LUMA

ELECTRICAL SCHEMATICS

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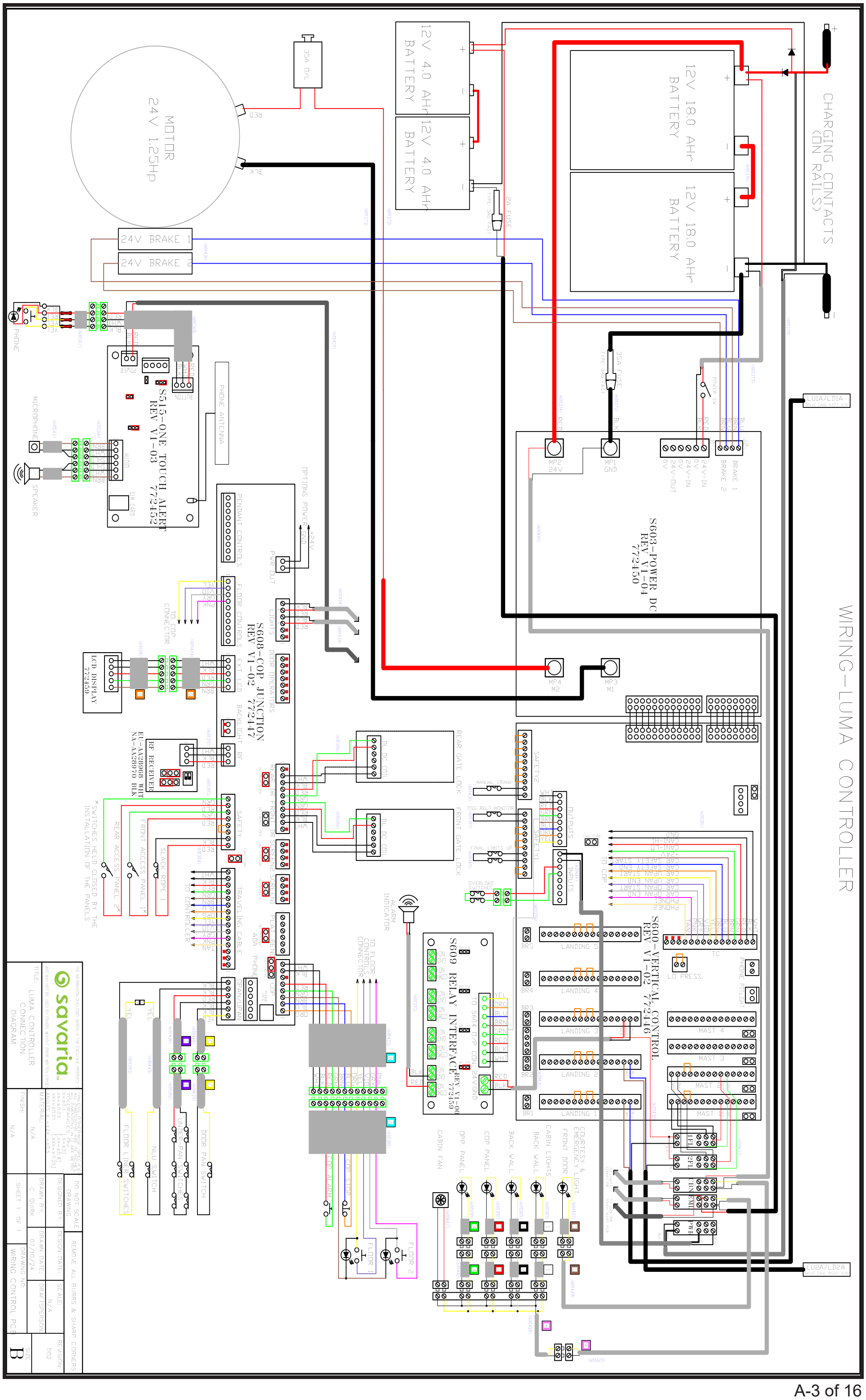
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Part No. 001569, Rev. 002 (Rev 01-m07-2025)

REVISION HISTORY

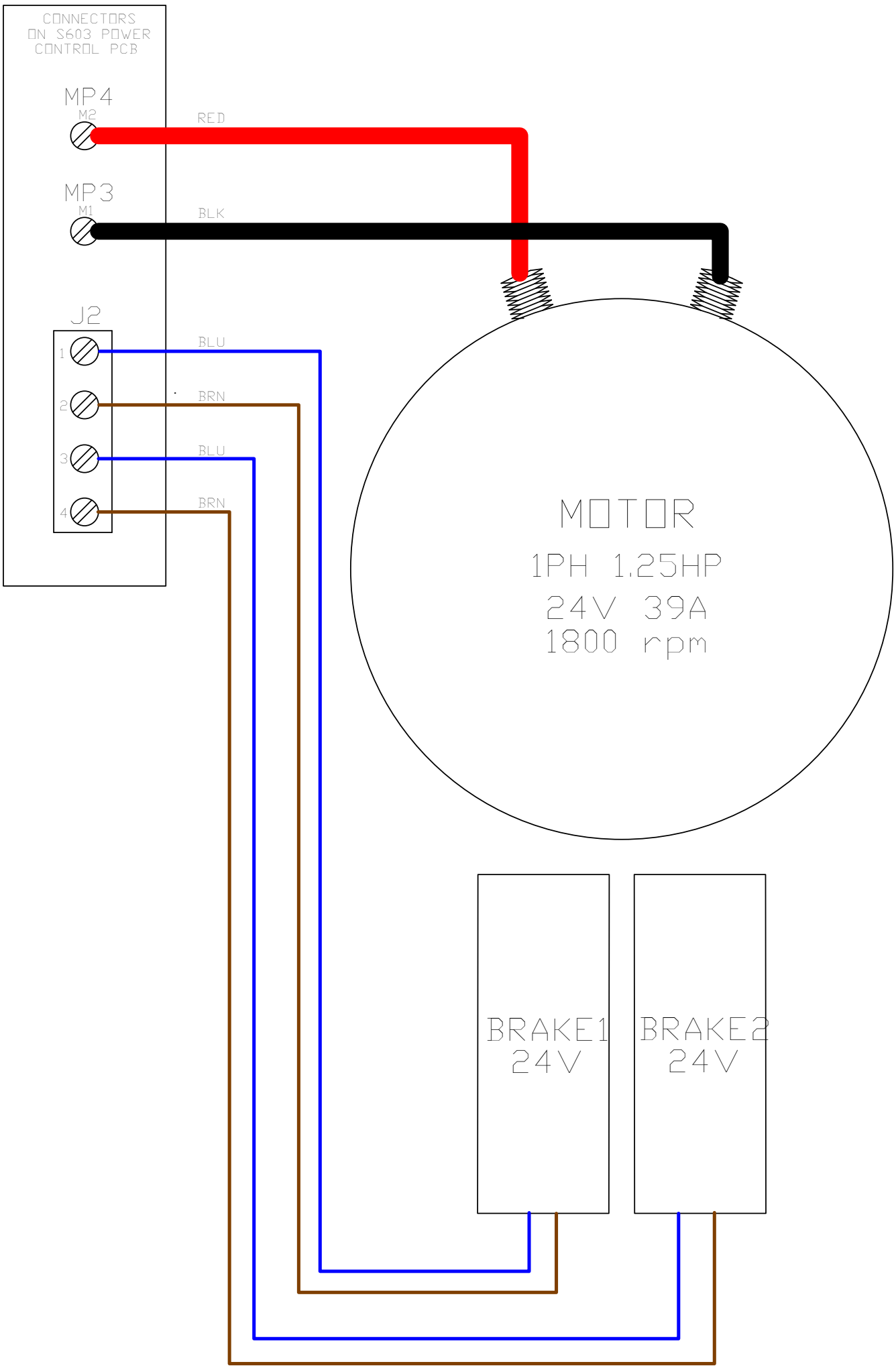
29-m04-2025	Initial release
13-m05-2025	Added Luma Wiring Control on page A-3
01-m07-2025	Revised page A-6

