CUTOUT
- M - CONTACTOR
- OL - OVERLOAD
- PR - POWER EXHAUST RELAY
- PS - PRESSURE SWITCH
- STAT - THERMOSTAT
- SW - SWITCH
- T - TRANSFORMER
- TEMP - TEMPERATURE SENSOR
- VFD - VARIABLE FREQUENCY DRIVE

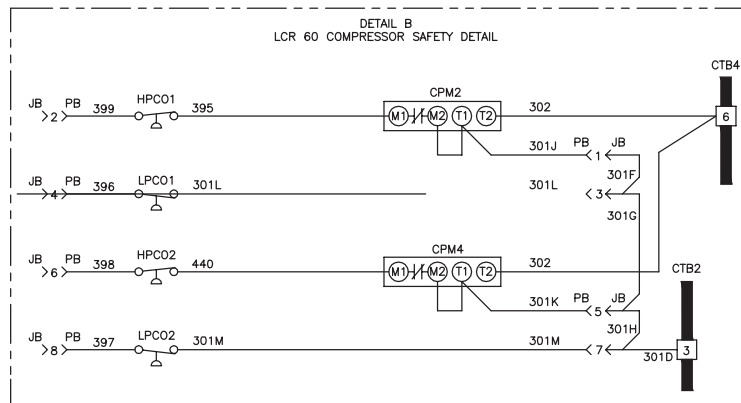
- FIELD WIRING
- OPTIONAL WIRING AND/OR DEVICES
- FACTORY WIRING AND/OR DEVICES

DETAIL A
CTB1 TERMINAL DESCRIPTIONS

CTB1 CONNECTIONS		
TERMINAL NUMBER	REFERENCE DESIGNATOR	DESCRIPTION
1	24V	24 VAC
2	COM	24 VAC COM
3	24V	24 VAC
4	SD	SHUTDOWN
5	OCC	OCC/UNOCC
6	SMK1	SMOKE PURGE 1
7	SMK2	SMOKE PURGE 2
8	SMK3	SMOKE PURGE 3
9	G	FAN (G)
10	Y1	Y1
11	Y2	Y2
12	W1	W1
13	W2	W2
14	ZT+	ZONE TEMP SENSOR +
15	ZT-	ZONE TEMP SENSOR -
16	SHLD	SHIELD (GND)
17	SLB+	FLEXSYS SLAB SENSOR +
18	SLB-	FLEXSYS SLAB SENSOR -
19	SHLD	SHIELD (GND)
20	URH+	FLEXSYS UNDERFLOOR RH +
21	URH-	FLEXSYS UNDERFLOOR RH -
22	+5V	SAT SP +5V
23	SAT+	SAT SP INPUT
24	SAT-	SAT SP COMMON
25	+5V	DUCT STATIC SP +5V
26	DSP+	DUCT STATIC SP INPUT
27	DSP-	DUCT STATIC SP COMMON
28	AL1C	ALARM 1 OUTPUT COM
29	AL1	ALARM 1 OUTPUT N.O.
30	AL2C	ALARM 2 OUTPUT COM
31	AL2	ALARM 2 OUTPUT N.O.
32	AL3C	ALARM 3 OUTPUT COM
33	AL3	ALARM 3 OUTPUT N.O.
34	HRC	VAV HEAT OUTPUT COM
35	HR	VAV HEAT OUTPUT N.O.

EXHAUST FAN START/STOP
SUPPLY FAN START/STOP

CONDENSER FAN 4
CONDENSER FAN 3
CONDENSER FAN 2
CONDENSER FAN 1



See Enlarged
View 2

See Enlarged View 1

See Enlarged View 1

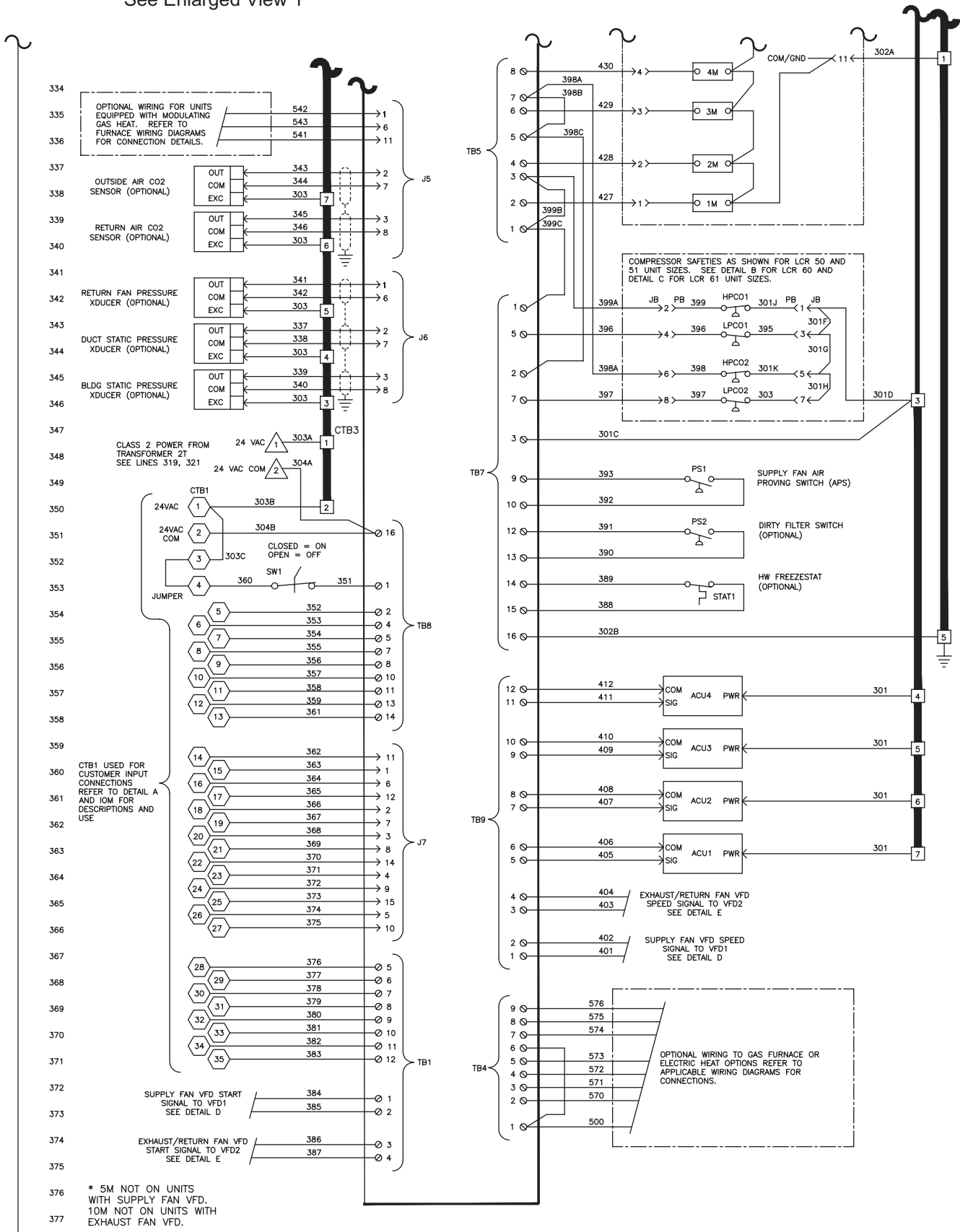


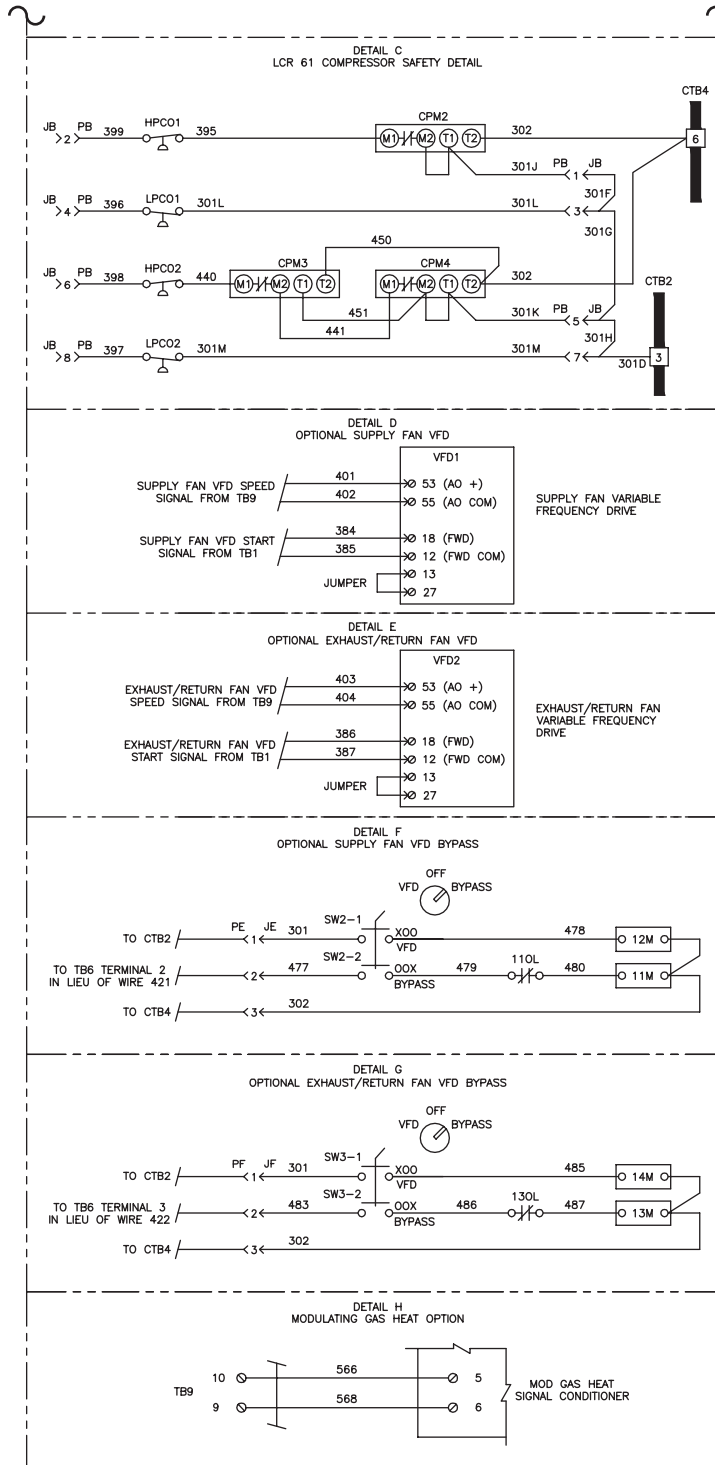
FIG. 3B – CONTROL SIDE LCR 50-61 W/ IPU CONTROLLER (ENLARGED VIEW 2)

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See Enlarged View 1

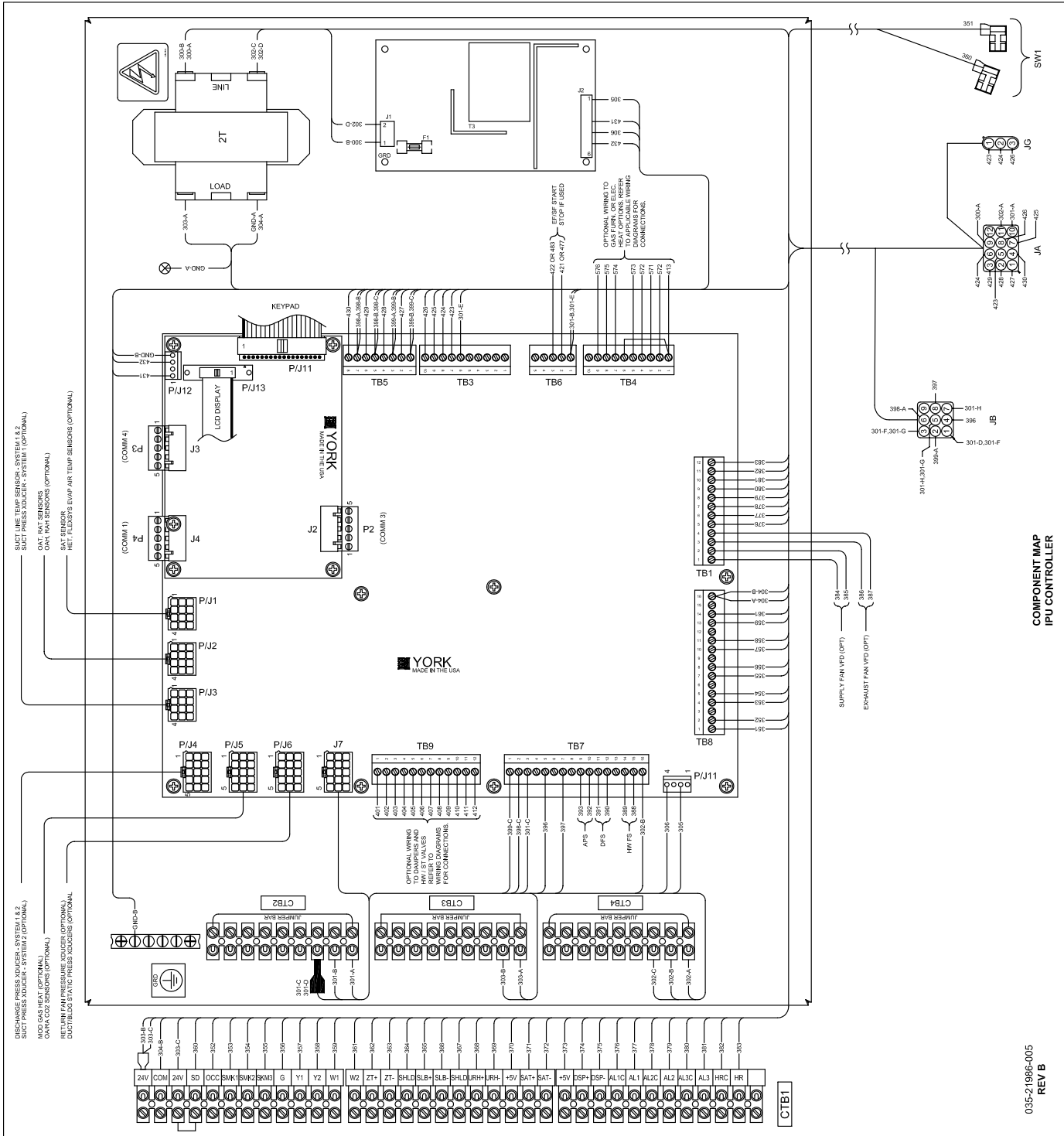
See Enlarged View 1

SYSTEM 2 - COMPRESSOR B
 SYSTEM 2 - COMPRESSOR A
 SYSTEM 1 - COMPRESSOR B
 SYSTEM 1 - COMPRESSOR A



FLEXSYS BYPASS DAMPER ACTUATOR (OPTIONAL)
 HW/STEAM VALVE ACTUATOR (OPTIONAL)
 MODULATING EXHAUST DAMPER ACTUATOR (OPTIONAL)
 OUTSIDE/RETURN DAMPER ACTUATOR (OPTIONAL)

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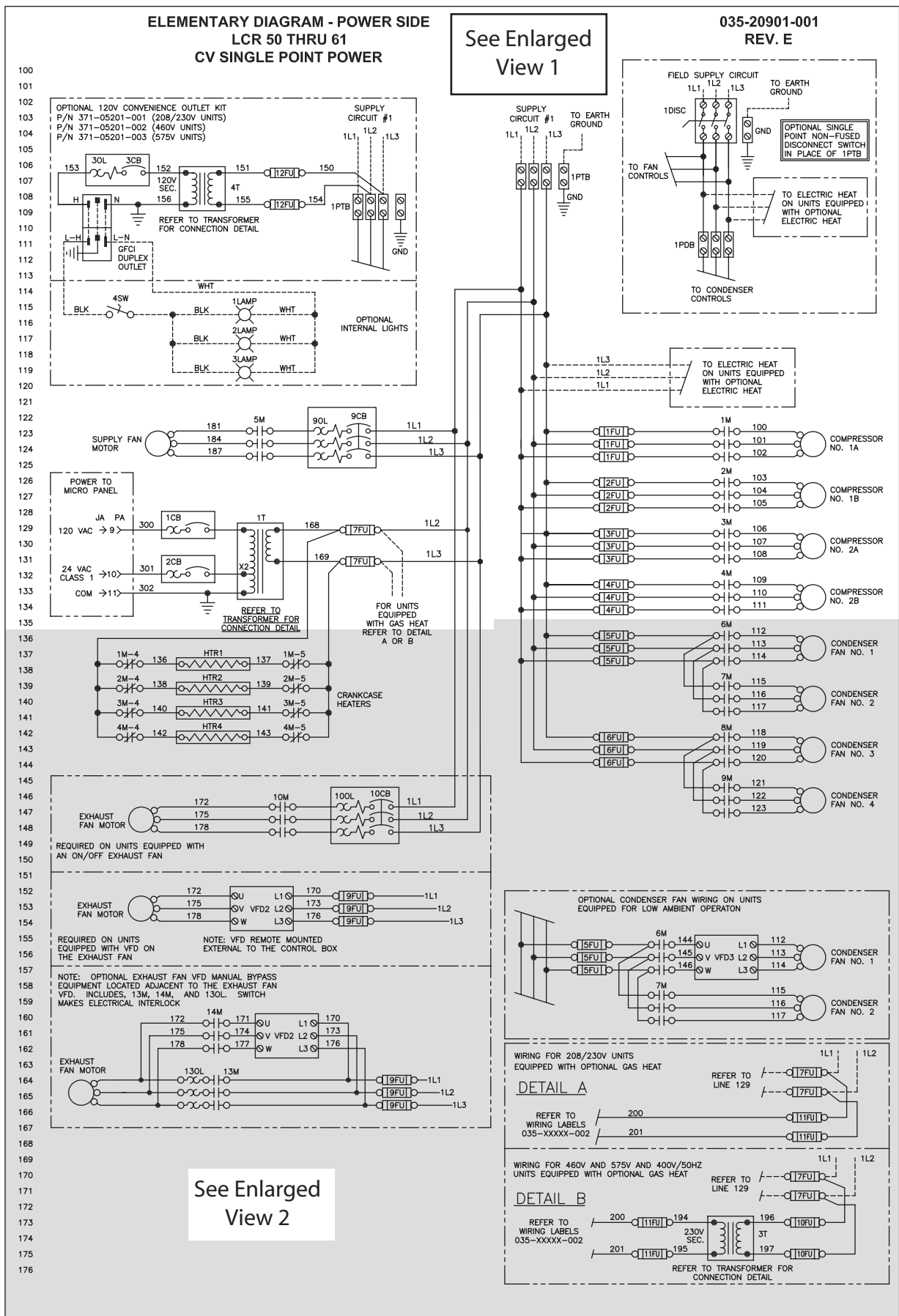
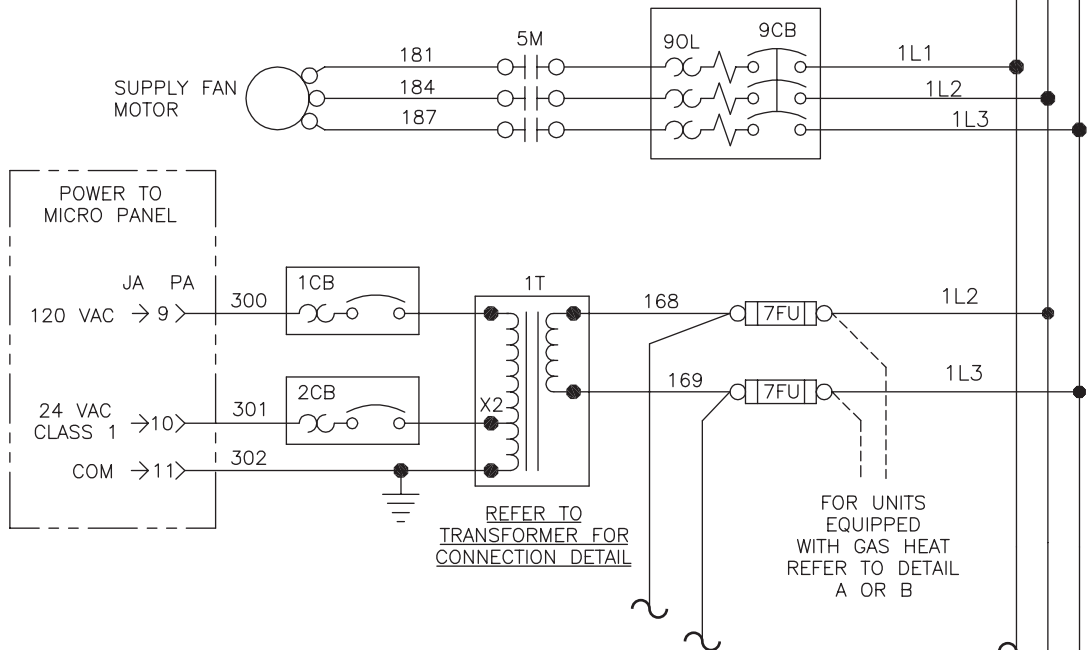
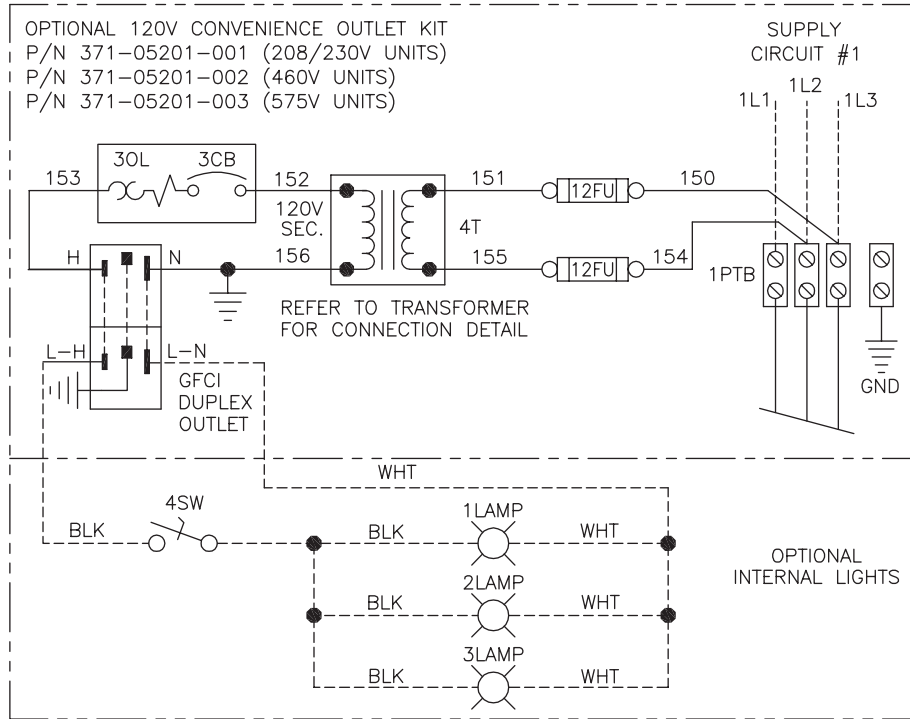


FIG. 5 – POWER SIDE LCR 50 THRU 61 CV SINGLE POINT POWER

ELEMENTARY DIAGRAM - POWER SIDE LCR 50 THRU 61 CV SINGLE POINT POWER

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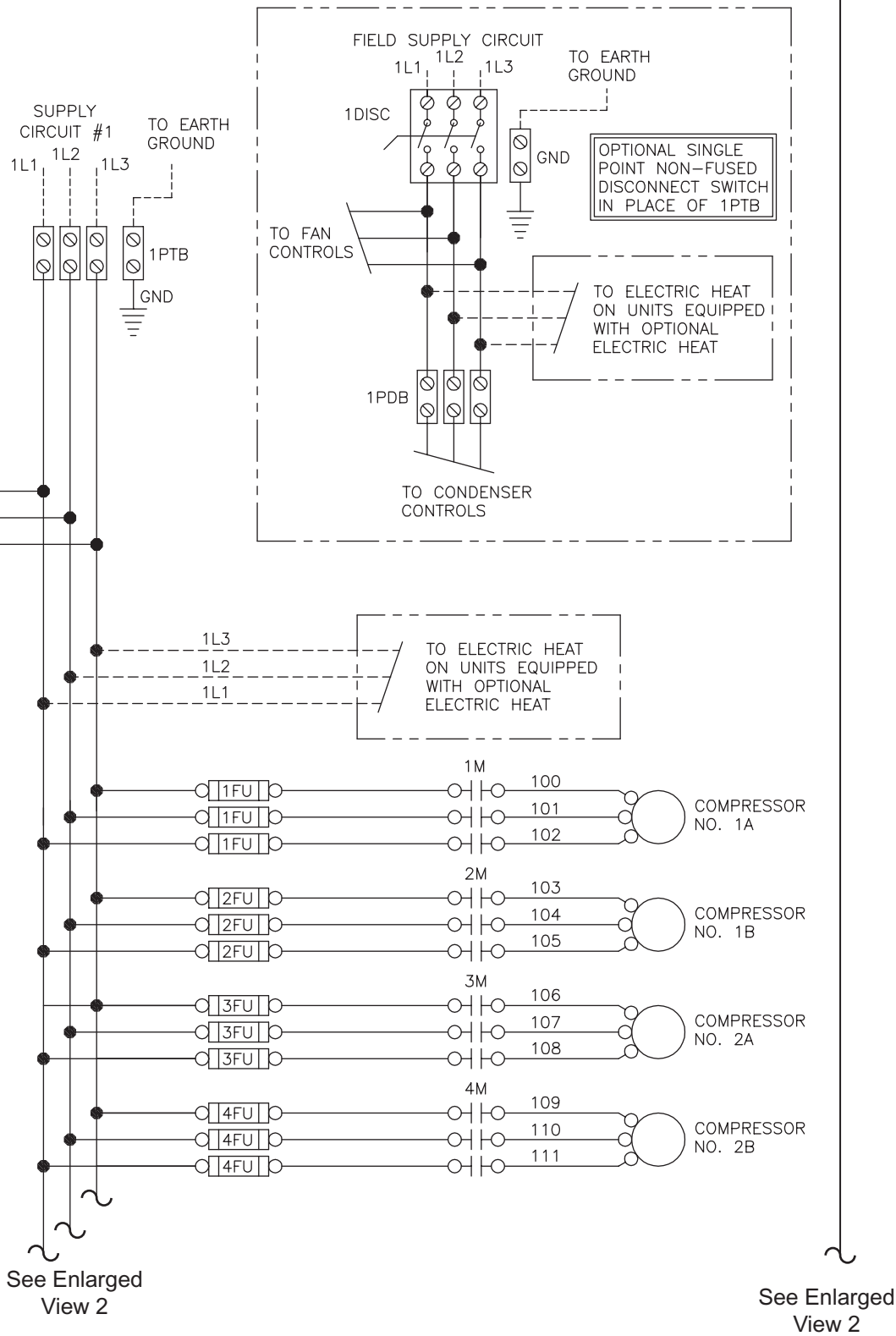
See Enlarged View 2

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FIG. 5A – POWER SIDE LCR 50 THRU 61 CV SINGLE POINT POWER (ENLARGED VIEW 1)

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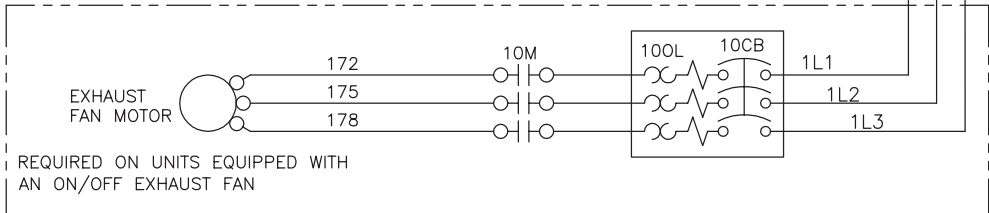
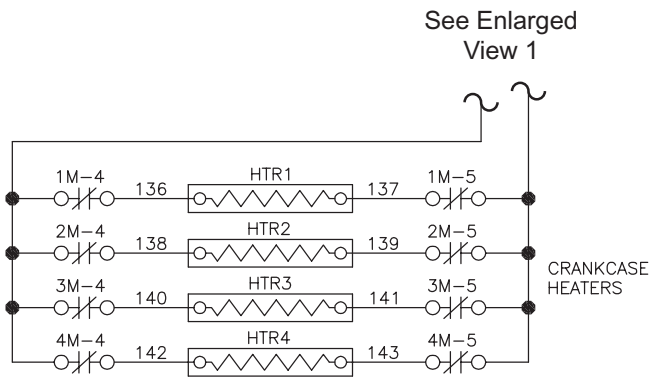


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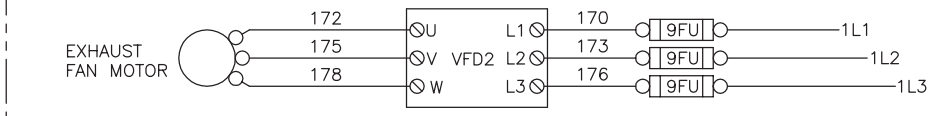
See Enlarged View 1

See Enlarged View 1

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REQUIRED ON UNITS EQUIPPED WITH AN ON/OFF EXHAUST FAN



REQUIRED ON UNITS EQUIPPED WITH VFD ON THE EXHAUST FAN

NOTE: OPTIONAL EXHAUST FAN VFD MANUAL BYPASS EQUIPMENT LOCATED ADJACENT TO THE EXHAUST FAN VFD. INCLUDES, 13M, 14M, AND 130L. SWITCH MAKES ELECTRICAL INTERLOCK

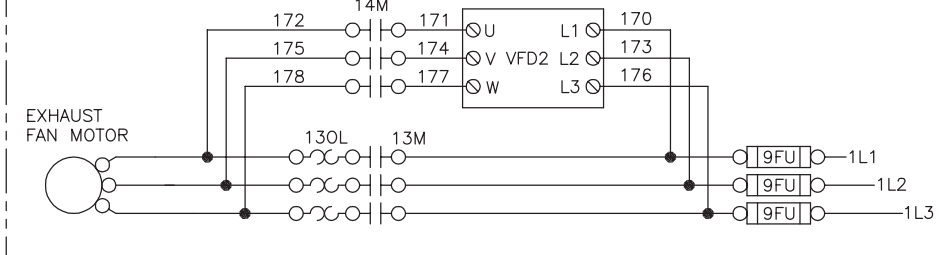
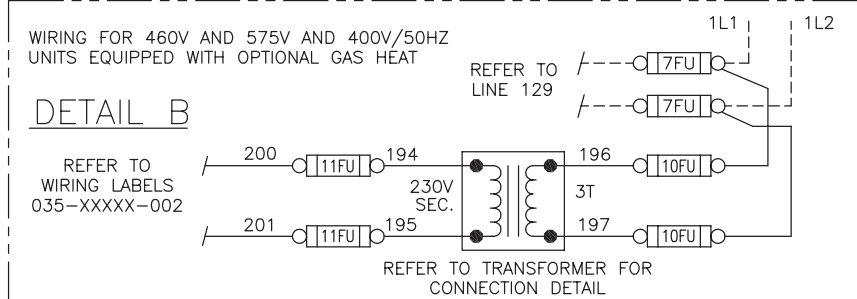
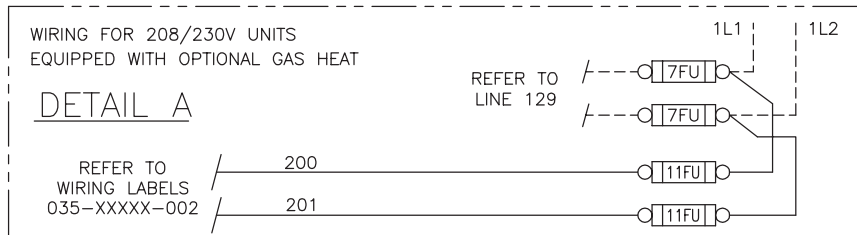
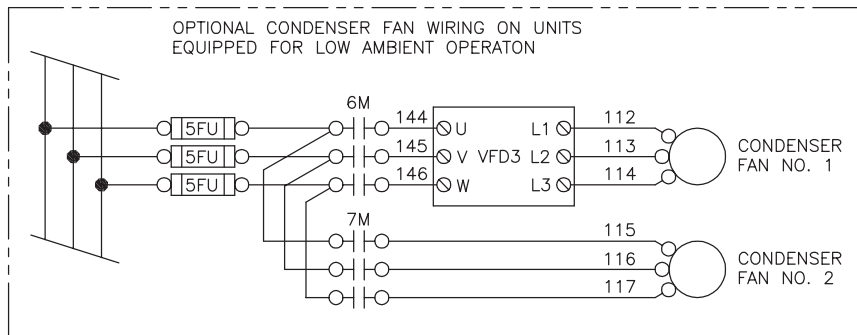
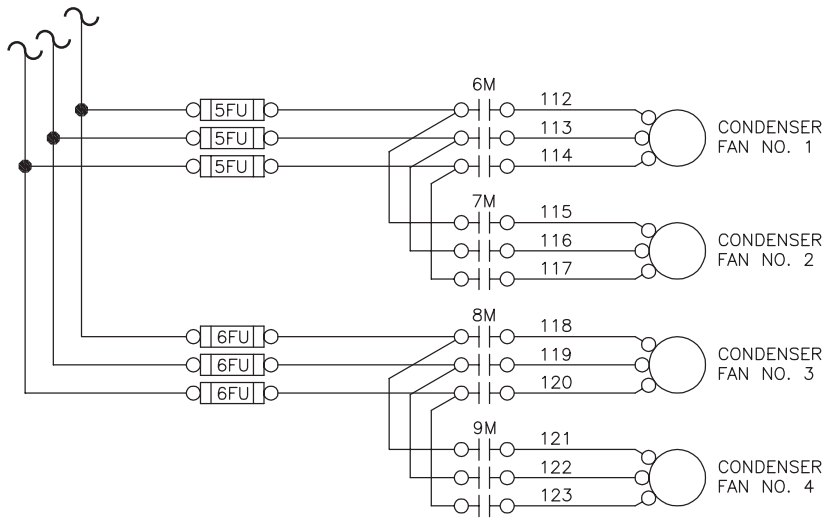


FIG. 5B – POWER SIDE LCR 50 THRU 61 CV SINGLE POINT POWER (ENLARGED VIEW 2)

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See Enlarged
View 1

See Enlarged
View 1



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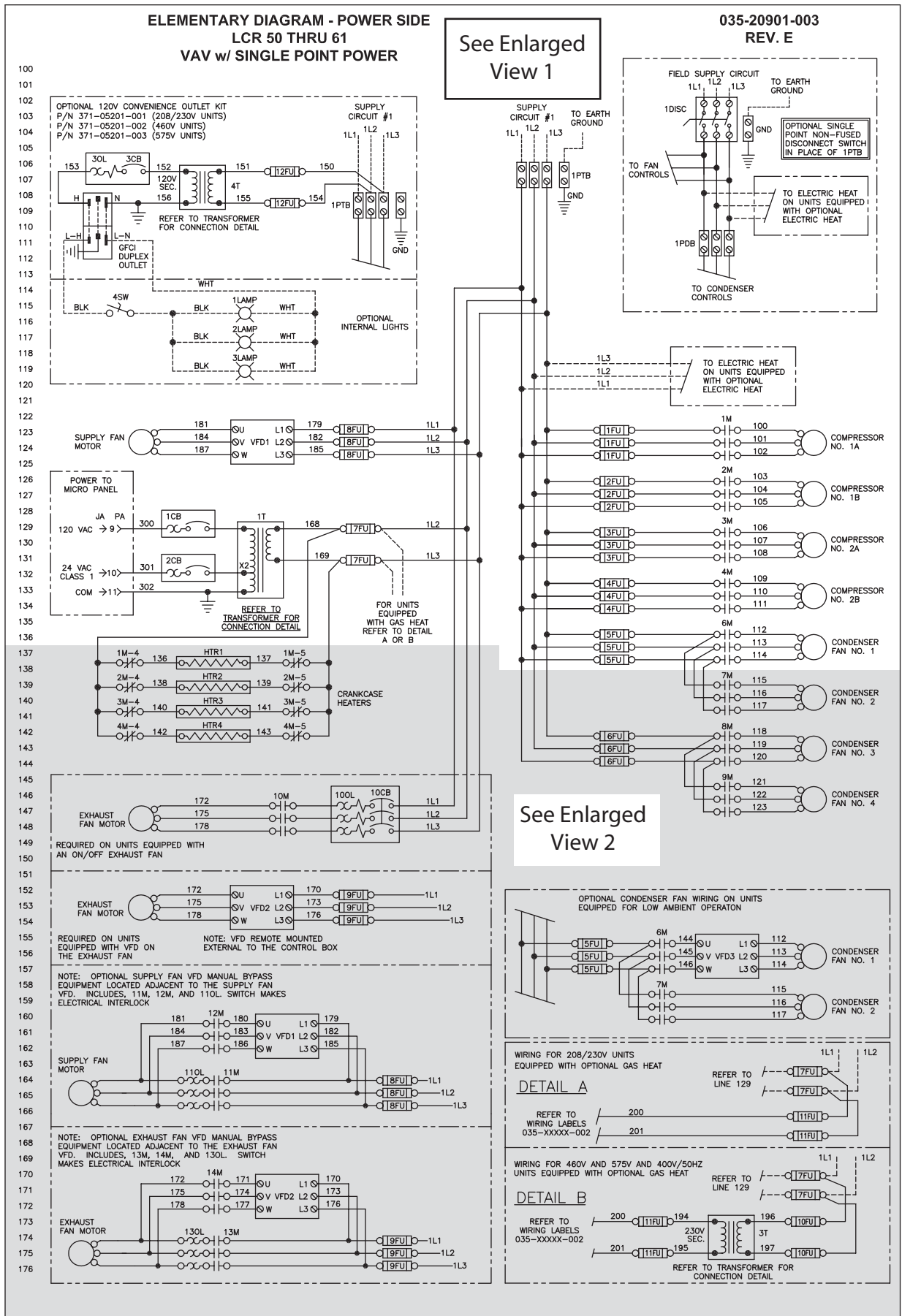
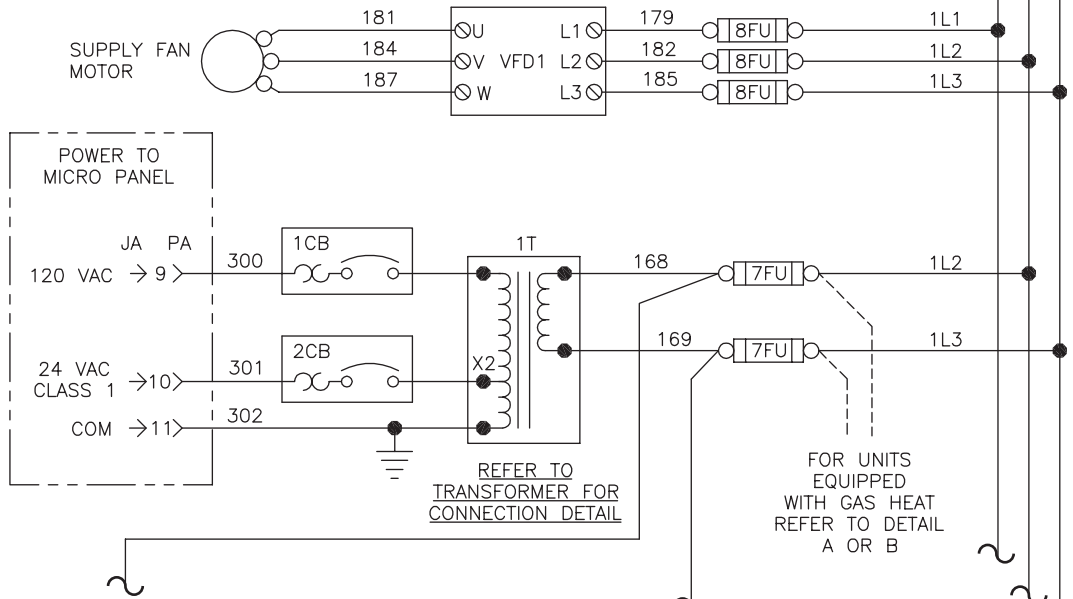
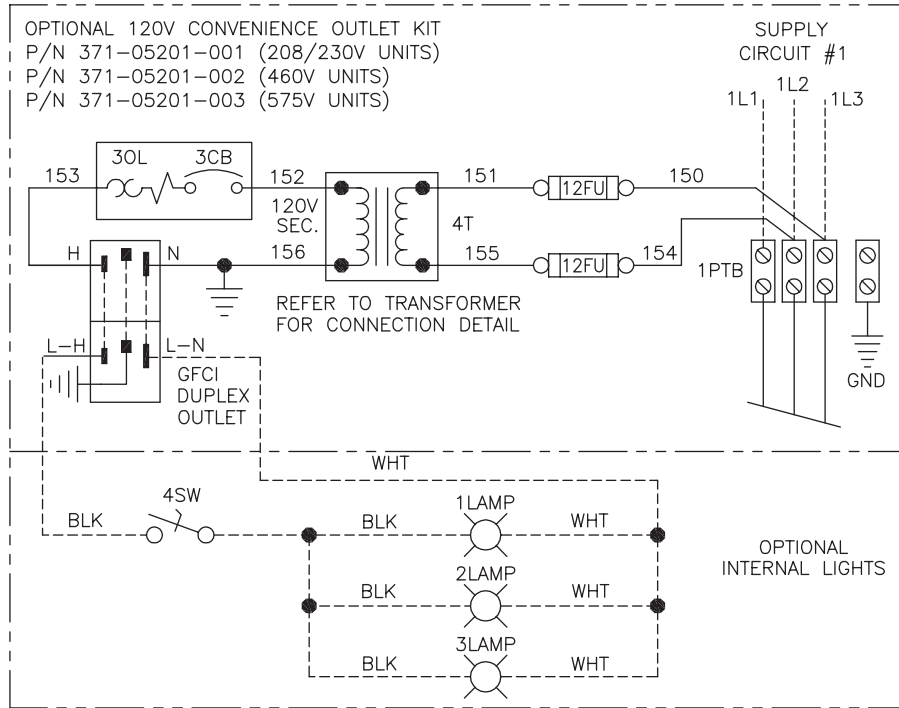