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MOTOR
24V 1.25Hp
35A D/L
12V 4.0 AHr BATTERY
12V 4.0 AHr BATTERY
12V 18.0 AHr BATTERY
12V 18.0 AHr BATTERY
CHARGING CONTACTS (ON RAILS)
2A FUSE
24V BRAKE 1
24V BRAKE 2
35A FUSE
S515-ONE TOUCH ALERT REV V1-03 772452
PHONE
MICROPHONE
SPEAKER
PHONE ANTENNA
S608-COP JUNCTION REV V1-02 772447
LCD DISPLAY 772459
RF RECEIVER
EU-AA28968 WHT
NA-AA28970 BLK
S603-POWER DC REV V1-04 772450
MP4 M2
MP3 M1
MP2 24V
MP1 GND
S600-VERTICAL CONTROL REV V1-02 772446
S609 RELAY INTERFACE REV V1-00 772459
LANDING 5
LANDING 4
LANDING 3
LANDING 2
LANDING 1
MAST 4
MAST 3
MAST 2
MAST 1
LD PRESS.
TC
LU1A/LD1A
LU2A/LD2A
FLOOR 1
FLOOR 2
FLOOR LINER SWITCHES
UNDER PAN SWITCH
DOOR PAN SWITCH
CABIN FAN
CDP PANEL
OPP. PANEL
BACK WALL
CABIN LIGHTS
COURTESY & EMERGENCY LIGHT
FRONT DOOR
REAR GATE LOCK
FRONT GATE LOCK
SAFETY
TRAVELING CABLE
SLACK ROPE 1
REAR ACCESS PANEL 2*
FRONT ACCESS PANEL 1*
*SWITCHES HELD CLOSED BY THE INSTALLATION OF THE PANELS
savaria™
LUMA CONTROLLER CONNECTION DIAGRAM
WIRING CONTROL PCB
DRAWN BY: C. QUIRK
DRAWN DATE: 07/10/24
SHEET 1 OF 1
REVISION: 002
SIZE B
WIRING-LUMA CONTROLLER

MOTOR CONNECTIONS

24V MOTOR CONNECTIONS



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.XXX=±0.01 [.XXX=±0.25]
ANGLES X =±2° =±0.5

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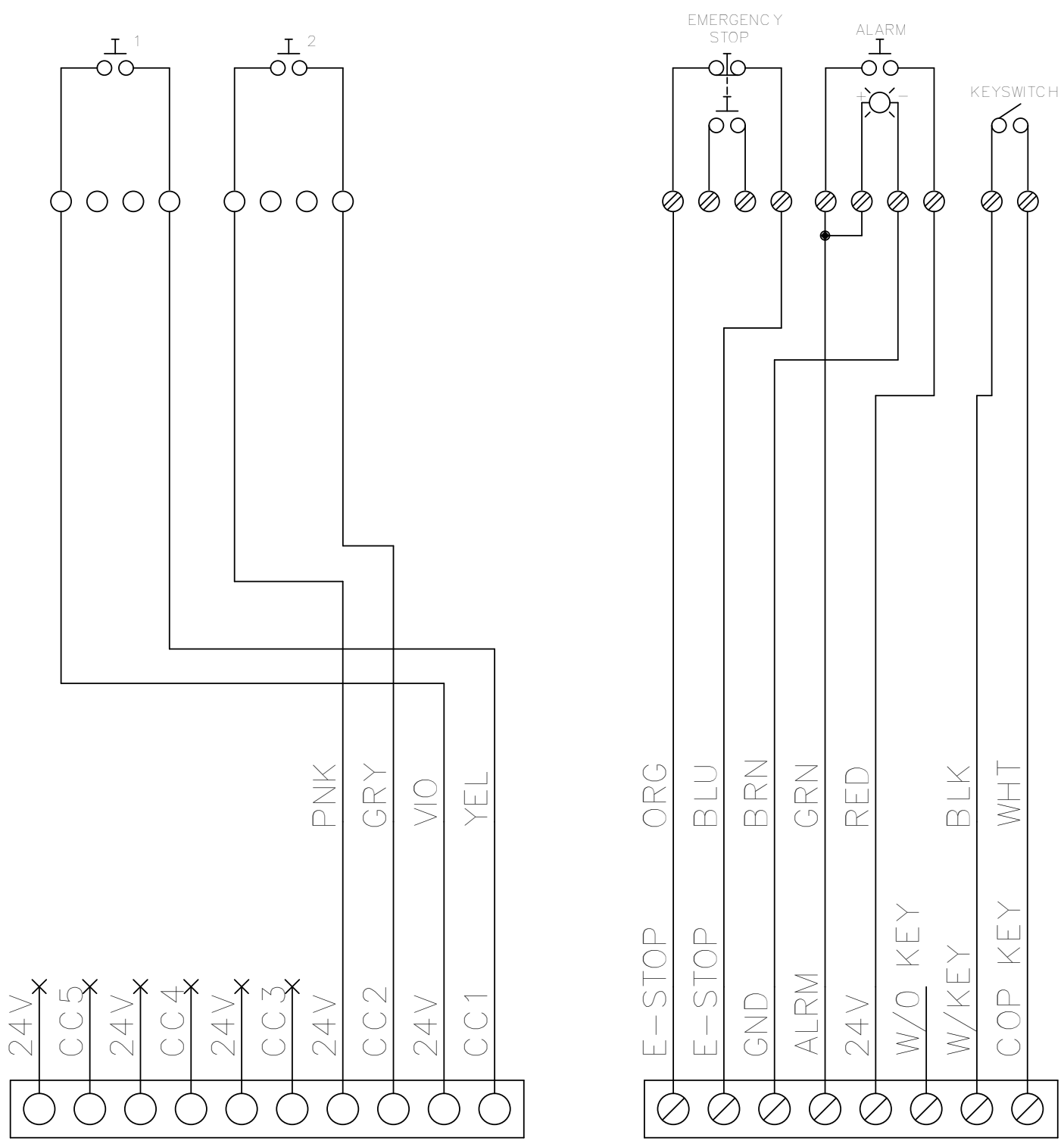
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C. QUIRK	AUG. 14/24	N/A	B

SHEET 1 OF 1

DRAWING NO: LUMA-CONTROL-MTR WIRING

COP CONNECTIONS



FLOOR CONTROLS (T5)

COP (T1)