FIG. 6 – POWER SIDE LCR 50 THRU 61 VAV W/ SINGLE POINT POWER

ELEMENTARY DIAGRAM - POWER SIDE LCR 50 THRU 61 VAV w/ SINGLE POINT POWER

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See Enlarged View 2

See Enlarged View 2

See Enlarged View 2

LD13701

FIG. 6A – POWER SIDE LCR 50 THRU 61 VAV W/ SINGLE POINT POWER (ENLARGED VIEW 1)

See Enlarged View 1

See Enlarged View 1

See Enlarged View 1

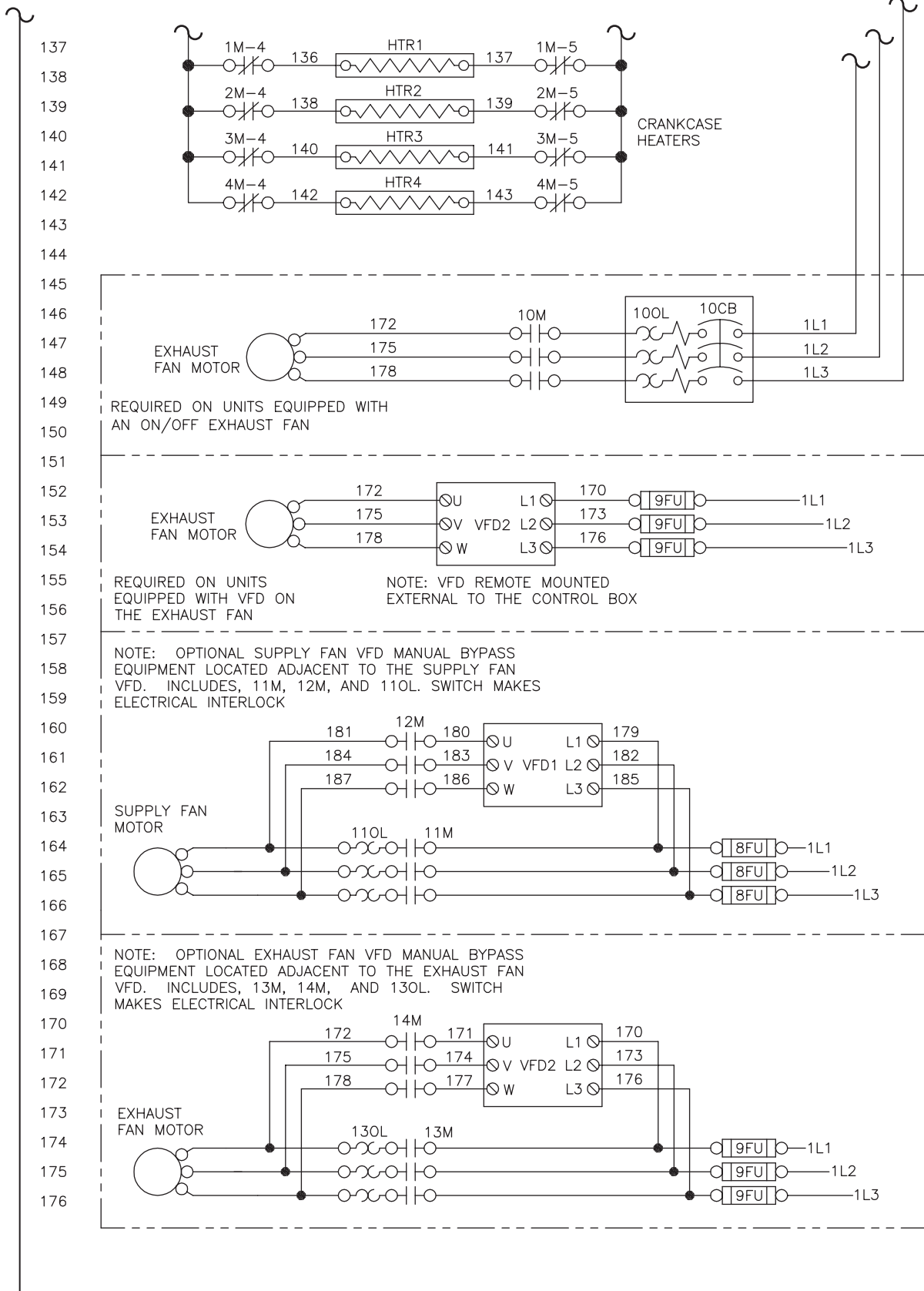
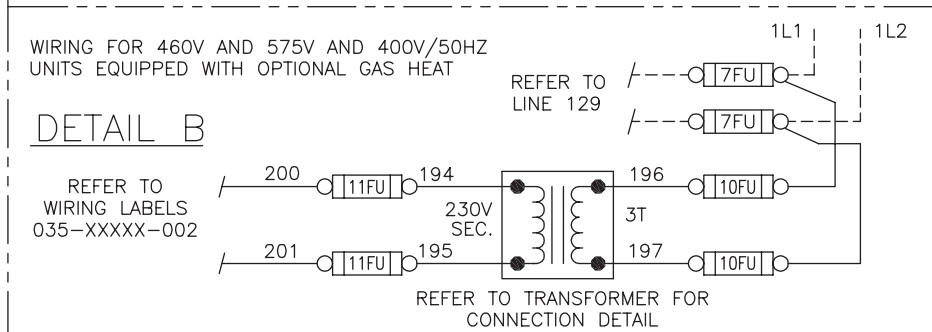
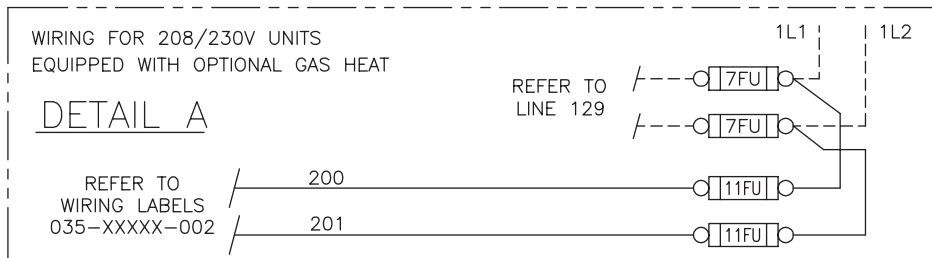
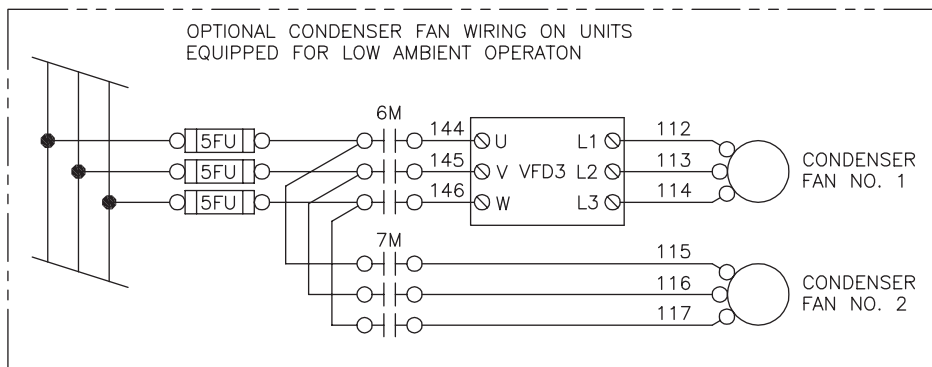
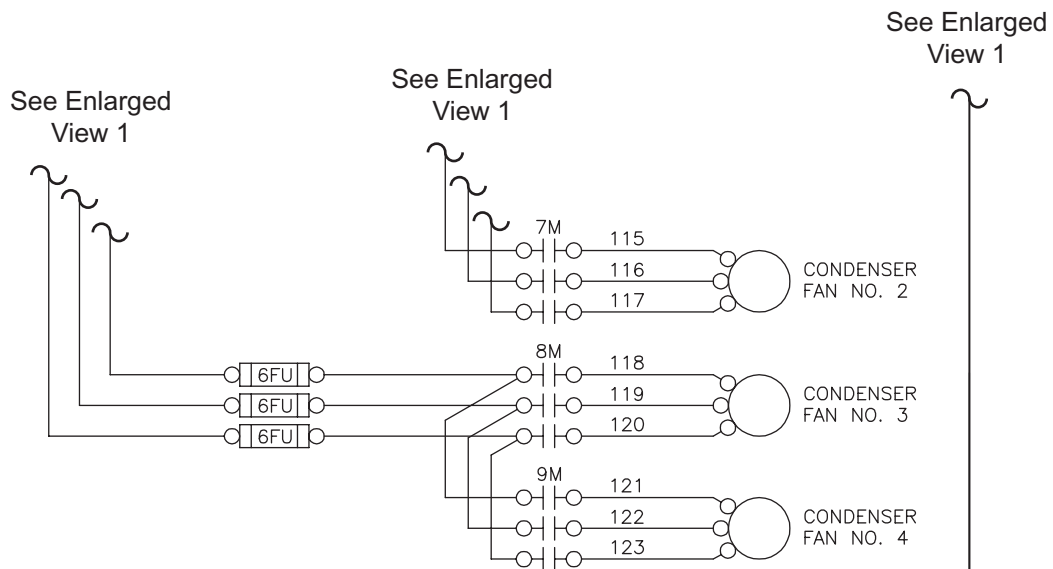


FIG. 6B – POWER SIDE LCR 50 THRU 61 VAV W/ SINGLE POINT POWER (ENLARGED VIEW 2)

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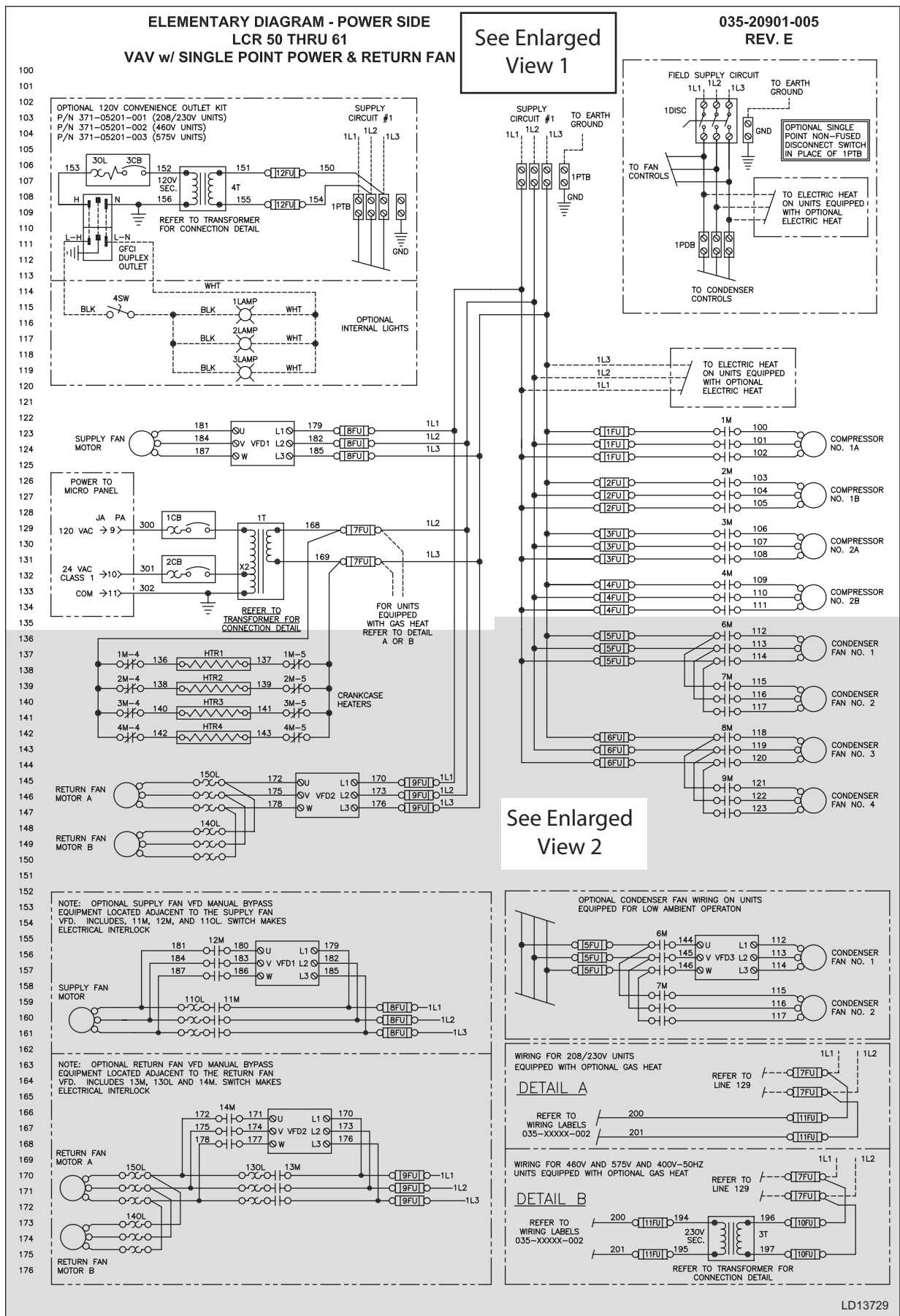
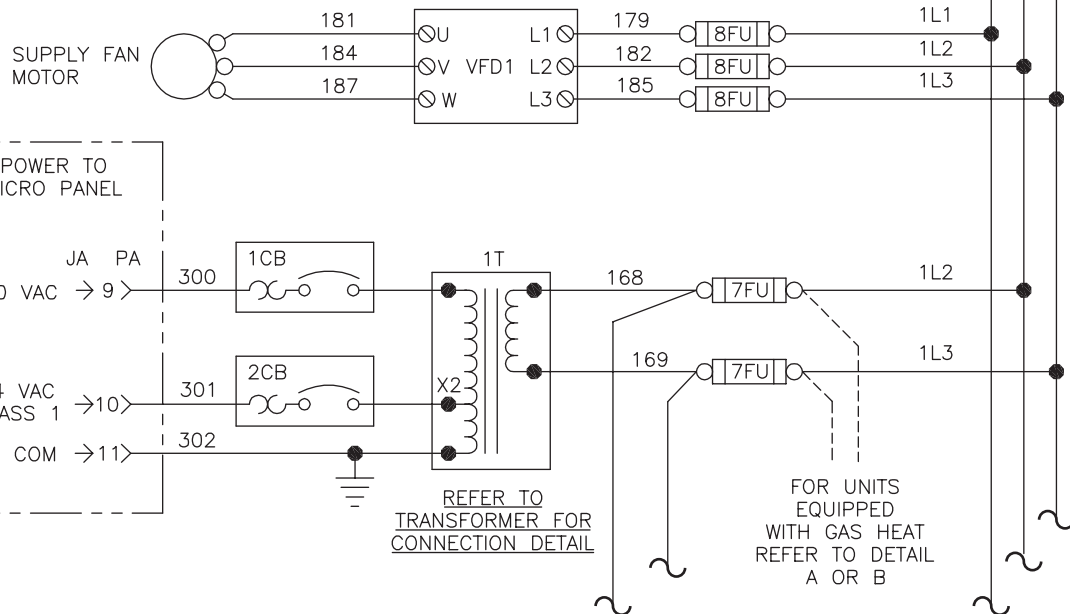
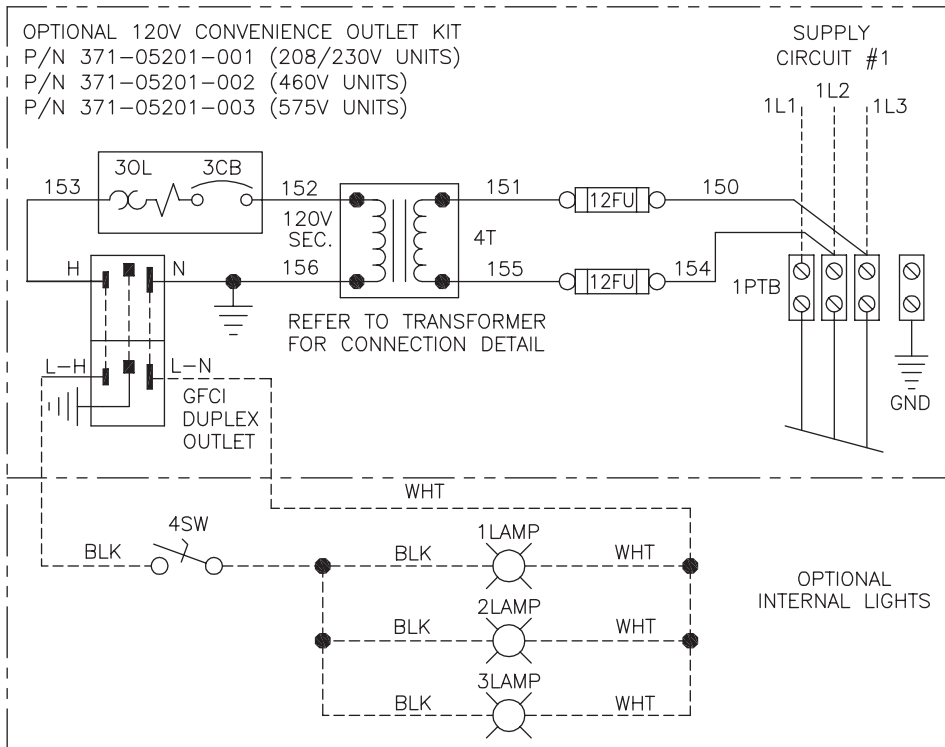


FIG. 7 – POWER SIDE LCR 50 THRU 61 VAV W/ SINGLE POINT POWER & RETURN FAN

ELEMENTARY DIAGRAM - POWER SIDE LCR 50 THRU 61 VAV w/ SINGLE POINT POWER & RETURN FAN

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See Enlarged View 2

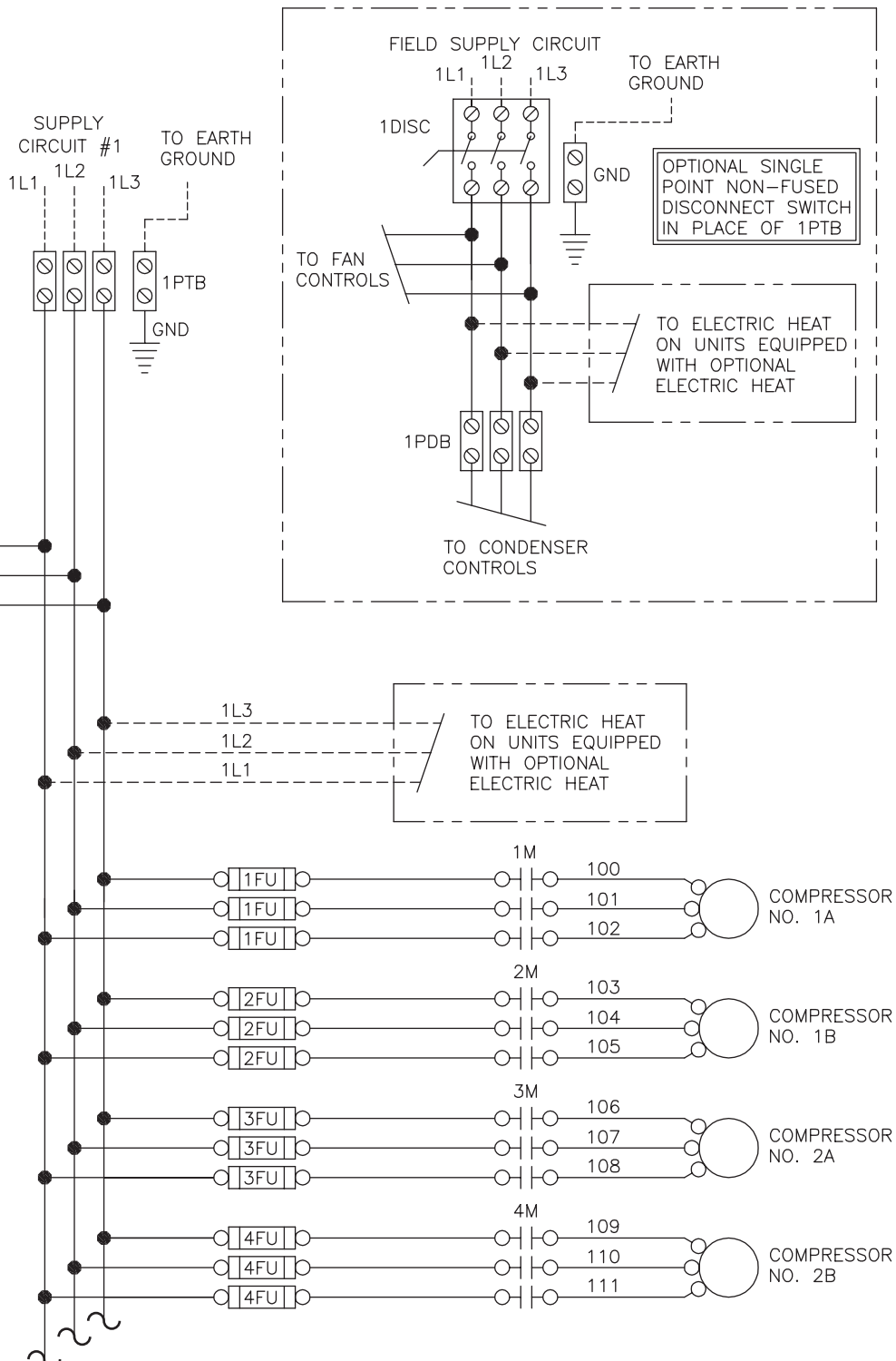
See Enlarged View 2

See Enlarged View 2

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FIG. 7A – POWER SIDE LCR 50 THRU 61 VAV w/ SINGLE POINT POWER & RETURN FAN (ENLARGED VIEW 1)

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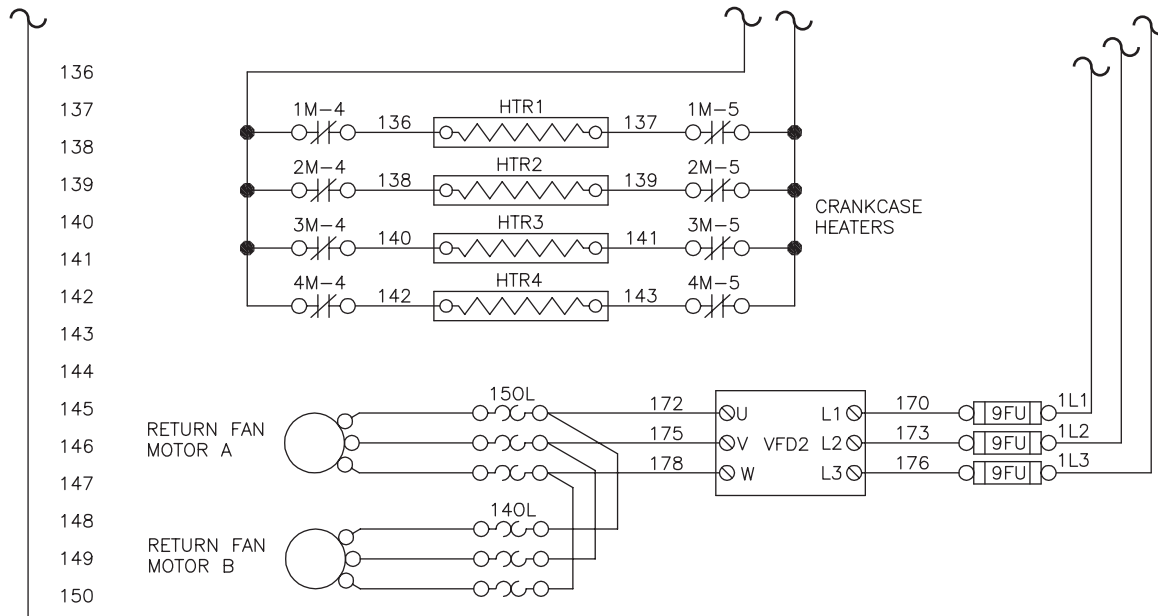
See Enlarged
View 2

See Enlarged
View 2

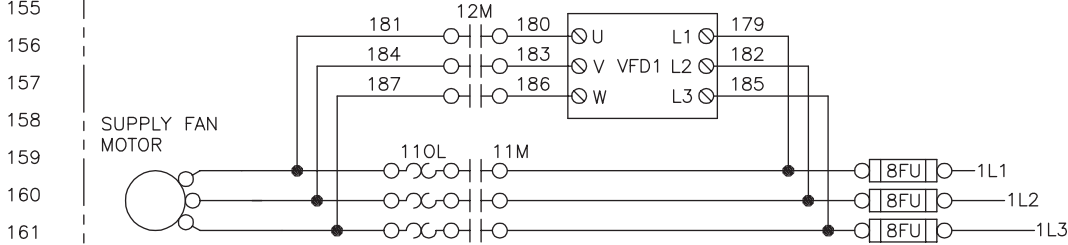
See Enlarged View 1

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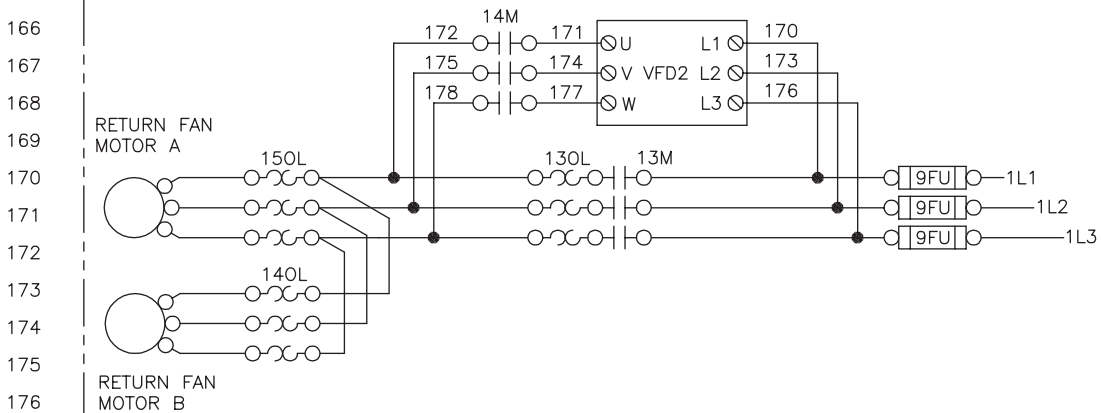
See Enlarged View 1



NOTE: OPTIONAL SUPPLY FAN VFD MANUAL BYPASS EQUIPMENT LOCATED ADJACENT TO THE SUPPLY FAN VFD. INCLUDES, 11M, 12M, AND 110L. SWITCH MAKES ELECTRICAL INTERLOCK



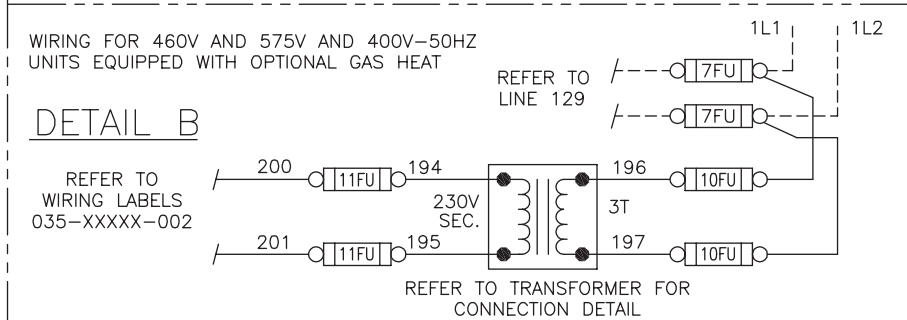
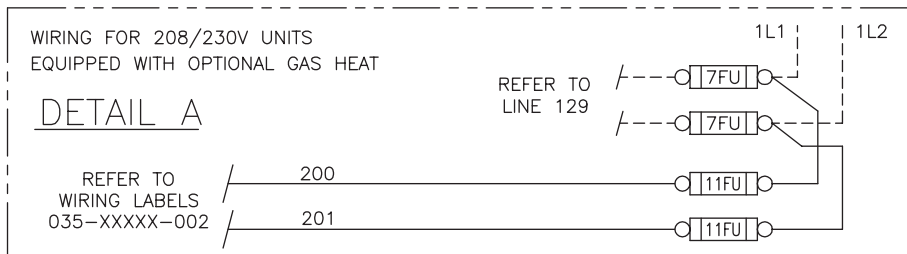
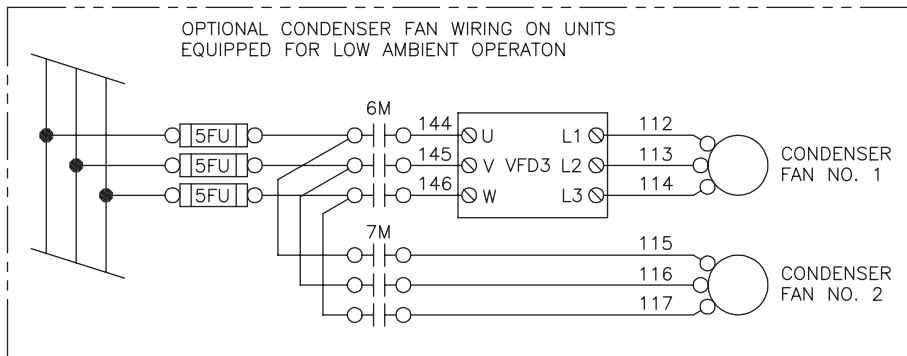
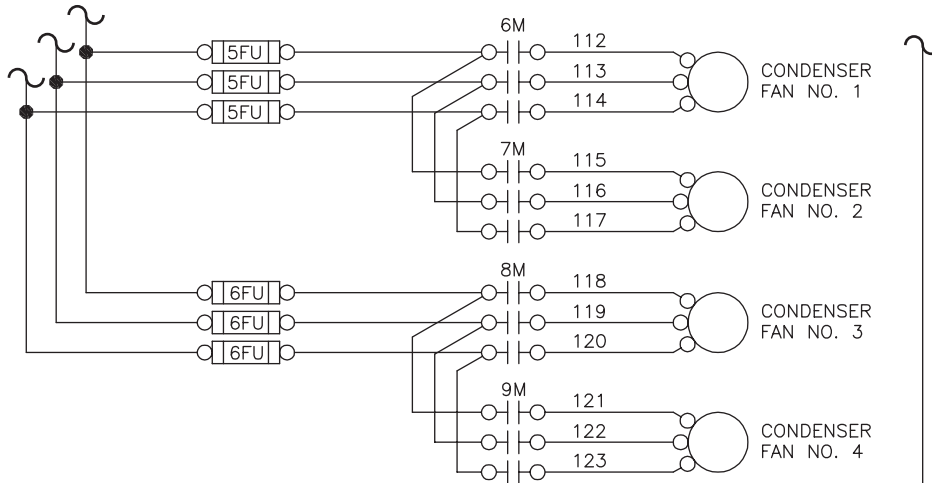
NOTE: OPTIONAL RETURN FAN VFD MANUAL BYPASS EQUIPMENT LOCATED ADJACENT TO THE RETURN FAN VFD. INCLUDES 13M, 130L AND 14M. SWITCH MAKES ELECTRICAL INTERLOCK

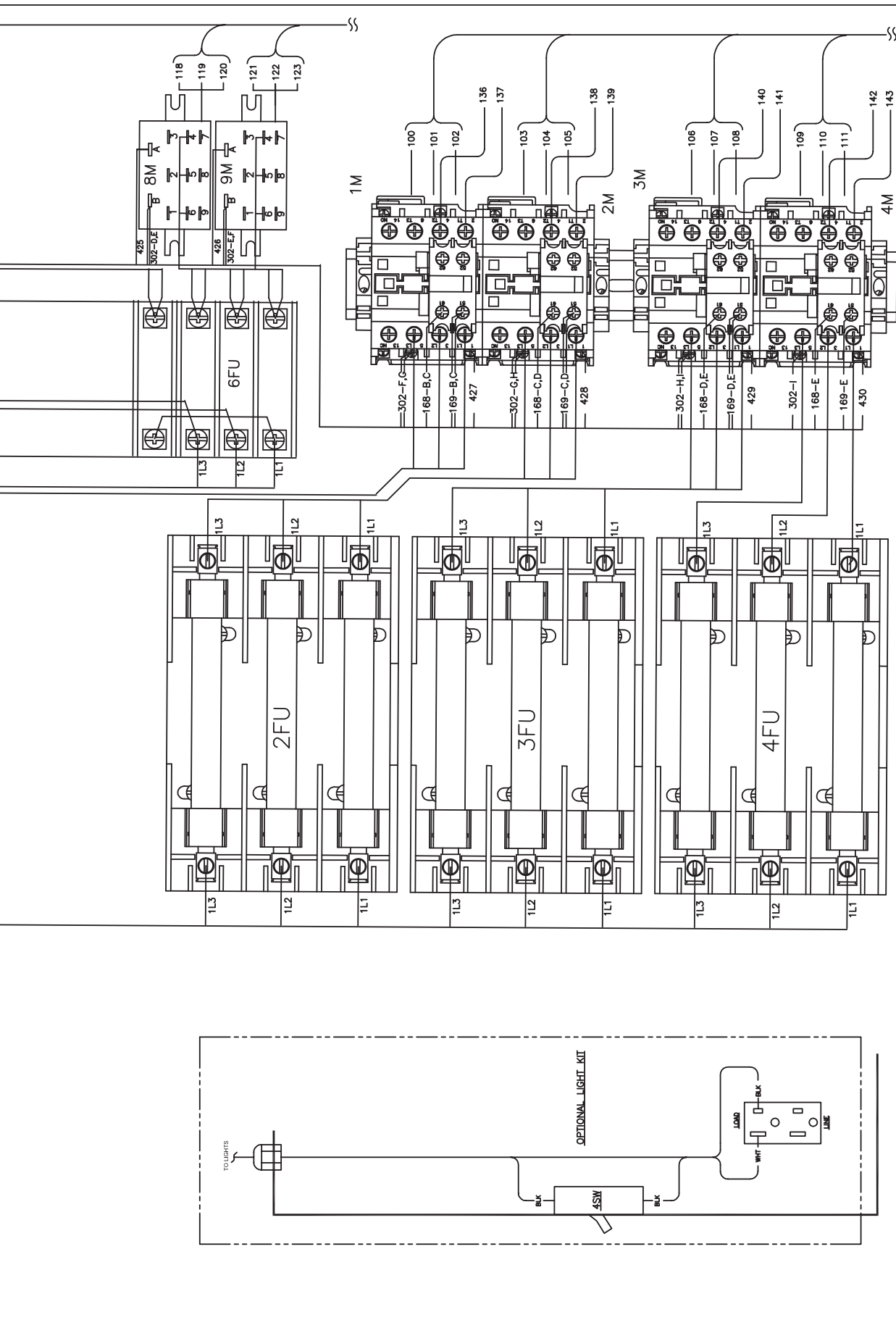


LD13731

FIG. 7B – POWER SIDE LCR 50 THRU 61 VAV W/ SINGLE POINT POWER & RETURN FAN (ENLARGED VIEW 2)

See Enlarged
View 1





LD13734

FIG. 8 – COMPONENT MAP - SINGLE POINT POWER POINT CONNECTION W/ OR W/O POWER DISCONNECT

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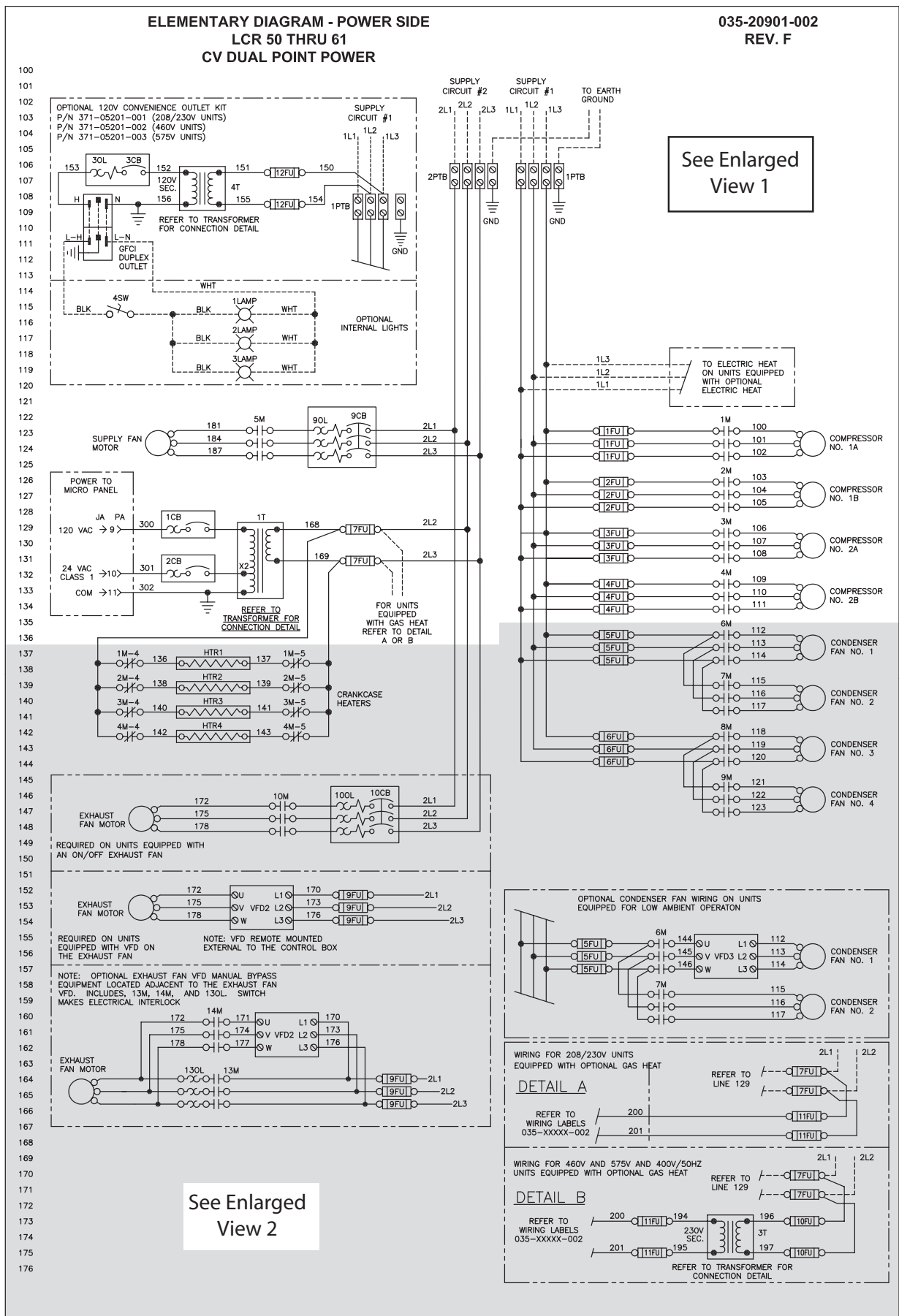
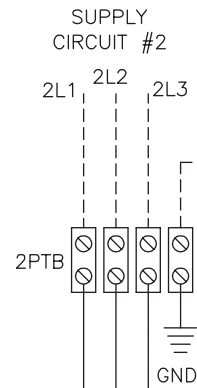
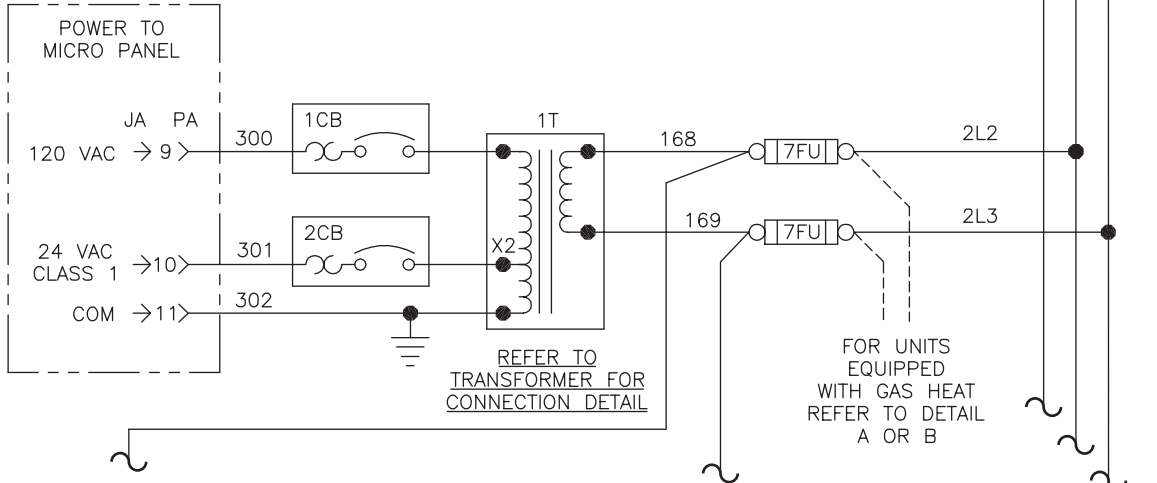
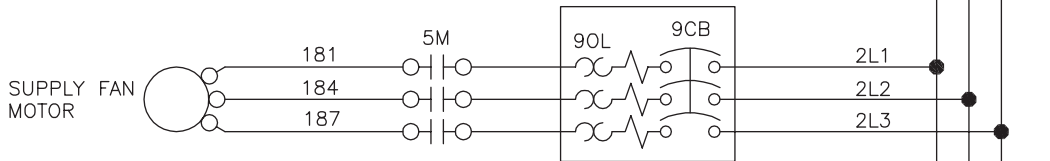
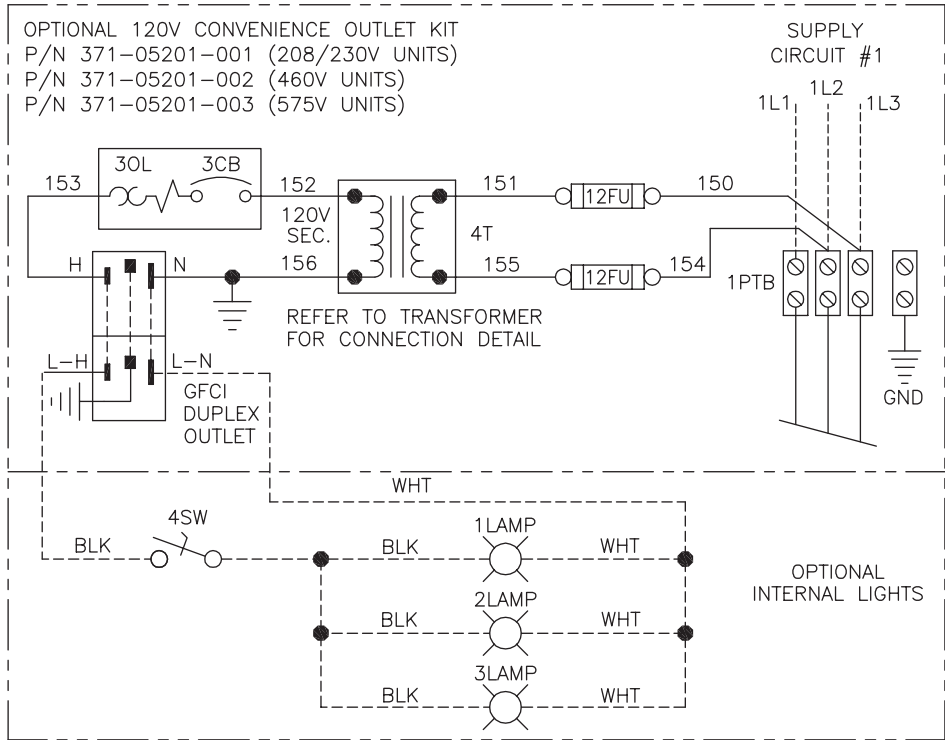