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FINISH: N/A	SHEET 1 OF 1	DRAWING NO: LUMA-COP WIRING	SIZE B

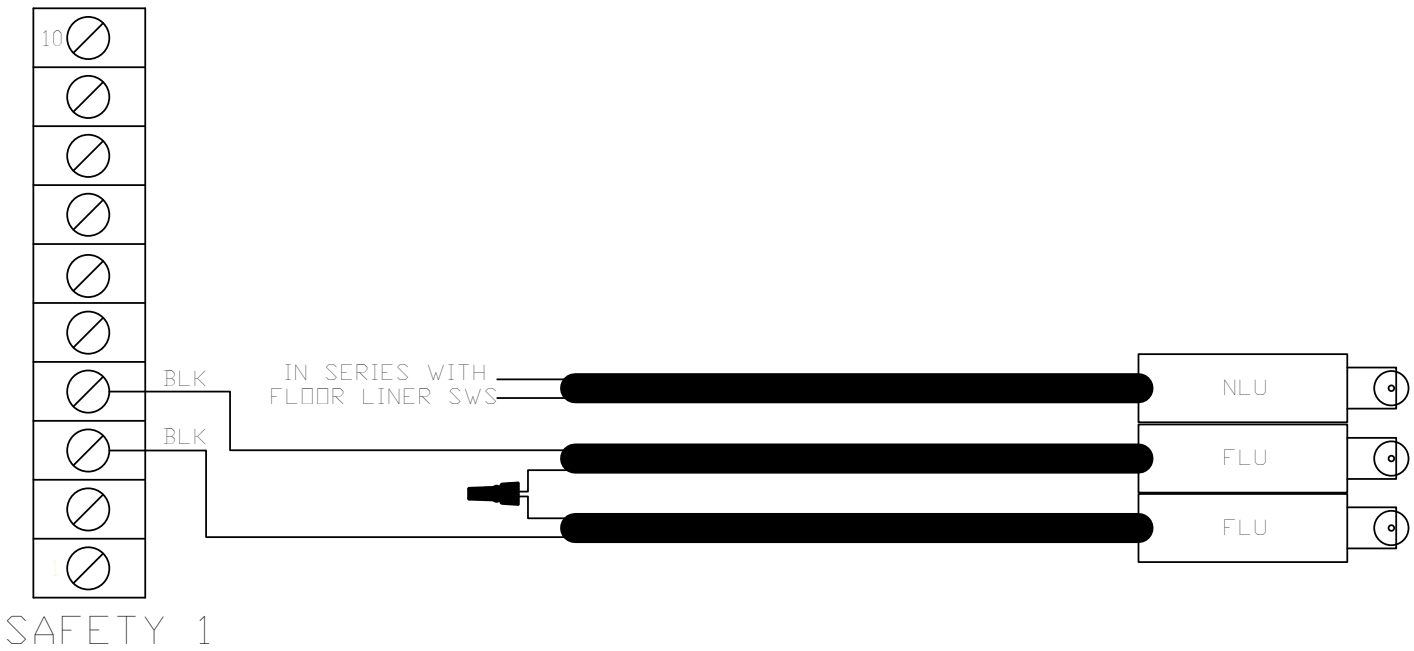
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LUMA CONTROLLER
COP WIRING CONNECTION
DIAGRAM

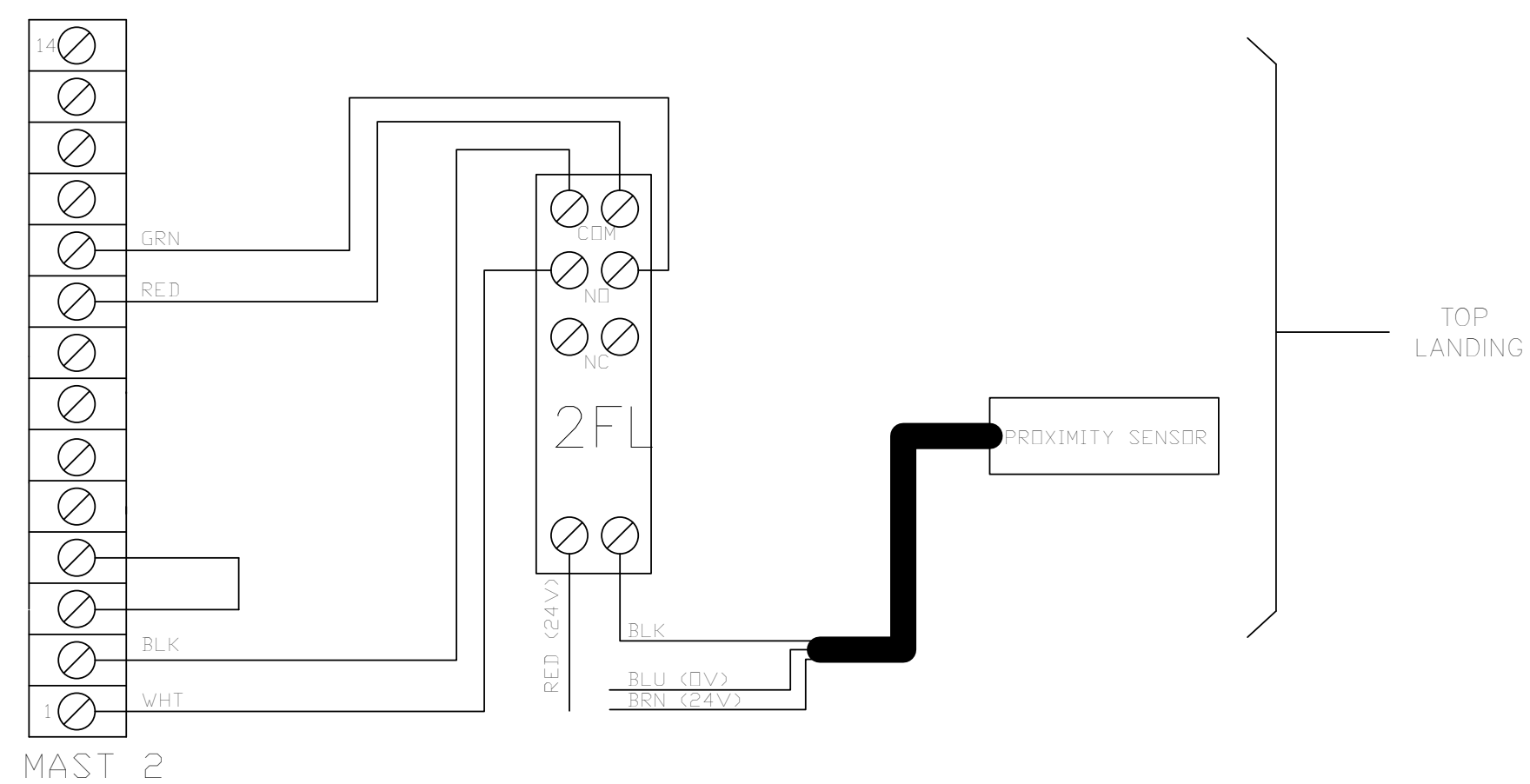
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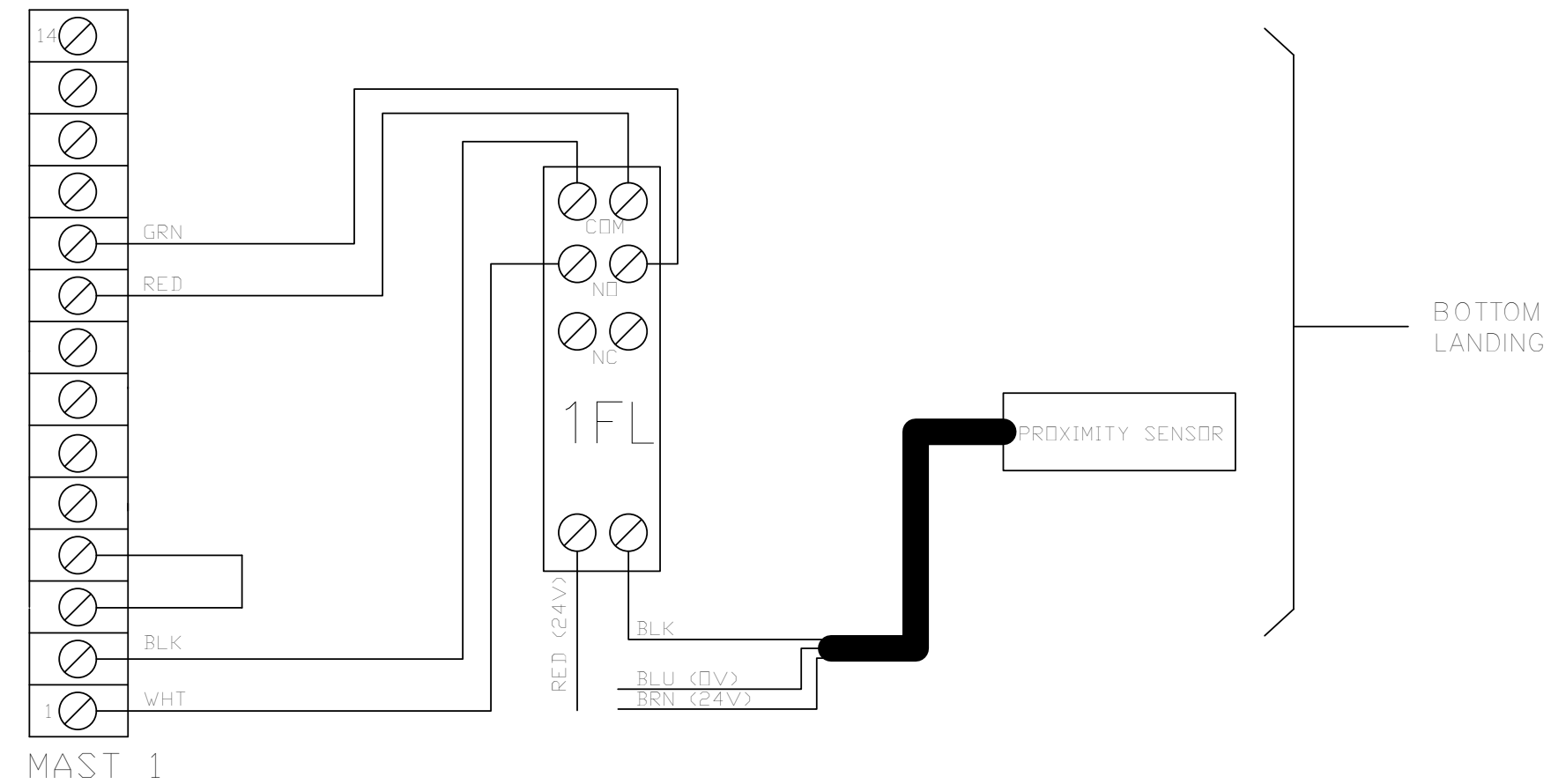
LUMA FLOOR SENSOR WIRING