FIG. 9 – POWER SIDE LCR 50 THRU 61 CV DUAL POINT POWER

LD13739

ELEMENTARY DIAGRAM - POWER SIDE LCR 50 THRU 61 CV DUAL POINT POWER

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See Enlarged View 2

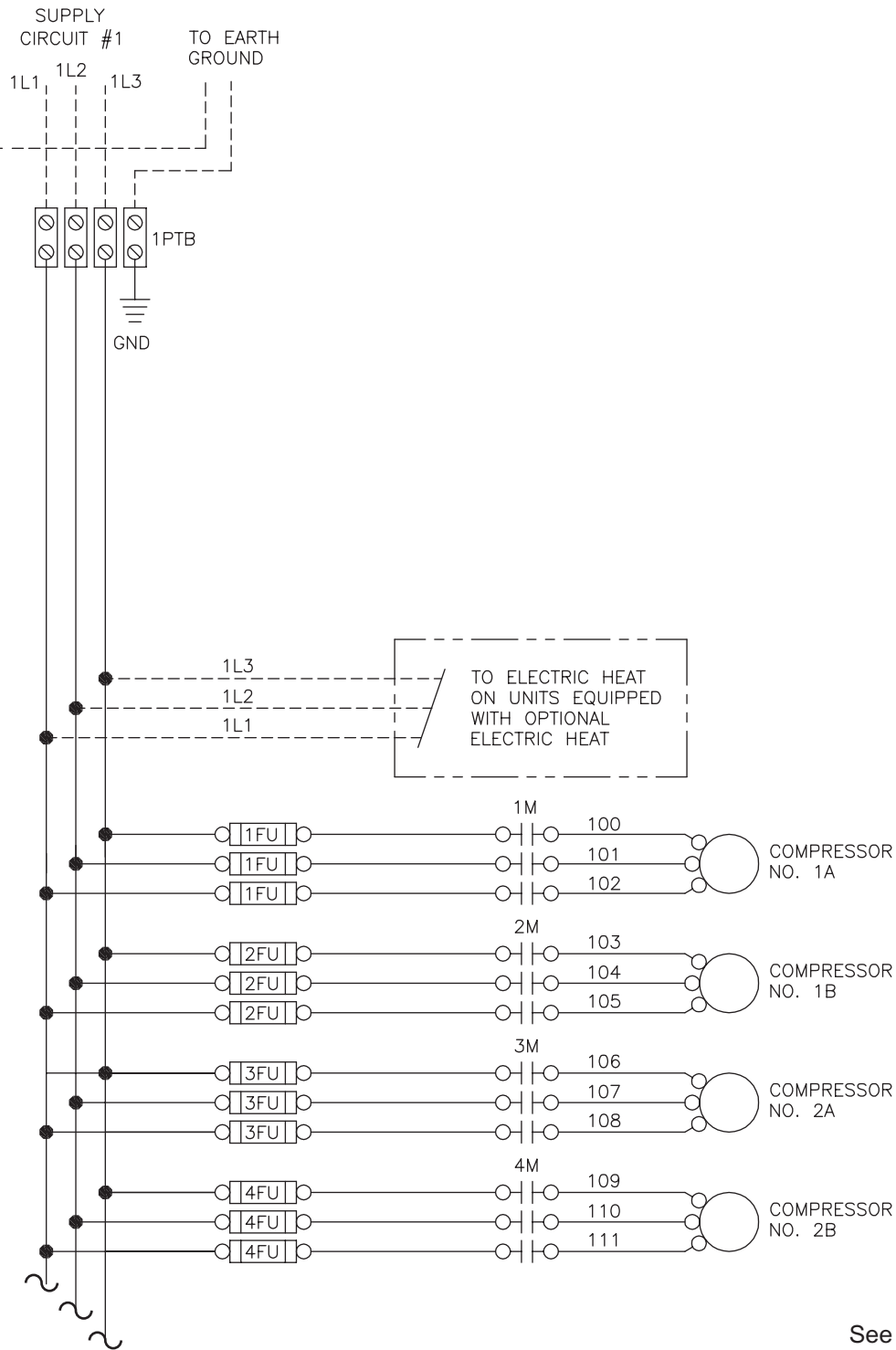
See Enlarged View 2

See Enlarged View 2

LD13735

FIG. 9A - POWER SIDE LCR 50 THRU 61 CV DUAL POINT POWER (ENLARGED VIEW 1)

035-20901-002 REV. F



See Enlarged View 2

See Enlarged View 2

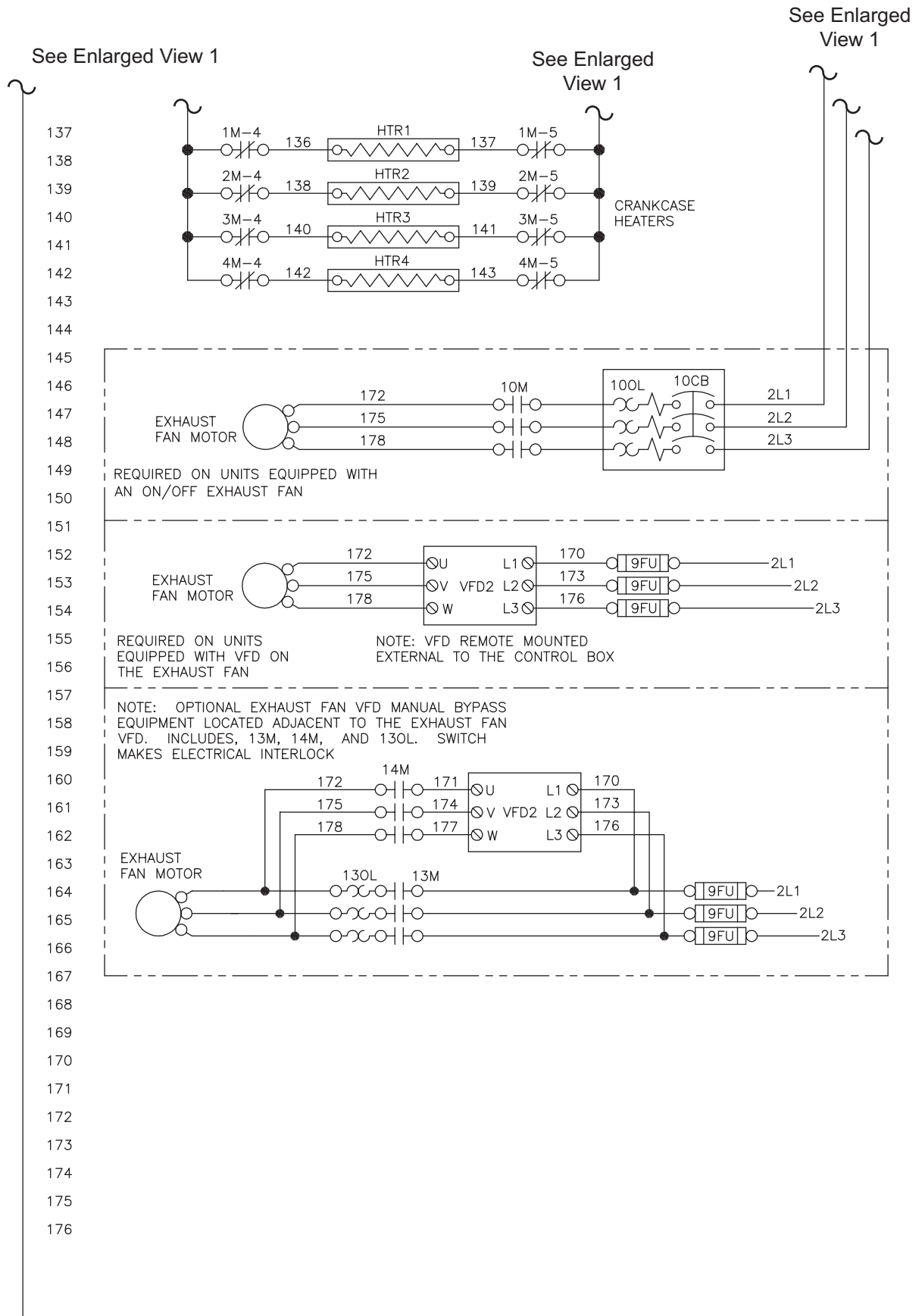
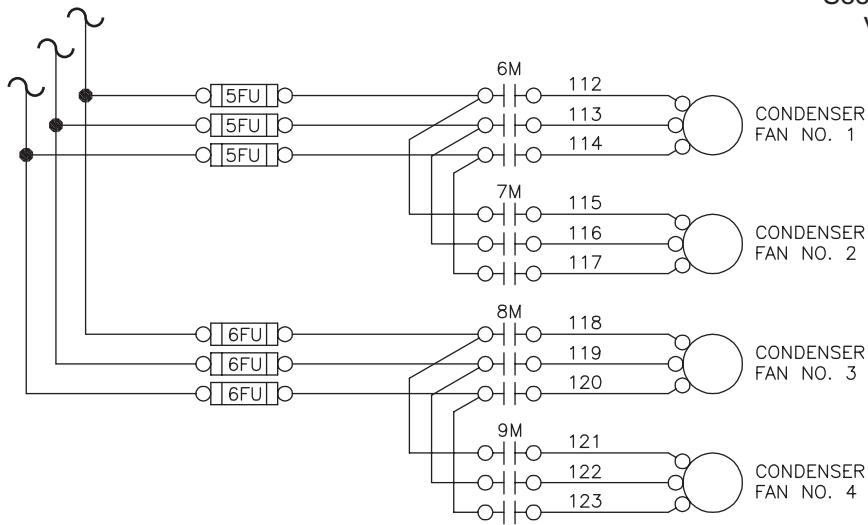


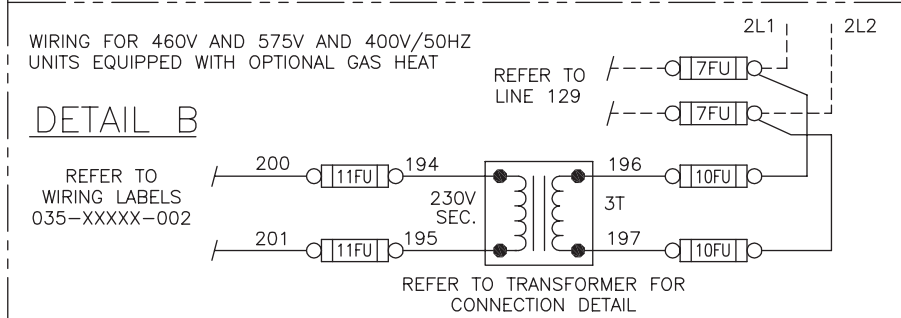
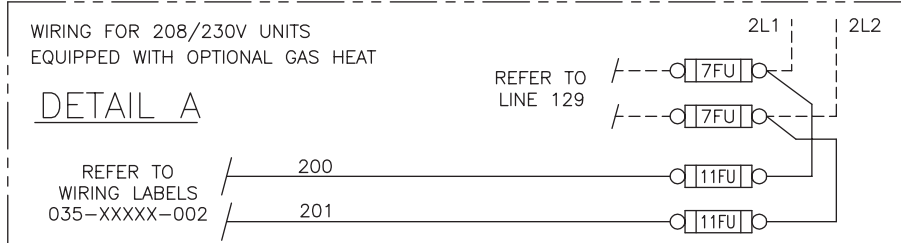
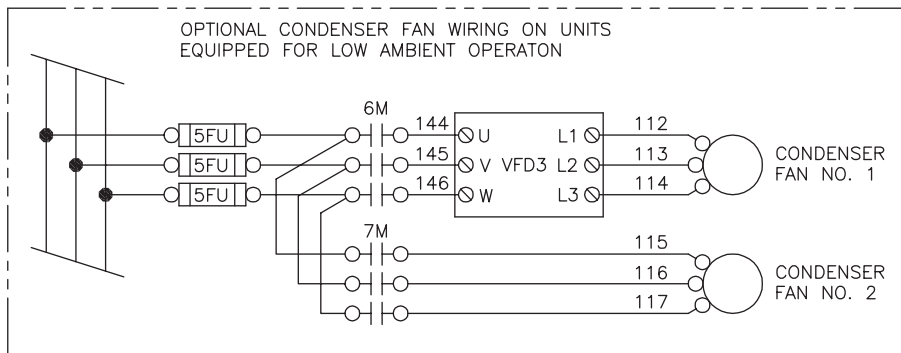
FIG. 9B – POWER SIDE LCR 50 THRU 61 CV DUAL POINT POWER (ENLARGED VIEW 2)

LD13737

See Enlarged
View 1



See Enlarged
View 1



LD13738

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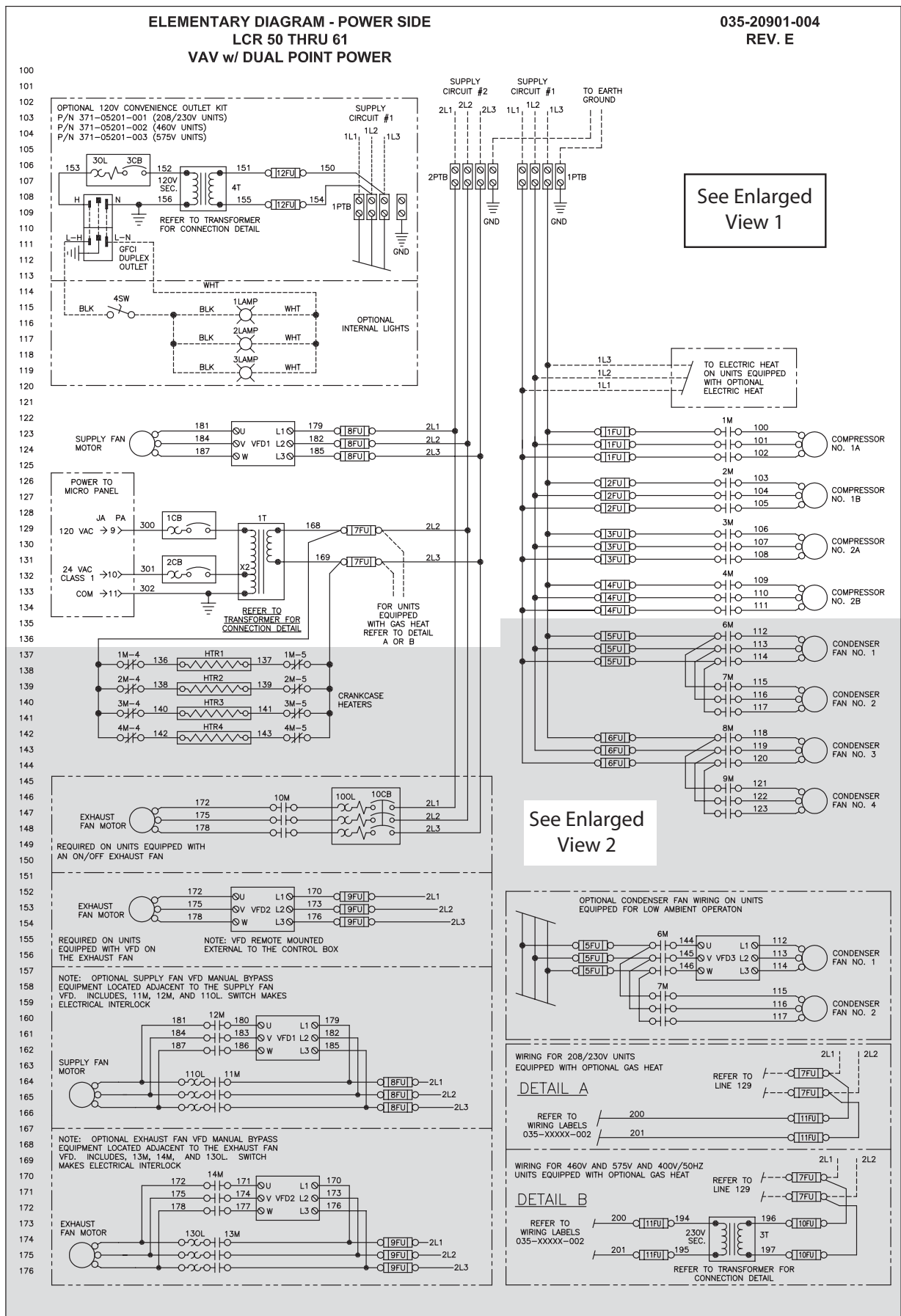
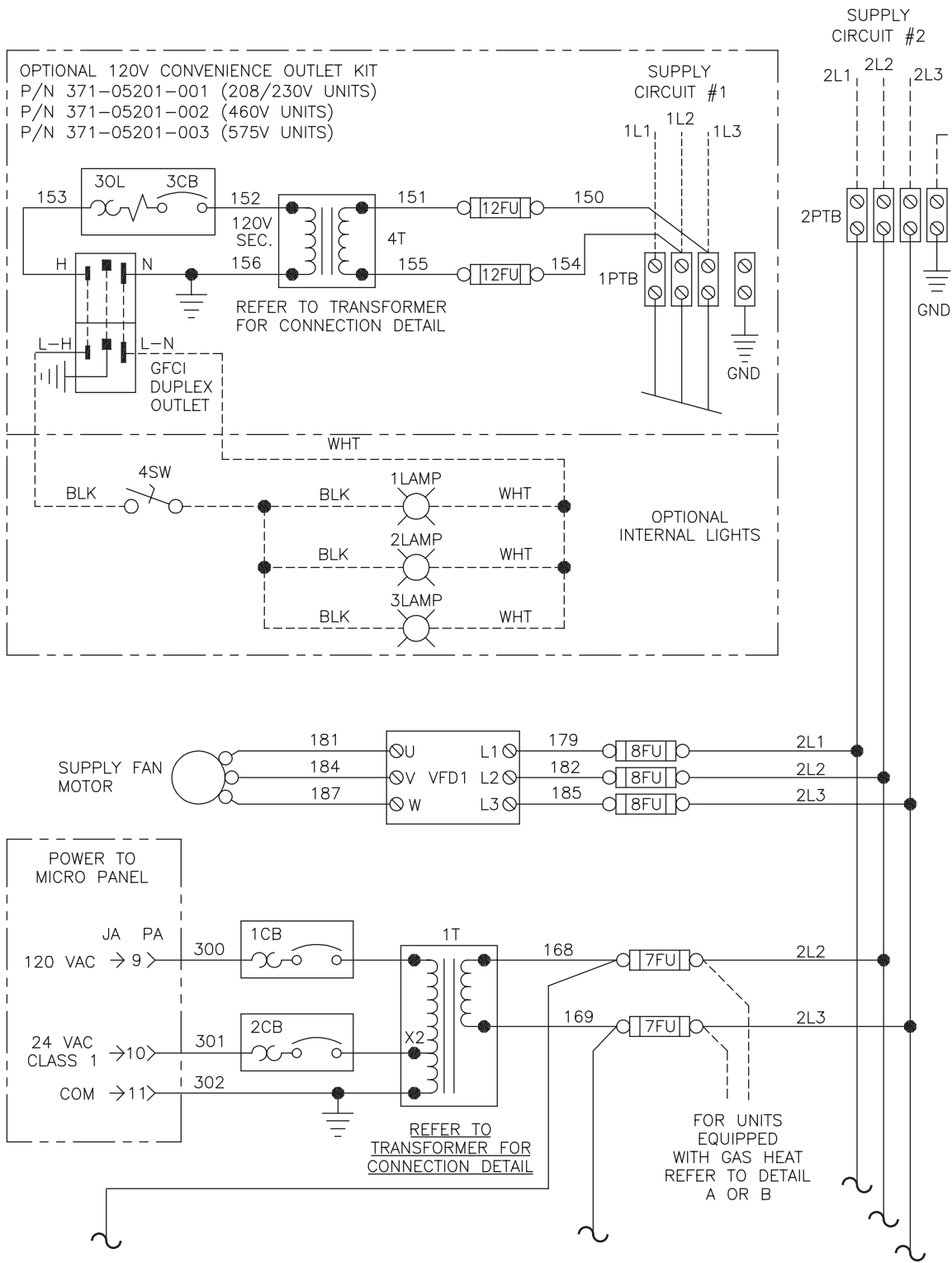