CONTROLLER CONNECTIONS

SENSORS/SWITCHES ON DRIVE CAGE







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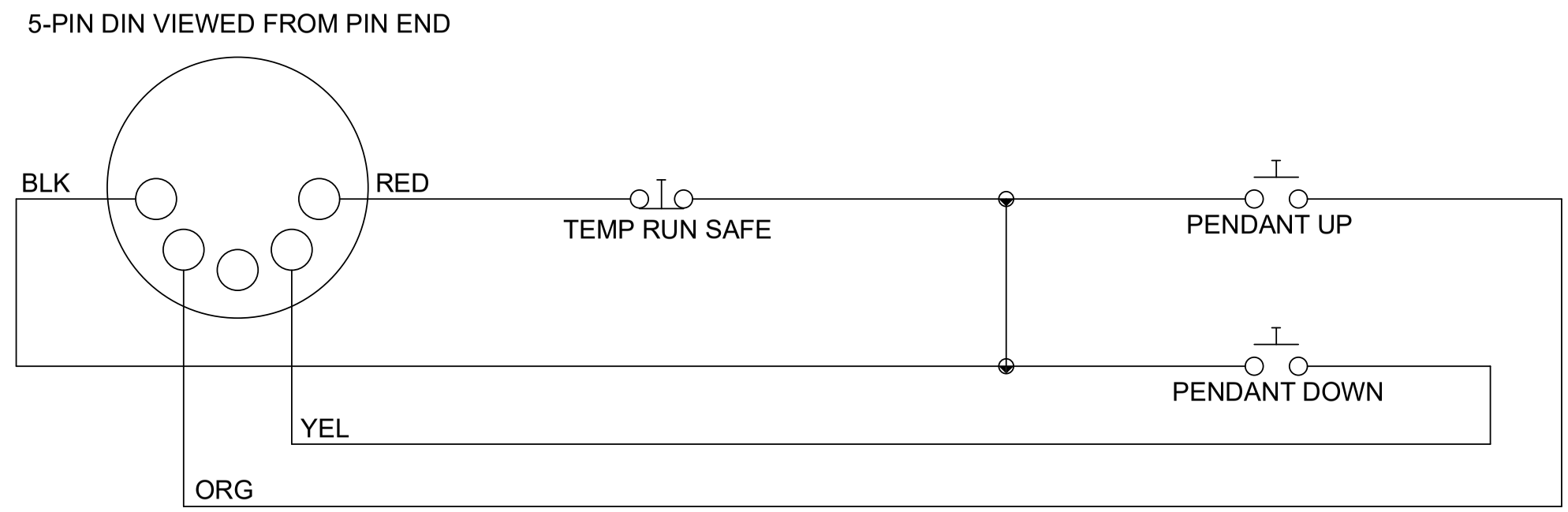
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LUMA CONTROLLER FLOOR SENSORS CONNECTION DIAGRAM	N/A	N/A

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DRAWN BY:	DRAWN DATE:	DRAFTSPERSON:	
C. QUIRK	FEB. 12/24	N/A	
SHEET 1 OF 1	DRAWING NO: LUMA-FLOOR SWITCHES		SIZE B

REVISIONS			
REV	ECO NO.	DATE	REVISED BY
000	C4	08/14/24	1ST RELEASE



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TITLE: LUMA CONTROLLER INSTALL PENDANT CONNECTION DIAGRAM

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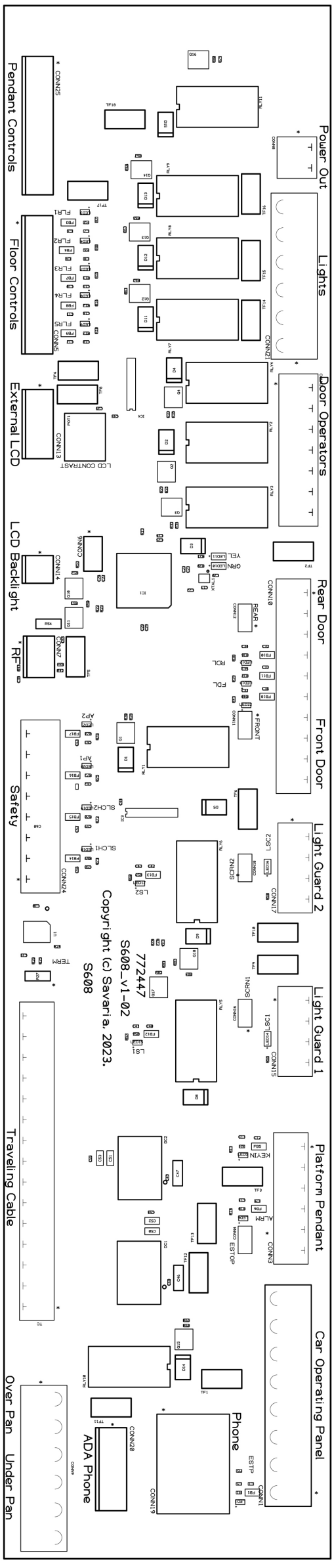
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C. QUIRK	AUG. 14/23	N/A	
SHEET 1 OF 1	DRAWING NO: LUMA-INSTALL PENDANT		SIZE B