FIG. 10 – POWER SIDE LCR 50 THRU 61 VAV w/ DUAL POINT POWER

ELEMENTARY DIAGRAM - POWER SIDE LCR 50 THRU 61 VAV w/ DUAL POINT POWER

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See Enlarged View 2

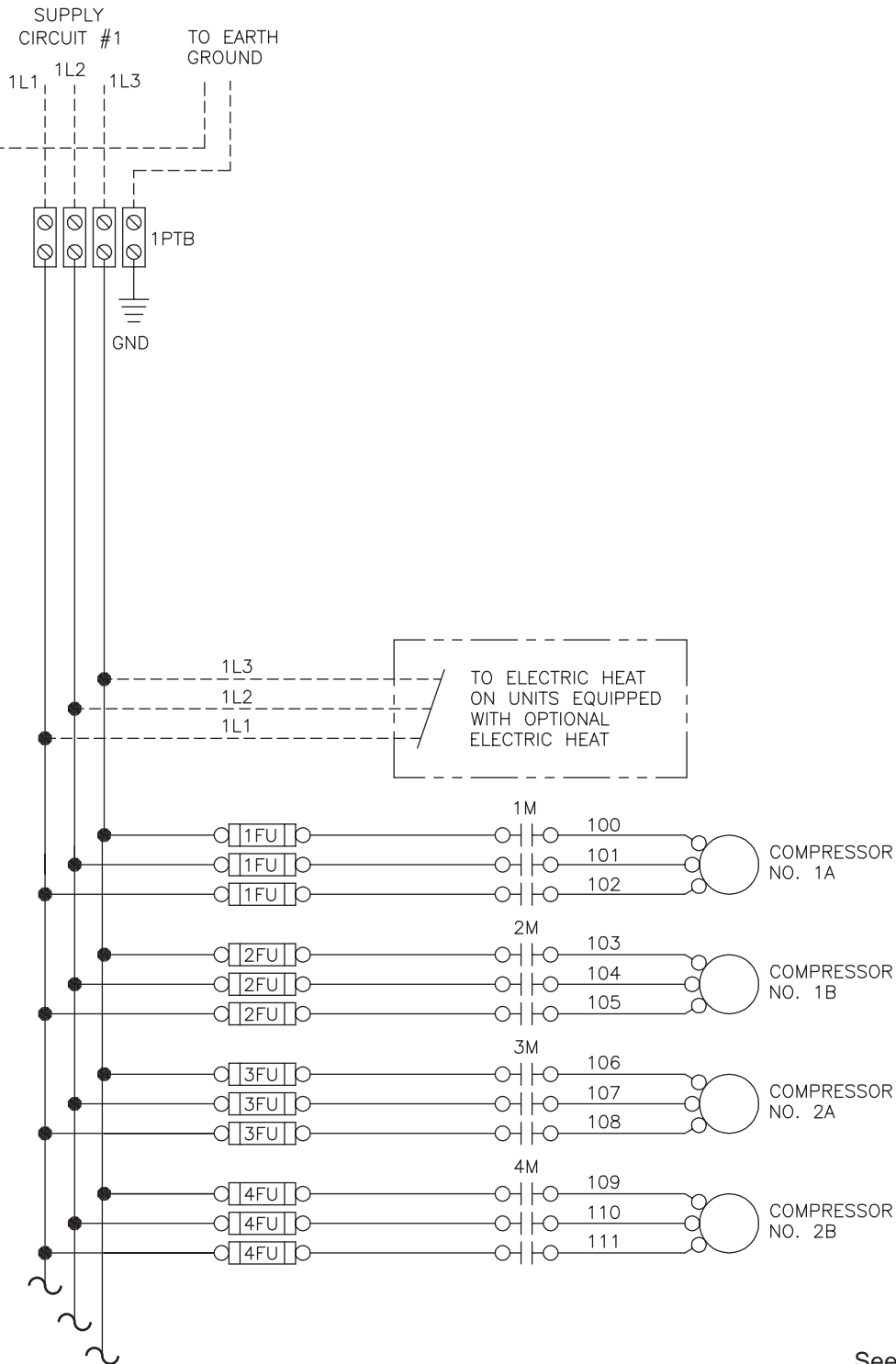
See Enlarged View 2

See Enlarged View 2

LD13741

FIG. 10A – POWER SIDE LCR 50 THRU 61 VAV W/ DUAL POINT POWER (ENLARGED VIEW 1)

035-20901-004 REV. E



See Enlarged View 2

See Enlarged View 2

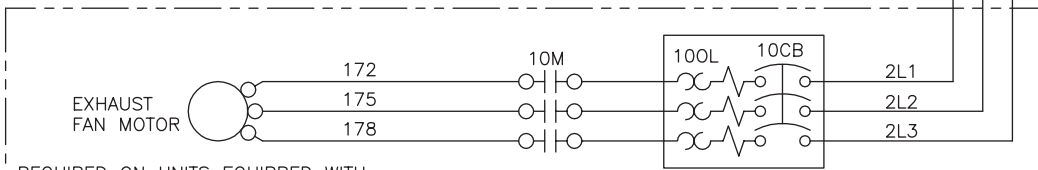
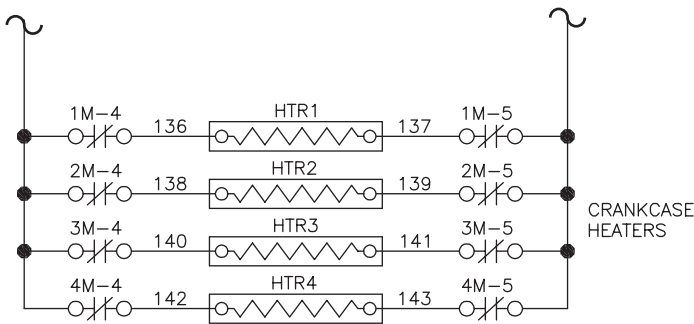
LD13742

See Enlarged View 1

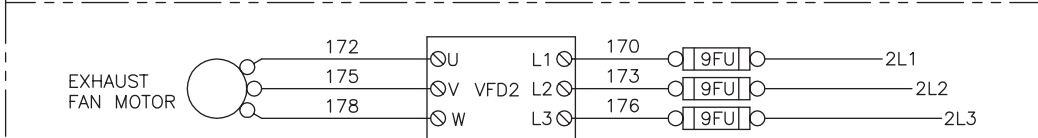
See Enlarged View 1

See Enlarged View 1

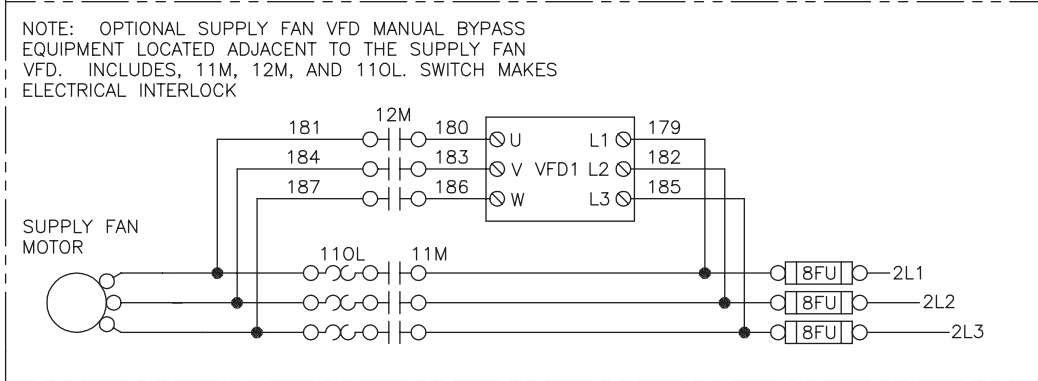
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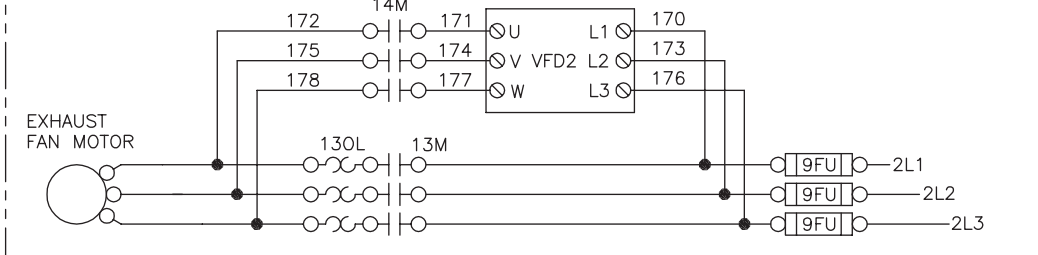
REQUIRED ON UNITS EQUIPPED WITH AN ON/OFF EXHAUST FAN



REQUIRED ON UNITS EQUIPPED WITH VFD ON THE EXHAUST FAN
NOTE: VFD REMOTE MOUNTED EXTERNAL TO THE CONTROL BOX



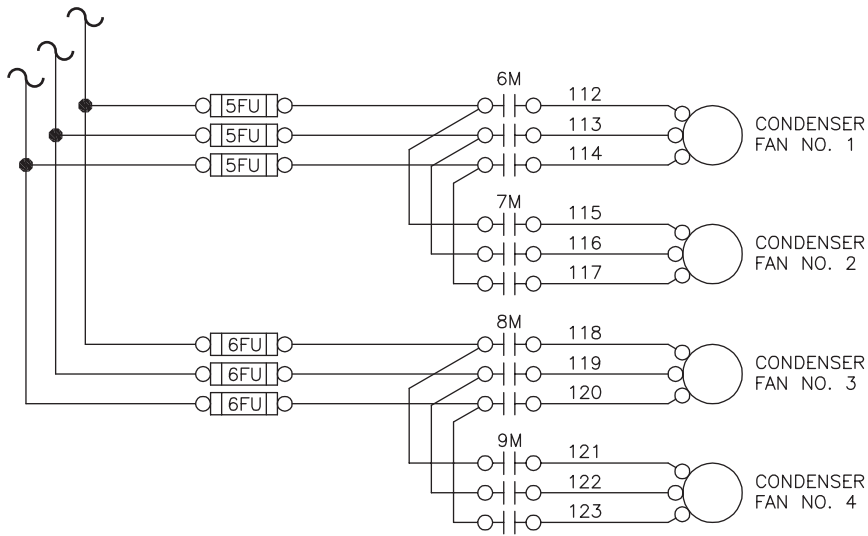
NOTE: OPTIONAL SUPPLY FAN VFD MANUAL BYPASS EQUIPMENT LOCATED ADJACENT TO THE SUPPLY FAN VFD. INCLUDES, 11M, 12M, AND 110L. SWITCH MAKES ELECTRICAL INTERLOCK



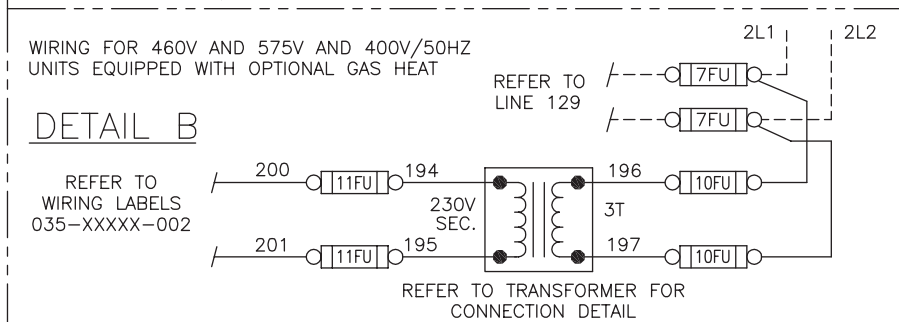
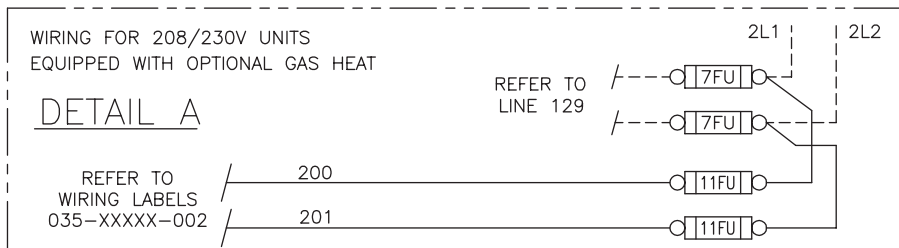
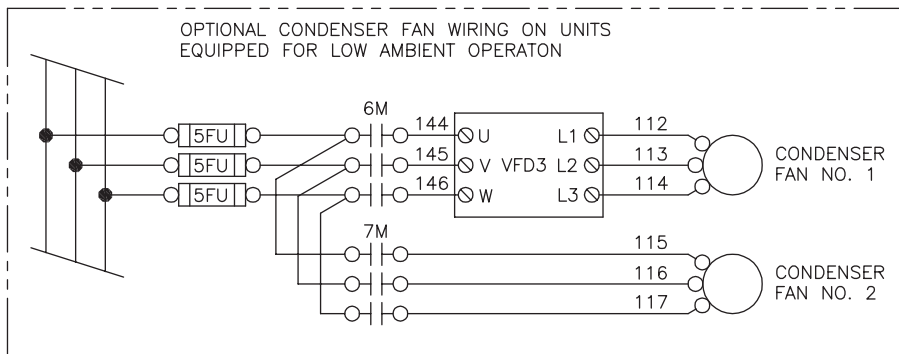
NOTE: OPTIONAL EXHAUST FAN VFD MANUAL BYPASS EQUIPMENT LOCATED ADJACENT TO THE EXHAUST FAN VFD. INCLUDES, 13M, 14M, AND 130L. SWITCH MAKES ELECTRICAL INTERLOCK

FIG. 10B – POWER SIDE LCR 50 THRU 61 VAV W/ DUAL POINT POWER (ENLARGED VIEW 2)

See Enlarged
View 1



See Enlarged
View 1



LD13744

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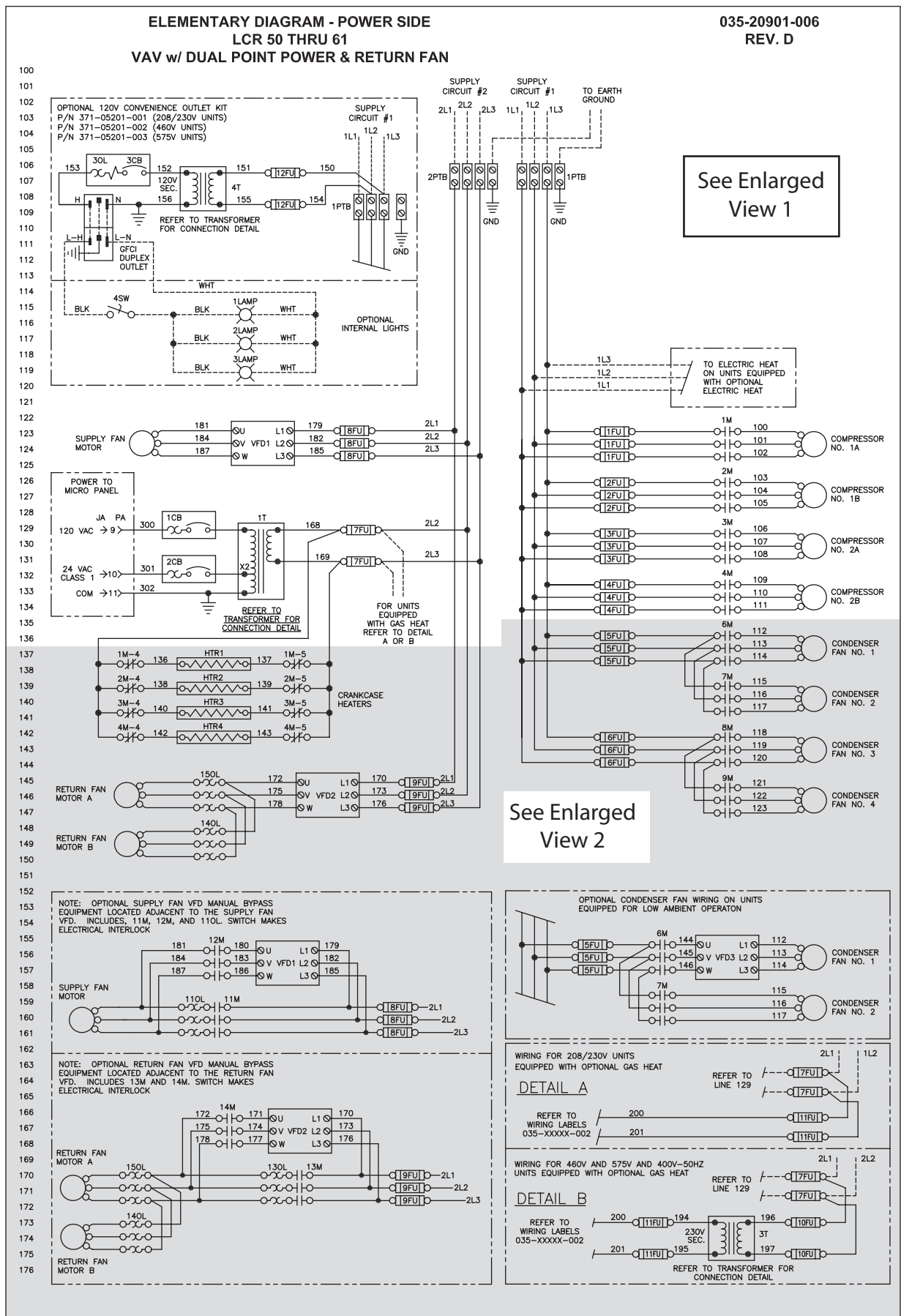
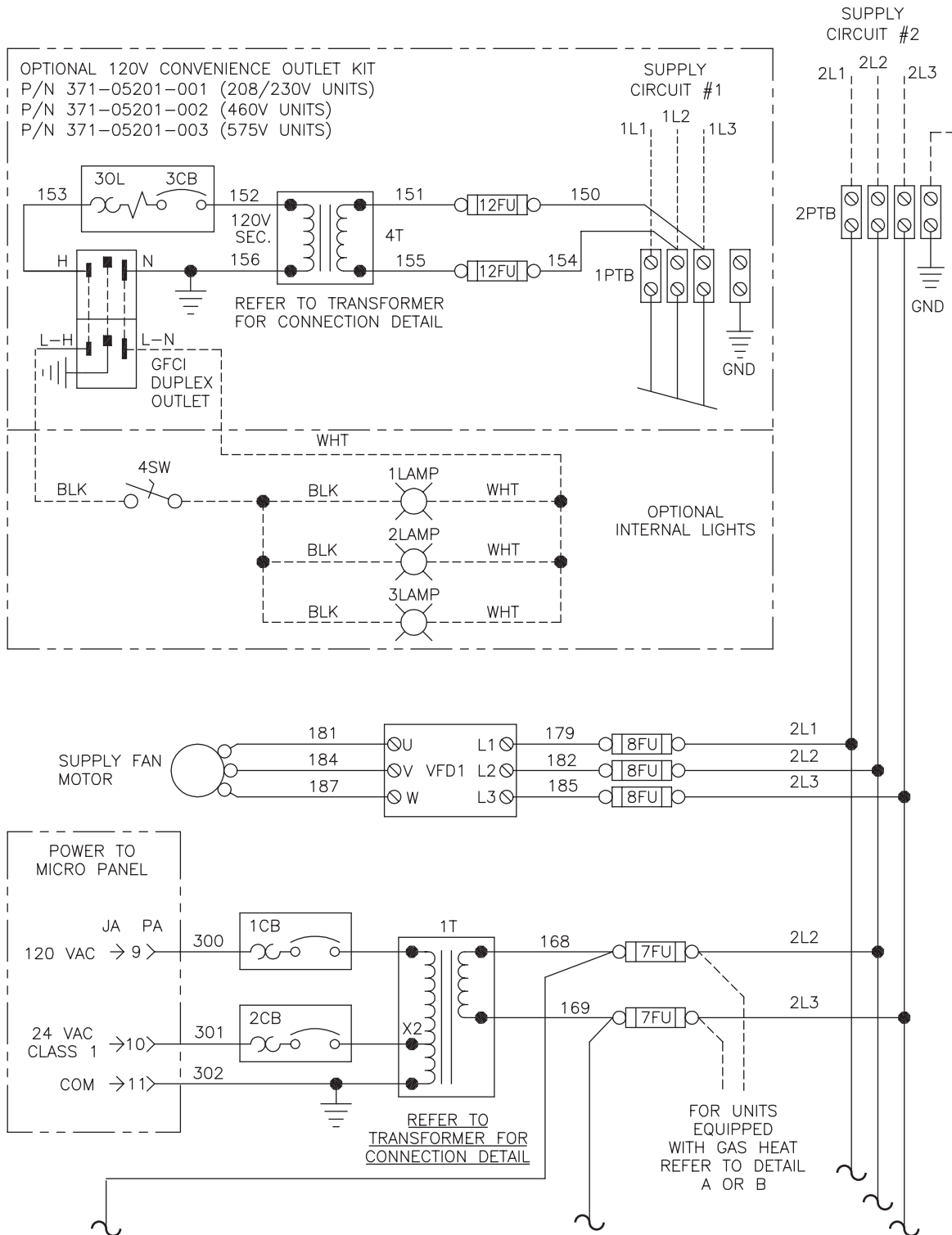


FIG. 11 – POWER SIDE LCR 50 THRU 61 VAV W/ DUAL POINT POWER & RETURN FAN

LD13745

ELEMENTARY DIAGRAM - POWER SIDE LCR 50 THRU 61 VAV w/ DUAL POINT POWER & RETURN FAN

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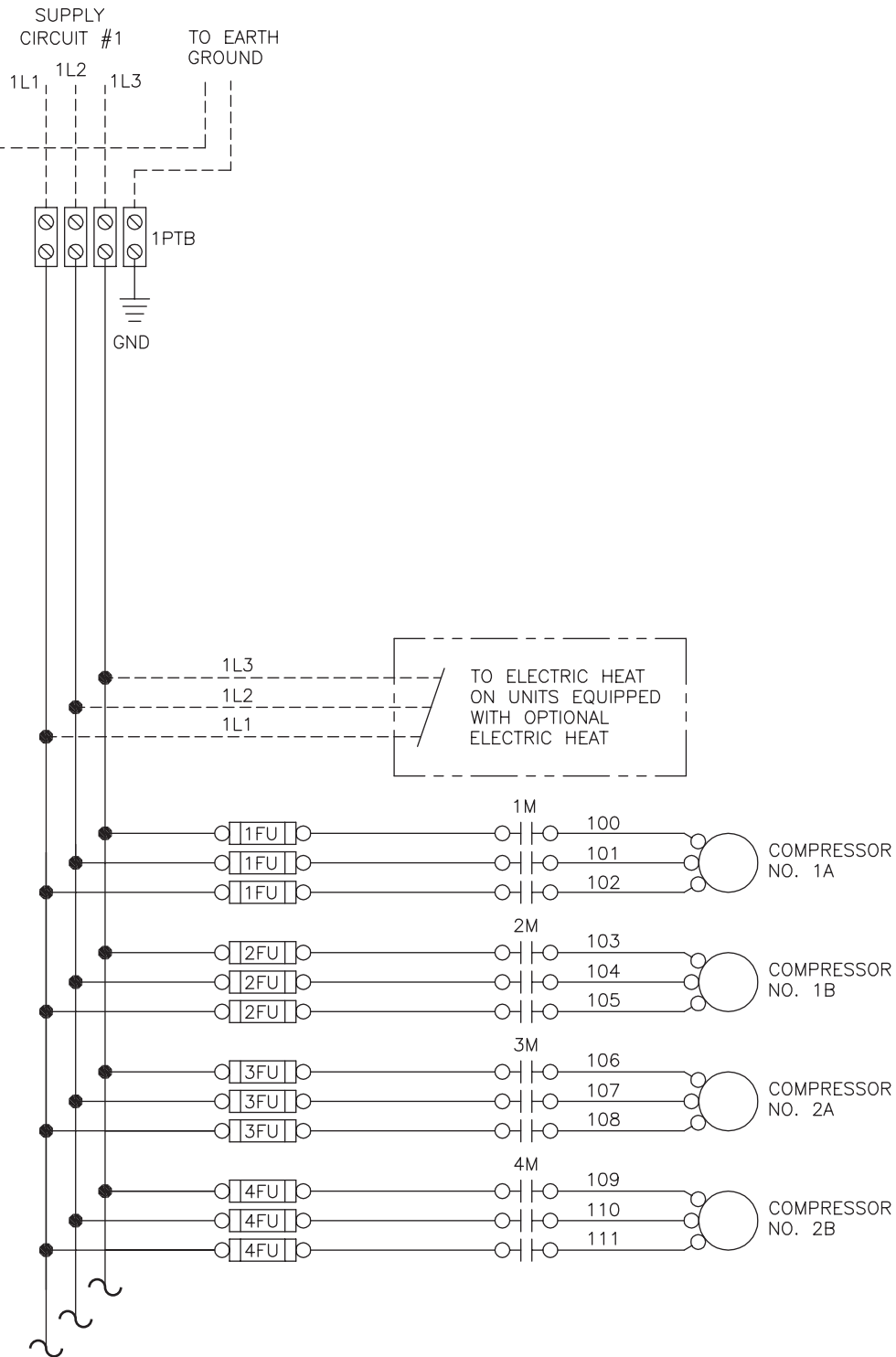
See Enlarged View 2

See Enlarged View 2

LD137467

FIG. 11A – POWER SIDE LCR 50 THRU 61 VAV W/ DUAL POINT POWER & RETURN FAN (ENLARGED VIEW 1)

035-20901-006 REV. D



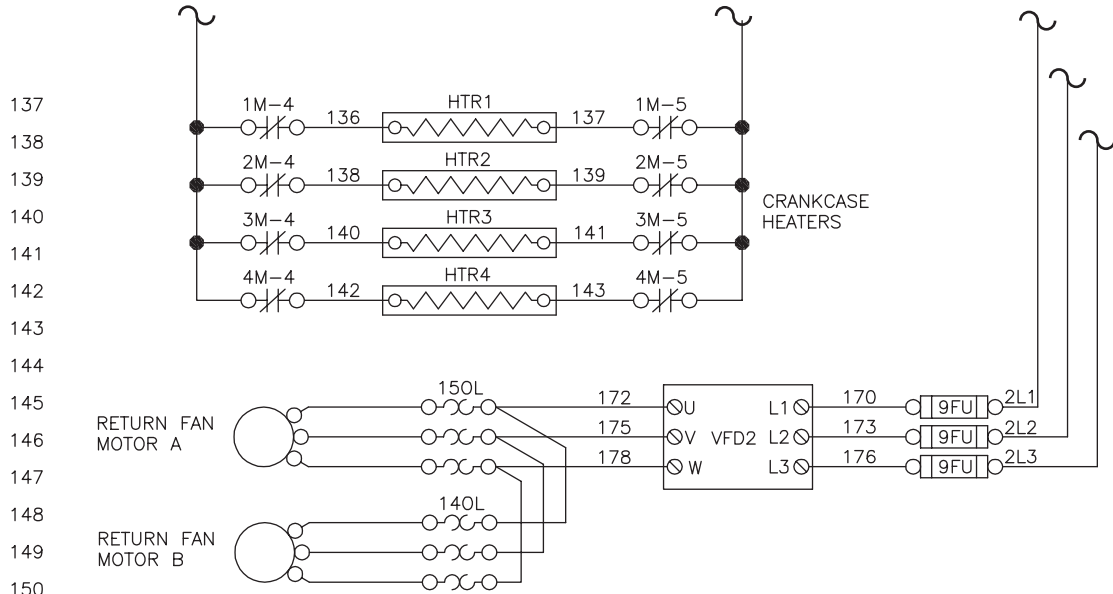
See Enlarged
View 2

See Enlarged
View 2

See Enlarged View 1

See Enlarged View 1

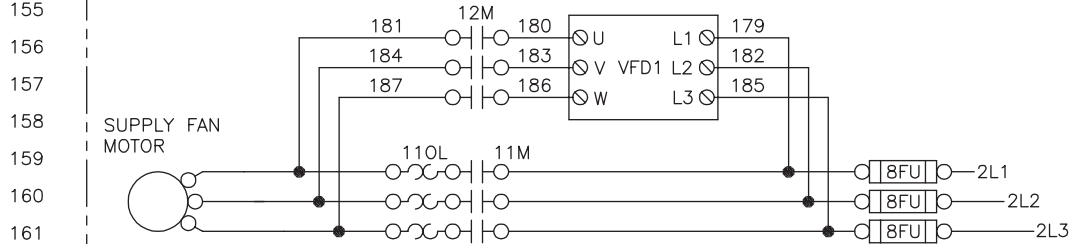
See Enlarged View 1



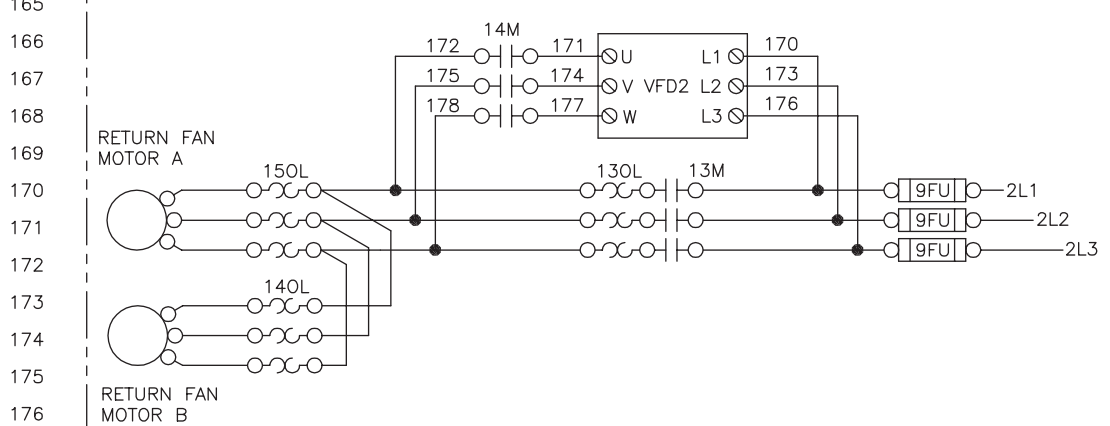
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NOTE: OPTIONAL SUPPLY FAN VFD MANUAL BYPASS EQUIPMENT LOCATED ADJACENT TO THE SUPPLY FAN VFD. INCLUDES, 11M, 12M, AND 110L. SWITCH MAKES ELECTRICAL INTERLOCK



NOTE: OPTIONAL RETURN FAN VFD MANUAL BYPASS EQUIPMENT LOCATED ADJACENT TO THE RETURN FAN VFD. INCLUDES 13M AND 14M. SWITCH MAKES ELECTRICAL INTERLOCK

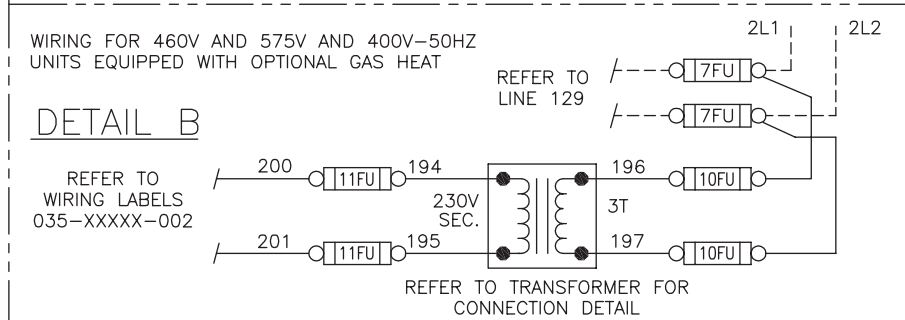
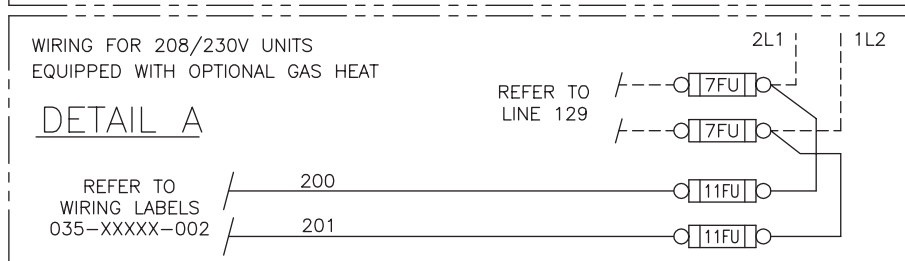
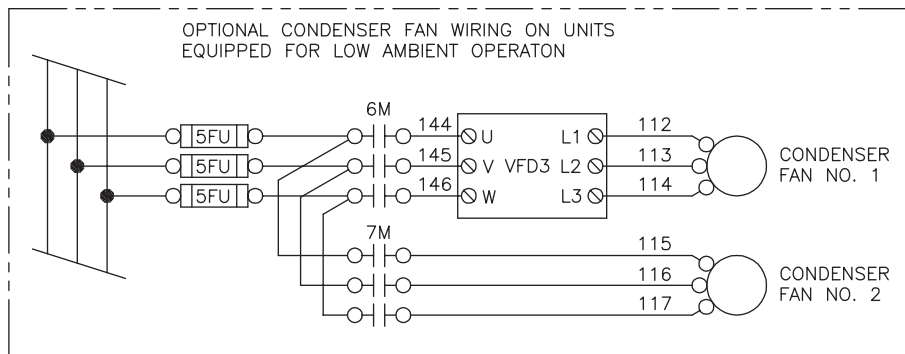
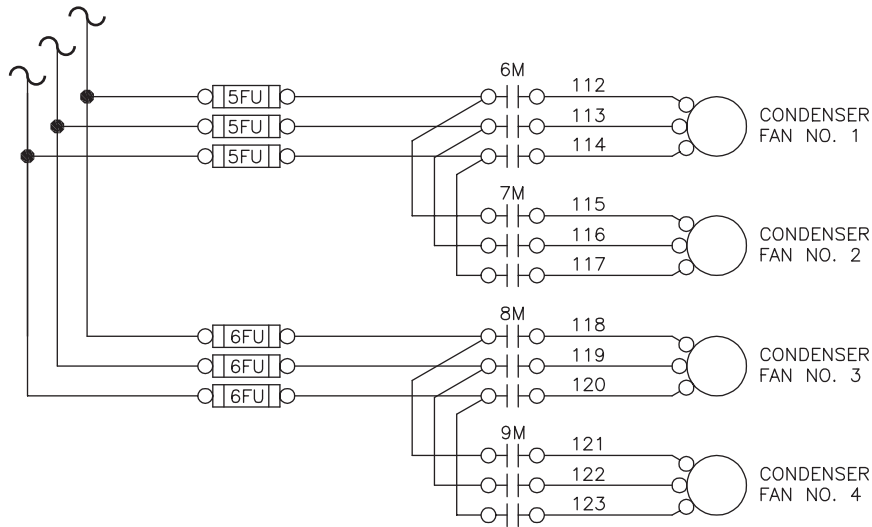


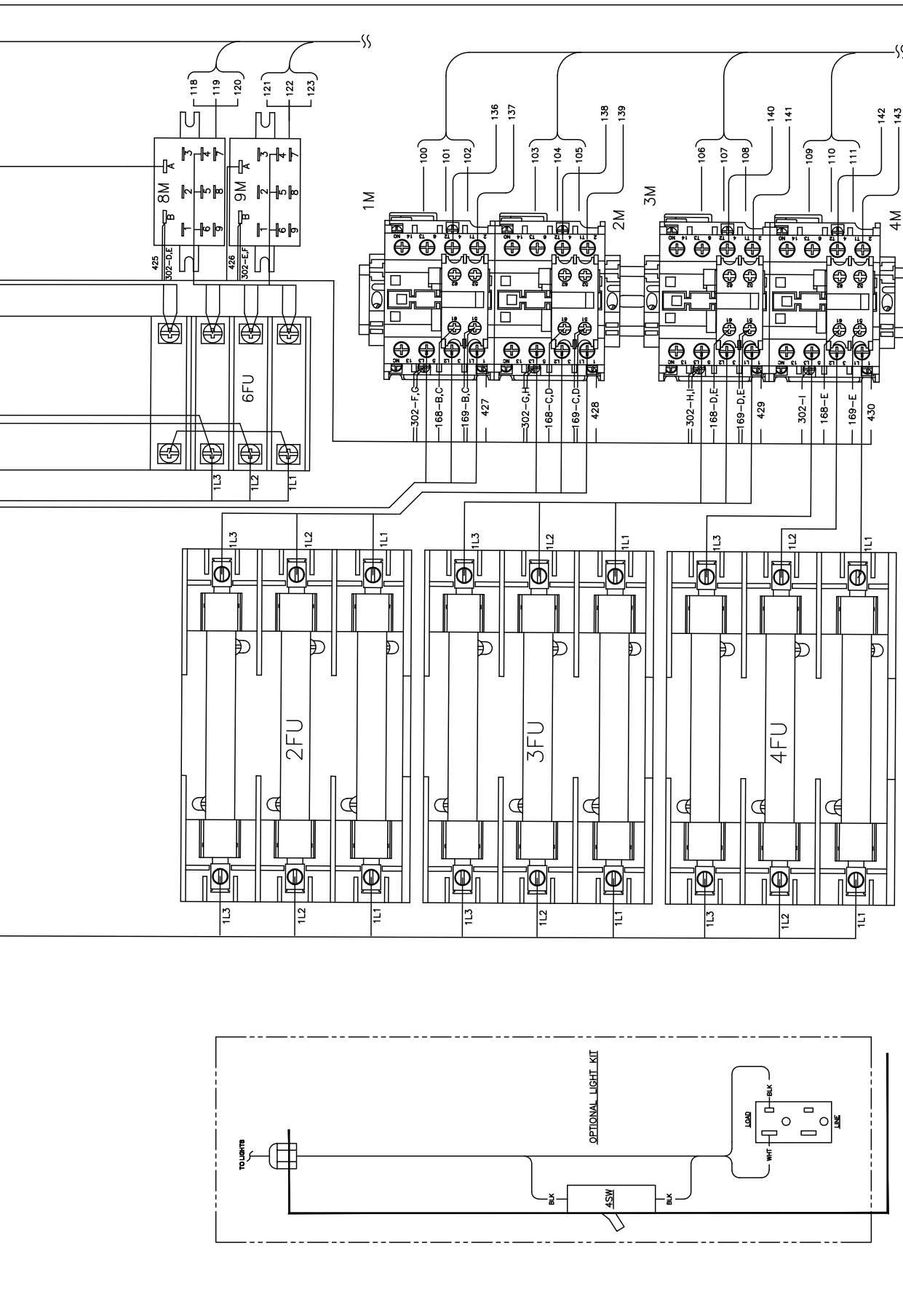
LD13748

FIG. 11B – POWER SIDE LCR 50 THRU 61 VAV W/ DUAL POINT POWER & RETURN FAN (ENLARGED VIEW 2)