COP PCB LAYOUT



LED1–COP E–STOP (1) STATUS
LED3–LANDING 1 COP CALL
LED4–LANDING 2 COP CALL
LED5–PLATFORM PENDANT KEY
LED6–PLATFORM PENDANT ALARM
LED7–LANDING 3 COP CALL
LED8–LANDING 4 COP CALL
LED9–LANDING 5 COP CALL
LED10–CPU GREEN LED
LED11–CPU YELLOW LED
LED12–REAR DOOR LOCK INDICATOR
LED13–FRONT DOOR LOCK INDICATOR
LED14–FRONT LIGHT SCREEN RELAY
LED15–FRONT LIGHT SCREEN INDICATOR
LED16–REAR LIGHT SCREEN RELAY
LED17–REAR LIGHT SCREEN INDICATOR
LED18–SLACK CHAIN 1 STATUS
LED19–SLACK CHAIN 2 STATUS
LED20–ACCESS PANEL 1 STATUS
LED21–ACCESS PANEL 2 STATUS
LED22–PENDANT E–STOP (2) STATUS
CONN9–UNDER/OVER PAN CONN
TC–TRAVELING CABLE CONN
CONN24–SAFETY HARNESS CONN
CONN7–RF MODULE CONN
CONN14–LCD BACKLIGHT CONN
CONN6–PROGRAMMING CONN
POT1–LCD CONTRAST ADJUST
CONN5–FLOOR CONTROLS CONN
CONN25–PENDANT CONTROLS CONN
CONN13–LCD DISPLAY CONN
CONN8–AUXILIARY POWER OUT CONN
CONN21–LIGHTING CONN
CONN2–GATE OPERATORS CONN
CONN10–GATE LOCK CONN
CONN17–REAR LIGHT SCEEEN CONN
CONN15–FRONT LIGHT SCREEN CONN
CONN3–PLATFORM PENDANT CONN
CONN1–COP CONTROLS CONN
CONN19–PHONE JACK
CONN20–HANDS–FREE PHONE CONN

JUMPER SHUNTS

CONN11–FRONT GATE LOCK JUMPER
CONN12–REAR GATE LOCK JUMPER
CONN10–REAR LIGHT SCREEN JUMPER
CONN16–FRONT LIGHT SCREEN JUMPER
CONN4–PENDANT E–STOP SW JUMPER
CONN2–COP KEYSWITCH JUMPER

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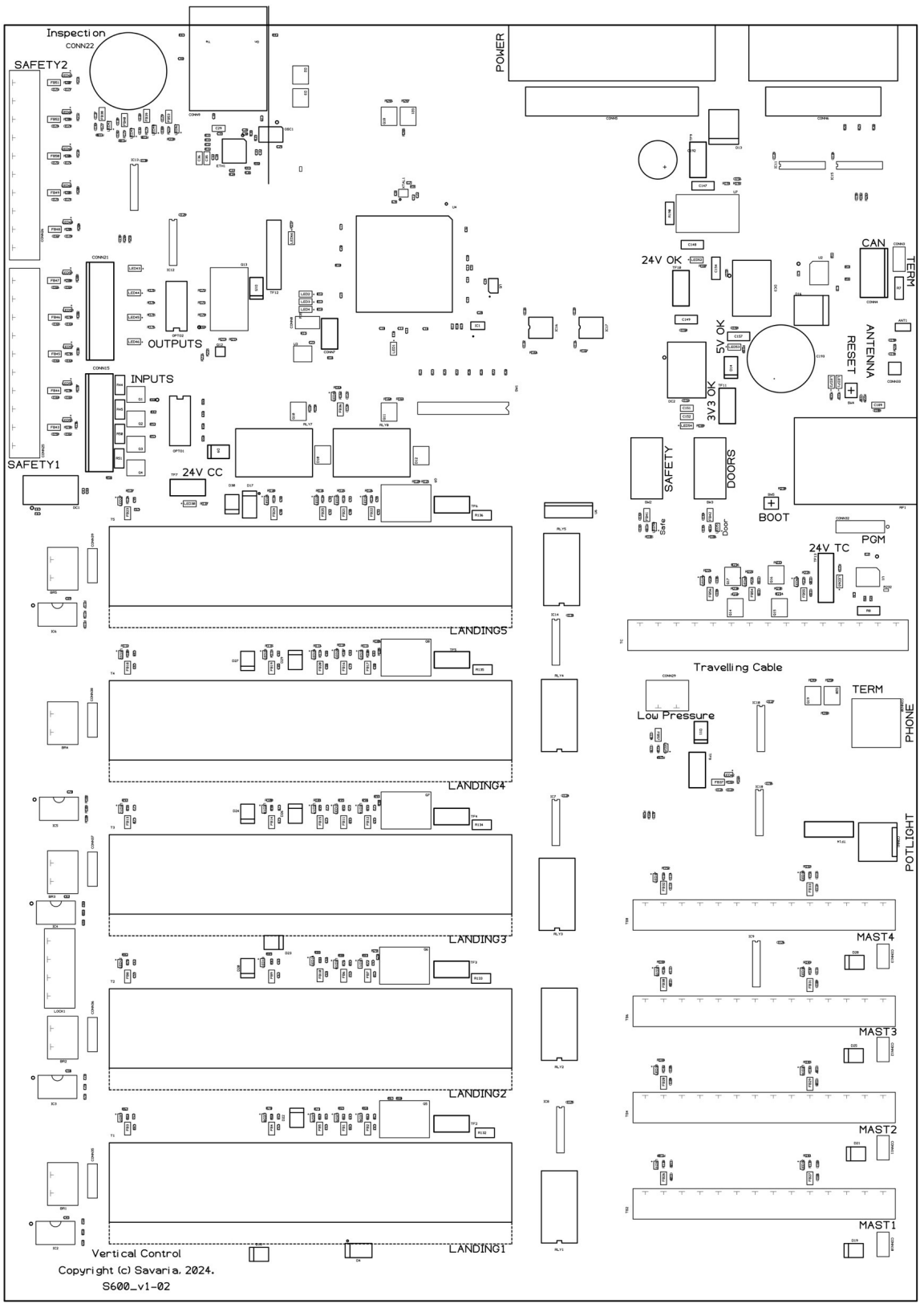
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FINISH:	SHEET 1 OF 1	DRAWING NO:	SIZE
N/A		LUMA–LAYOUT COP	B

TITLE: LUMA CONTROLLER COP PCB INDENTIFY DIAGRAM

MAIN CONTROL PCB LAYOUT



LED1–CPU OK (FLASHING)
LED2–RED CPU
LED3–GREEN CPU
LED4–YELLOW CPU
LED5–LANDING 1 LOCK STATUS
LED6–LANDING 1 LOCK SUPPLY
LED7–LANDING 1 HALL CALL
LED8–LANDING 1 DOOR CLOSED
LED9–LANDING 1 DOOR LOCKED
LED10–LANDING 2 LOCK STATUS
LED11–LANDING 2 LOCK SUPPLY
LED12–LANDING 2 HALL CALL
LED13–LANDING 2 DOOR CLOSED
LED14–LANDING 2 DOOR LOCKED
LED15–LANDING 3 LOCK STATUS
LED16–LANDING 3 LOCK SUPPLY
LED17–LANDING 3 HALL CALL
LED18–LANDING 3 DOOR CLOSED
LED19–LANDING 3 DOOR LOCKED
LED20–LANDING 4 LOCK STATUS
LED21–LANDING 4 LOCK SUPPLY
LED22–LANDING 4 HALL CALL
LED23–LANDING 4 DOOR CLOSED
LED24–LANDING 4 DOOR LOCKED
LED25–LANDING 5 LOCK STATUS
LED26–LANDING 5 LOCK SUPPLY
LED27–LANDING 5 HALL CALL
LED28–LANDING 5 DOOR CLOSED
LED29–LANDING 5 DOOR LOCKED
LED30–HALL CALL COMMON