See Enlarged
View 1

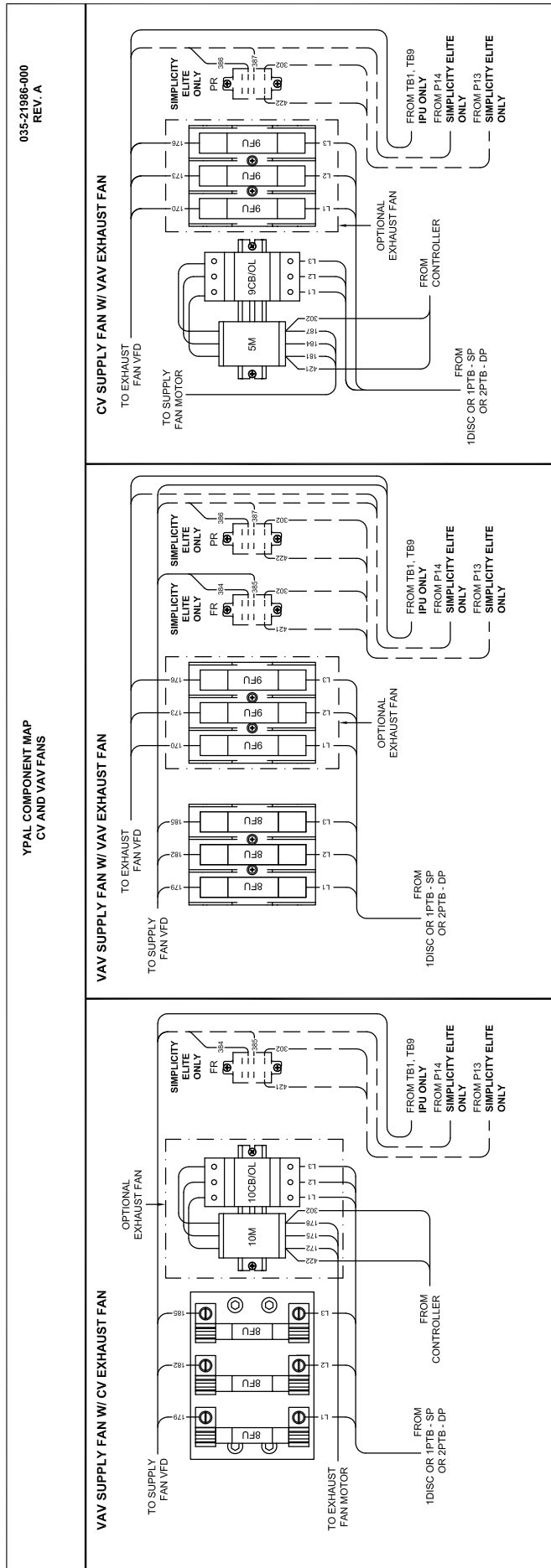
See Enlarged
View 1





LD13751

FIG. 12 – COMPONENT MAP - DUAL POWER POINT CONNECTION



LD13752

FIG. 13 – COMPONENT MAP - CV AND VAV FANS

**ELEMENTARY DIAGRAM
YPAL STAGED GAS HEAT CONTROLS
50-60 TON LCR (S/E)**

**035-20902-001
REV. B**

LEGEND:
RS - ROLL OUT SWITCH
LS - LIMIT SWITCH
IFM - INDUCER FAN MOTOR
GV - GS VALVE
PS - PRESSURE SWITCH
IC - IGNITION CONTROL

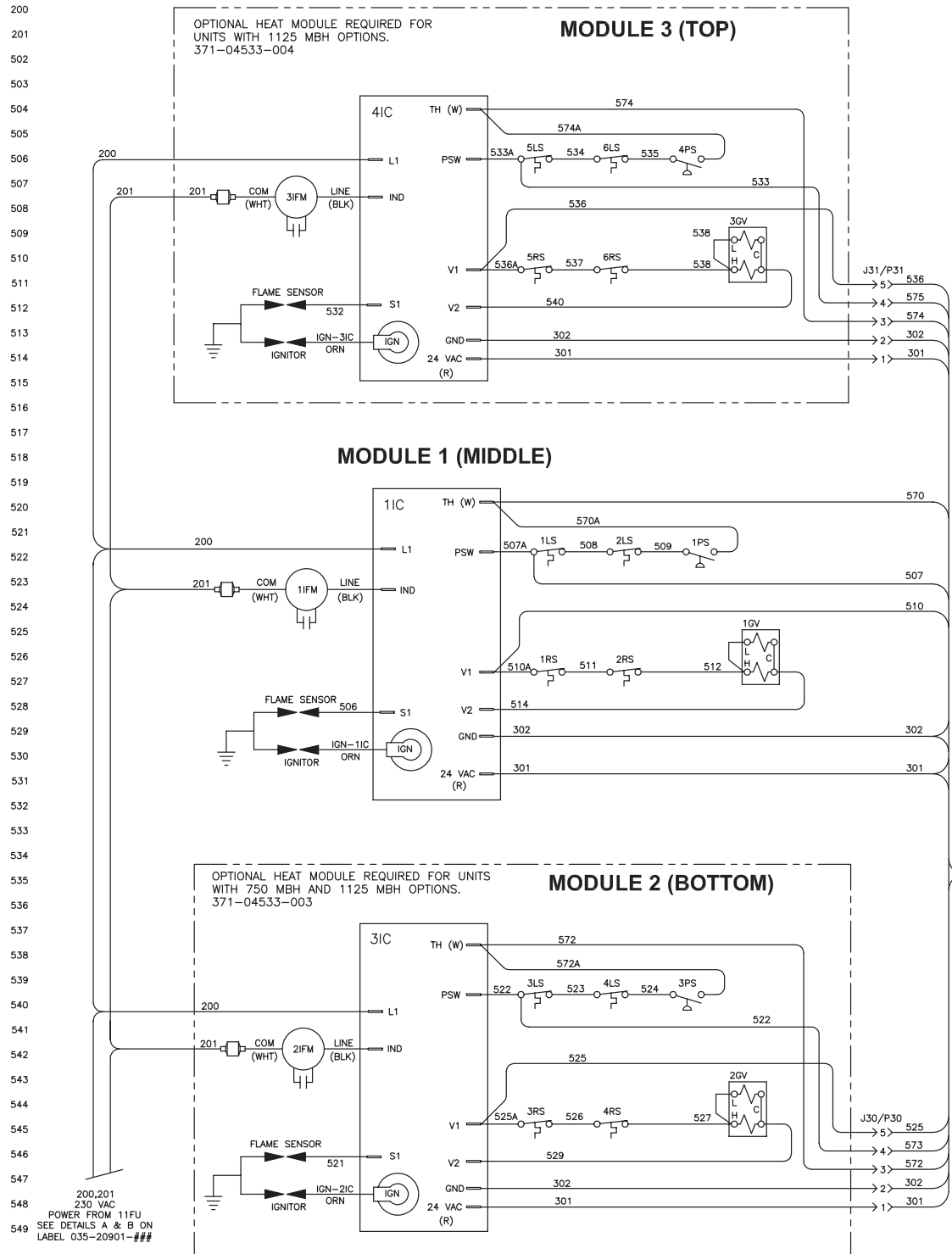
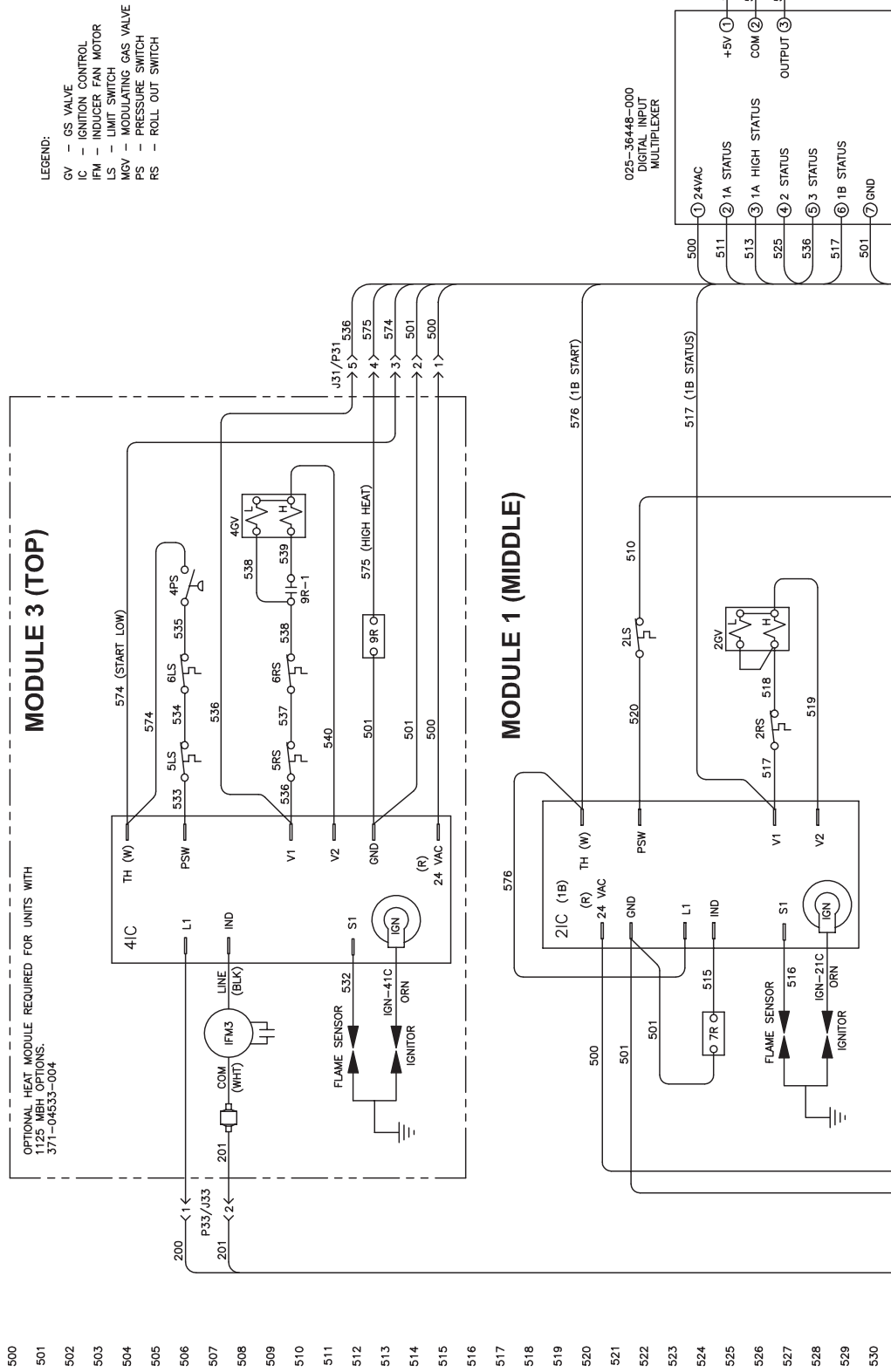


FIG. 14 - STAGED GAS HEAT CONTROLS 50-60 TON LCR (S/E)

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**035-20902-102
REV. A**

**ELEMENTARY DIAGRAM
MODULATING GAS HEAT
IPU CONTROLS (R410A)
50, 51, 60, 61 TON**



LEGEND:
GV - GS VALVE
IC - IGNITION CONTROL
IFM - INDUCER FAN MOTOR
LS - LIMIT SWITCH
MG - MODULATING GAS VALVE
PS - PRESSURE SWITCH
RS - ROLL OUT SWITCH

OPTIONAL HEAT MODULE REQUIRED FOR UNITS WITH 1125 MBH OPTIONS.
371-04653-004

025-36448-000
DIGITAL INPUT
MULTIPLEXER

541, 542, 543
TO J5 ON MICRO
SEE LINE 335 ON:
LABEL 035-20900-002

LD13758

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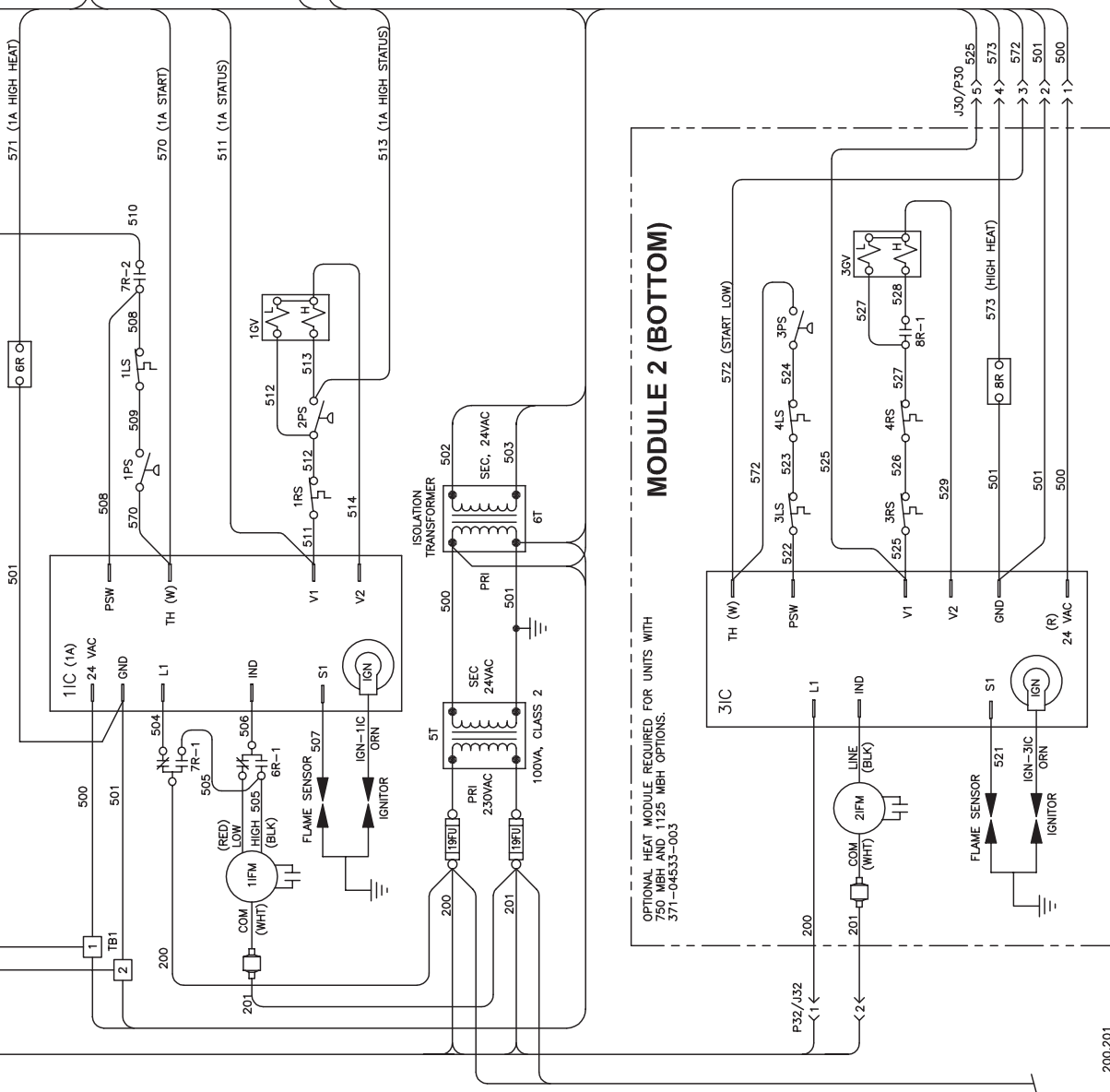
JOHNSON CONTROLS

500,570,571,572,573,574,575,576
TO TB9 ON MICRO
SEE LINES 569,574 ON
LABEL 035-20900-002

025-56378-000
MODULATING GAS
VALVE SIGNAL
CONDITIONER

565,566
TO TB9 ON MICRO
SEE LABEL
035-20900-002
DETAIL H

026-40654-000
MODULATING GAS
VALVE



MODULE 2 (BOTTOM)

OPTIONAL HEAT MODULE REQUIRED FOR UNITS WITH
750 MBH AND 1125 MBH OPTIONS.
371-04533-003

200,201
230 VAC
POWER FROM 11FV
SEE DETAIL A OR B ON
LABEL 035-20901-###

REV'D 11-07-07

FIG. 16 – MODULATING GAS HEAT IPU CONTROLS 50-61 TON (R410A), 50-61 TON

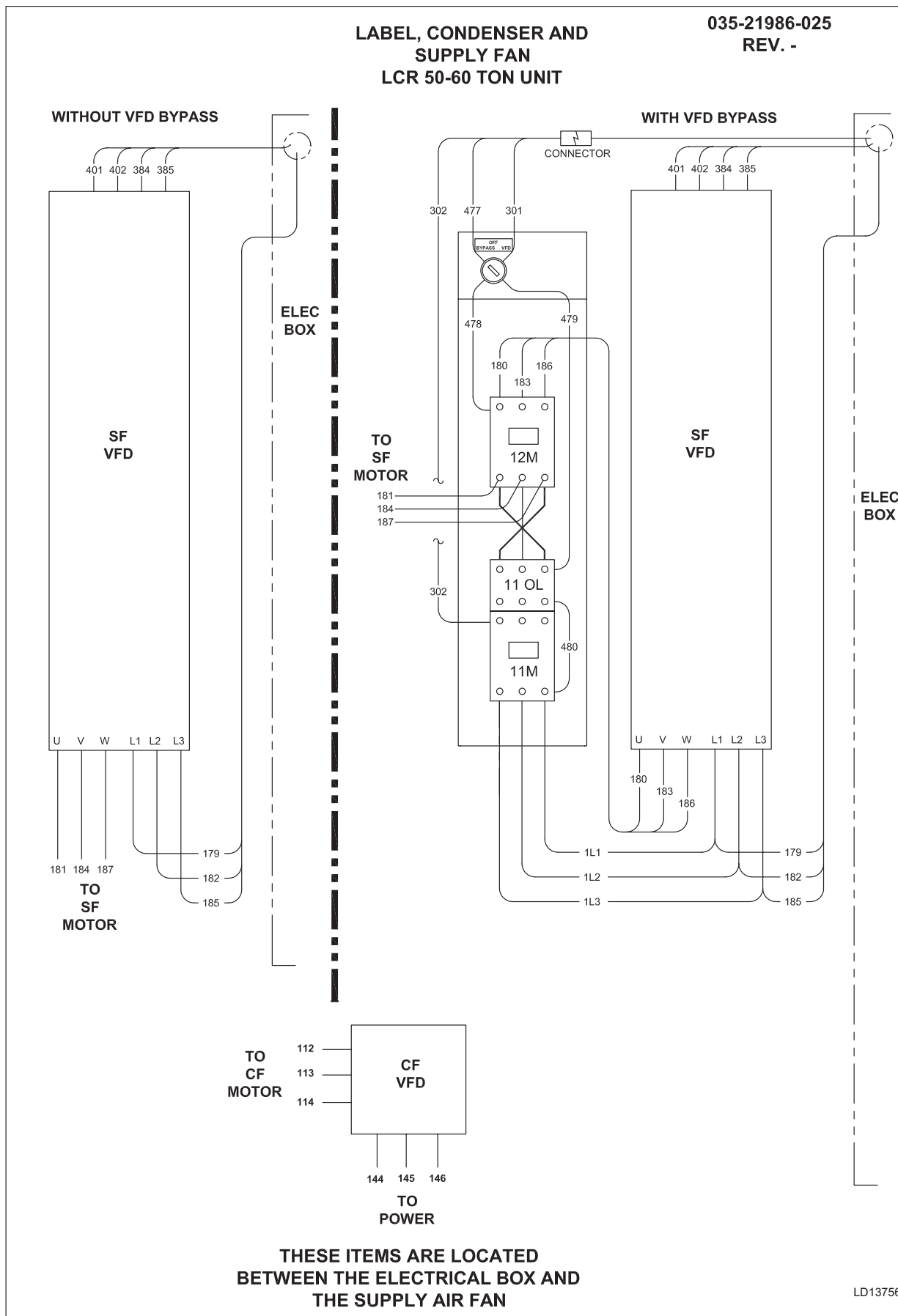


FIG. 17 – CONDENSER AND SUPPLY FAN, LCR 50-60 TON