LED31–MAST 1 LEVEL DOWN
LED32–MAST 1 LEVEL UP
LED33–MAST 2 LEVEL DOWN
LED34–MAST 2 LEVEL UP
LED35–MAST 3 LEVEL DOWN
LED36–MAST 3 LEVEL UP
LED37–MAST 4 LEVEL DOWN
LED38–MAST 4 LEVEL UP
LED41–RELAY 7
LED42–SAFETY CHAIN STATUS
LED43–OUTPUT 1
LED44–OUTPUT 2
LED45–OUTPUT 3
LED46–OUTPUT 4
LED47–PENDANT ENABLED
LED48–PENDANT DOWN
LED49–PENDANT UP
LED50–SAFETY BYPASS OFF
LED51–DOORS BYPASS OFF
LED52–24V SUPPLY OK
LED53–5V SUPPLY OK
LED54–3.3V SUPPLY OK
LED55–SAFETY 1 PIT SWITCH
LED56–SAFETY 1 FINAL LIMIT UP
LED57–SAFETY 1 FINAL LIMIT DN
LED58–SAFETY 1 BACK UP NUT
LED59–SAFETY 1 BELT MONITOR
LED60–SAFETY 2 HAND CRANK

LED61–SAFETY 2 LOAD CELL
LED62–SAFETY 2 SHORING BLOCK
LED63–SAFETY 2 ACCESS PANEL
LED64–SAFETY 2 NEG. PRESSURE
LED65–24V TO CAR OK
LED66–PLATFORM INSPECTION
LED67–PENDANT POWER
LED68–UNDERPAN STATUS
LED69–CAR SAFETY STATUS
LED70–OVERPAN STATUS
LED71–WIFI OK (FLASHING)
LED72–WIFI DEVICE CONNECTED
LANDING 1..5–LANDING HARNESSES
MAST1...4–MAST SWITCH HARNESSES
LOW PRESSURE–NEG. PRESS. HARN.
TRAVELING CABLE–TC HARNESS
SAFETY–SAFETY BYPASS SWITCH
DOORS–DOOR BYPASS SWITCH
INPUTS–PROGRAMMED INPUT HARN
OUTPUTS–PROGRAMMED OUTPUT HARN
SAFETY1&2–SAFETY DEVICES HARNESS
INSPECTION–PENDANT CONNECTOR
DIP SW–CUSTOM OPTIONS
RJ45–INTERNET CONNECTOR
POWER1&2–BOARD INTERCONNECTS
PHONE–TELEPHONE COMPANY CONN.

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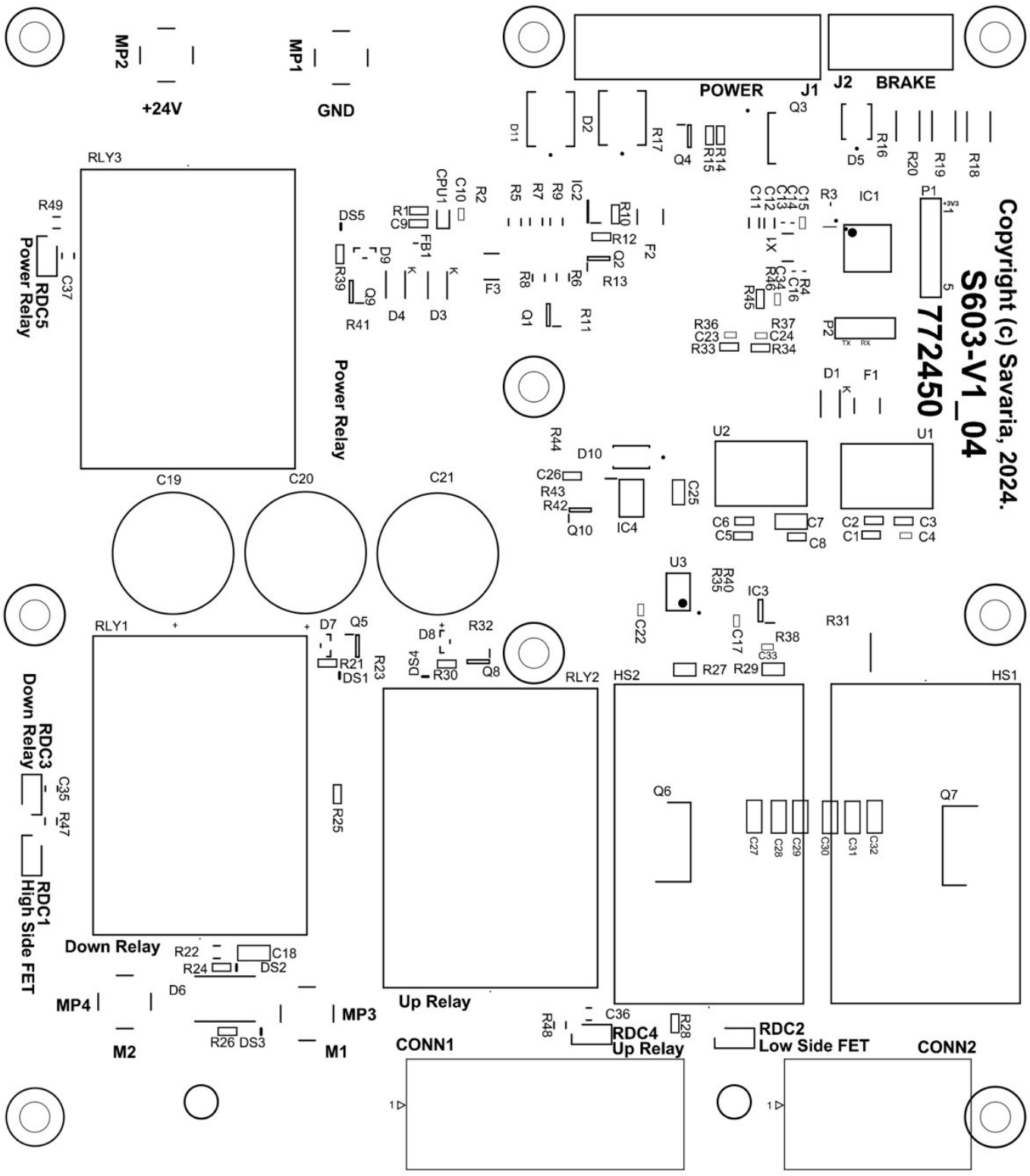
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MATERIAL: N/A	DRAWN BY: C. QUIRK	DRAWN DATE: AUG. 14/24	DRAFTSPERSON: N/A
FINISH: N/A	SHEET 1 OF 1	DRAWING NO: LUMA-LAYOUT MAIN CONTROL	SIZE B

TITLE: LUMA CONTROLLER MAIN CONTROL INDENTIFY DIAGRAM

POWER 24DC PCB LAYOUT



LEDs

CPU1—SAFETY COMPLETE LED
DS1—DOWN RELAY LED
DS2—MOTOR RUN UP LED
DS3—MOTOR RUN DOWN LED
DS4—UP RELAY LED
DS5—POWER RELAY LED

JUMPER SHUNTS

RDC1—HIGH SIDE FET DETECT
RDC2—LOW SIDE FET DETECT
RDC3—DOWN RELAY DETECT
RDC4—UP RELAY DETECT
RDC5—POWER RELAY DETECT

CONNECTORS

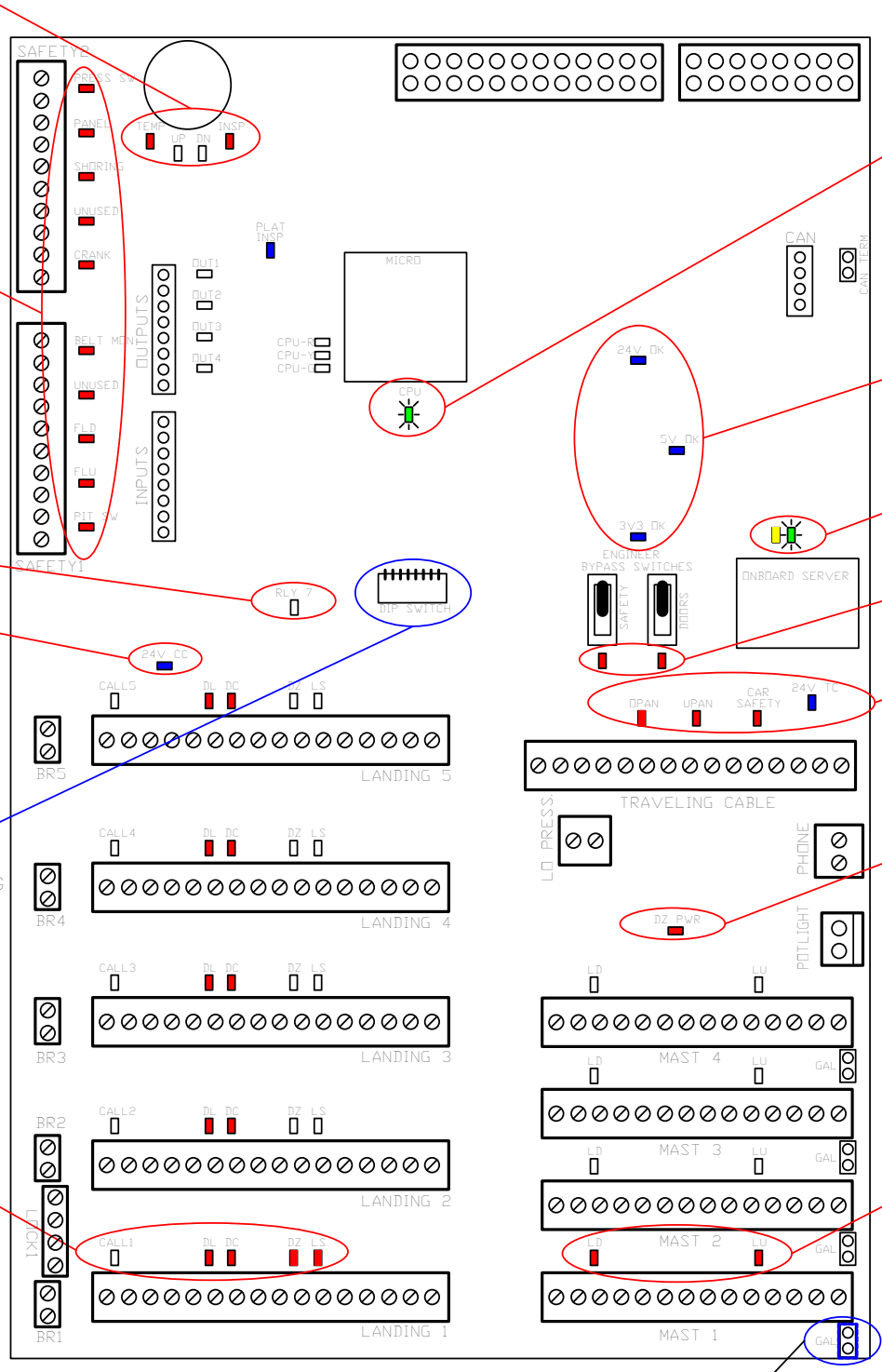
CONN1—BOARD INTERCONNECT
CONN2—BOARD INTERCONNECT
MP1—MOTOR POWER GND
MP2—MOTOR POWER 24V
MP3—BLK MOTOR LEAD
MP4—RED MOTOR LEAD
J1—24VDC IN/OUT
J2—BRAKES OUT
P1—PROGRAMMING CONNECTOR

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LED LOCATIONS–MAIN CONTROL PCB

(LEDs SHOWN FOR LIFT AT FLOOR 1, READY TO RUN)



INSPECTION PEND. INDICATORS
- TEMP AND INSP MUST BE PRESENT IN ORDER TO RUN, SUPPLIED EITHER BY THE PENDANT OR RUN DONGLE
- TEMP EXTINGUISHES IF INSTALL PENDANT E–STOP IS ACTIVATED

SAFETY CIRC. DEVICE INDICATORS
- ALL LEDs MUST BE PRESENT TO RUN

LOCK ENERGIZED INDICATOR

CAR CALL SUPPLY INDICATOR

DIP SWITCH SELECTOR
- SW–8 ON ALLOWS FOR ENGINEERING MODE WITHOUT THE COP PCB PRESENT

HALL LANDING INDICATORS
- CALL ILLUMINATES WHILE BUTTON IS BEING PRESSED
- DL=DOOR LOCKED
- DC=DOOR CLOSED
- DZ=DOOR ZONE
- LS=LOCK SUPPLY (OFF=ENERGIZED)

MICROPROCESSOR INDICATOR
- FLASHING GREEN CONFIRMS OPERATION

PCB POWER SUPPLY INDICATORS

ON–BOARD SERVER INDICATOR
- FLASHING GREEN CONFIRMS OPERATION

BYPASS SWITCH INDICATORS
- ON=NORMAL (CIRCUIT NOT BYPASSED)
- OFF=BYPASSED
- EITHER SW OFF FORCES ENGINEER MODE

PLATFORM INDICATORS
- 24V TC SUPPLIES THE PLATFORM
- CAR SAFETY SHOWS COMPLETE BACK FROM PLATFORM
- UPAN OR OPAN SHOW COMPLETE WHEN A DIRECTION IS SELECTED

DOOR SAFETY SUPPLY INDICATOR

MAST SWITCH INDICATORS
- LD, LU, AND DZ SWITCHES ARE REQUIRED TO STOP AT LANDING AND OPEN/UNLOCK DOOR/GATE

GAL LOCK JUMPERS
- ENABLED = INSTALLED ON PINS 1 AND 2
- DISABLED = STOWED ON PIN 1 ONLY

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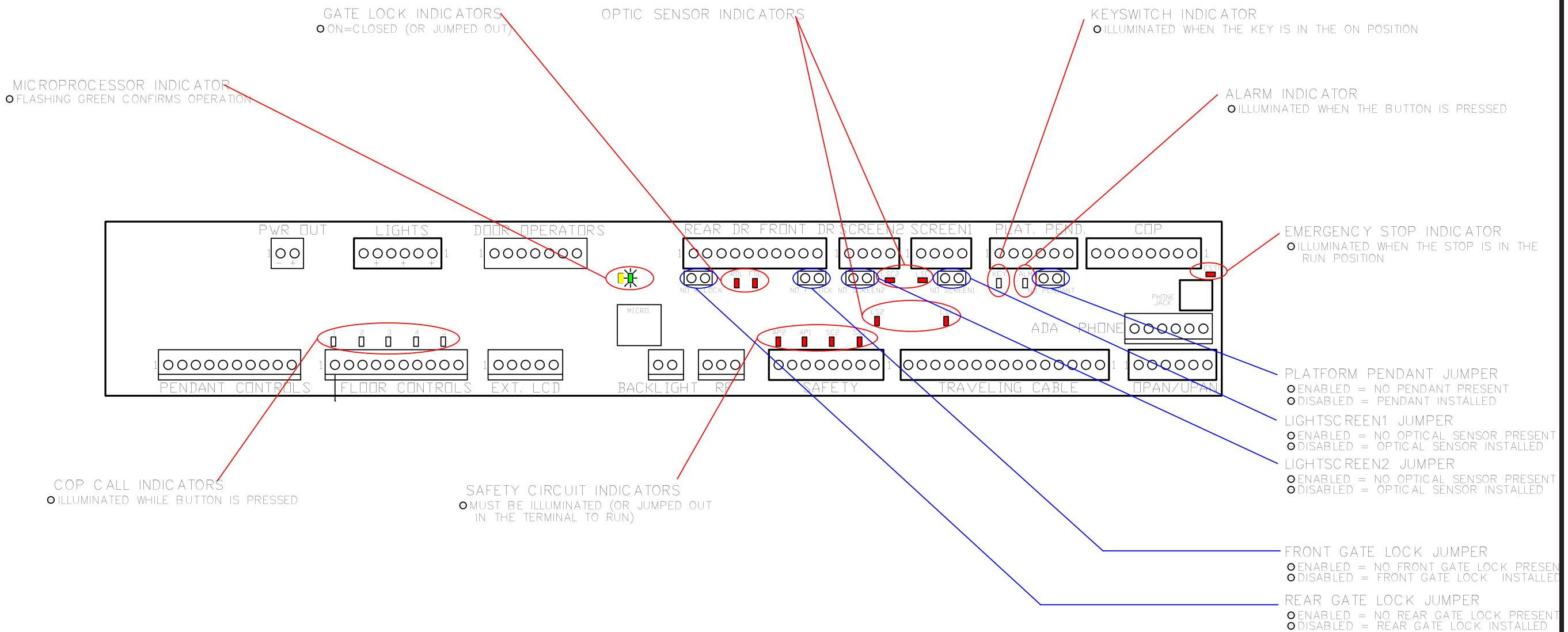
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FINISH: N/A	SHEET 1 OF 1	DRAWING NO: LUMA–LED LOCATIONS–CONTROL	SIZE B

TITLE: LUMA CONTROLLER MAIN PCB LED/JUMPER LOCATIONS DIAGRAM

LED LOCATIONS–COP PCB

(LEDs SHOWN FOR LIFT AT FLOOR 1, READY TO RUN)



NOTE: ENABLED = JUMPER INSTALLED
DISABLED = JUMPER REMOVED

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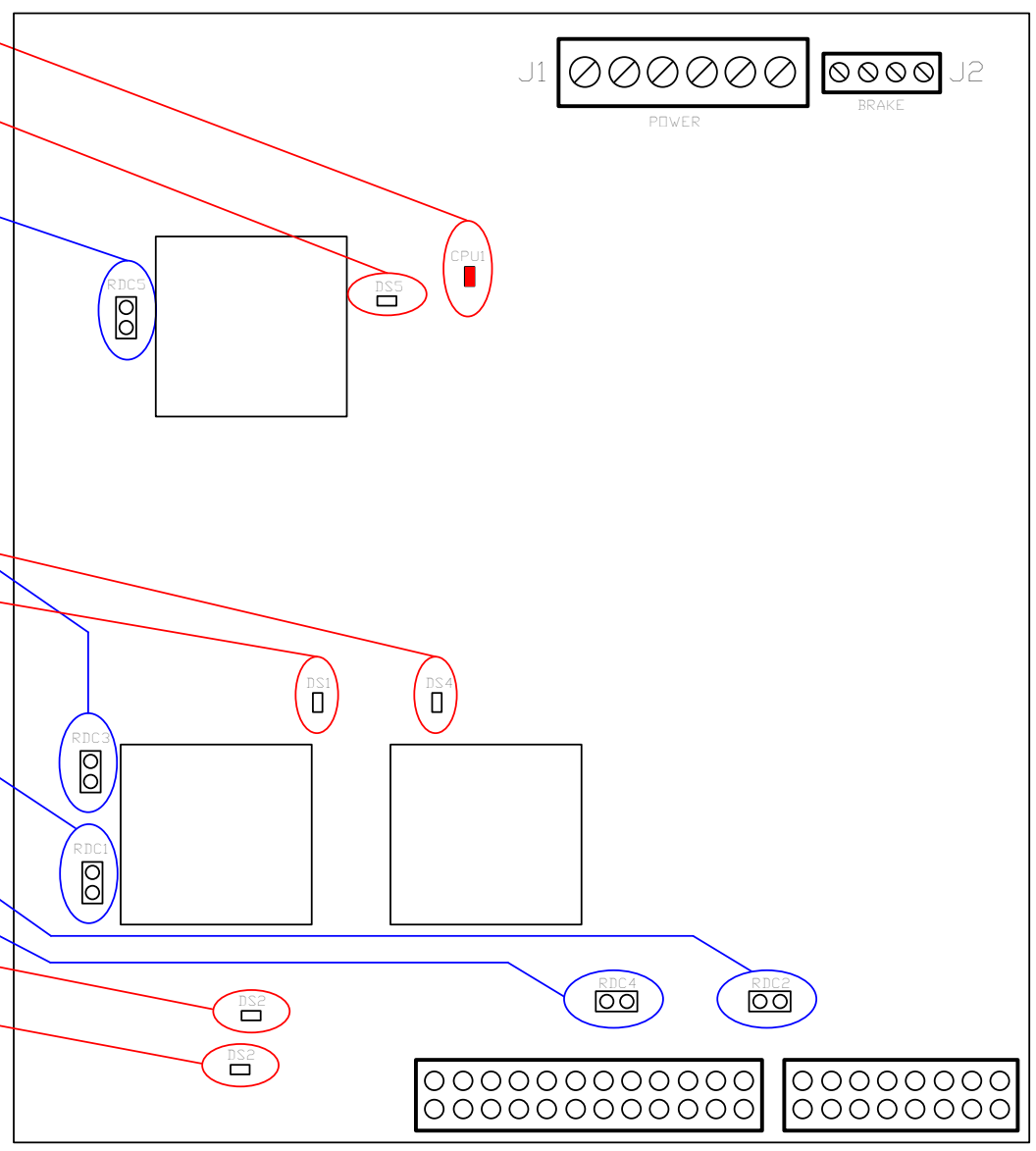
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DRAWN BY:	DRAWN DATE:	DRAFTSPERSON:	
C. QUIRK	05/30/24		
MATERIAL: N/A			SIZE: B
FINISH: N/A	SHEET 1 OF 1	DRAWING NO: LUMA-LED LOCATIONS-COP	

LED LOCATIONS–POWER DC PCB

(LEDs SHOWN FOR LIFT AT FLOOR, READY TO RUN)

- SAFETY STRING COMPLETE INDICATOR
  - LED MUST BE ILLUMINATED IN ORDER TO RUN
- RLY3 (PWR) INDICATOR
  - LED ILLUMINATES WHEN RELAY IS ENERGIZED
- RDC5 REDUNDANCY TEST JUMPER
  - ENABLED = INSTALLED ON PINS 1 AND 2
  - DISBALED = STOWED ON PIN 1 (OR NOT INSTALLED)
- RDC3 REDUNDANCY TEST JUMPER
  - ENABLED = INSTALLED ON PINS 1 AND 2
  - DISBALED = STOWED ON PIN 1 (OR NOT INSTALLED)
- RLY2 (UP) INDICATOR
  - LED ILLUMINATES WHEN RELAY IS ENERGIZED
- RLY1 (DN) INDICATOR
  - LED ILLUMINATES WHEN RELAY IS ENERGIZED
- RDC1 REDUNDANCY TEST JUMPER
  - ENABLED = INSTALLED ON PINS 1 AND 2
  - DISBALED = STOWED ON PIN 1 (OR NOT INSTALLED)
- RDC2 REDUNDANCY TEST JUMPER
  - ENABLED = INSTALLED ON PINS 1 AND 2
  - DISBALED = STOWED ON PIN 1 (OR NOT INSTALLED)
- RDC4 REDUNDANCY TEST JUMPER
  - ENABLED = INSTALLED ON PINS 1 AND 2
  - DISBALED = STOWED ON PIN 1 (OR NOT INSTALLED)
- DS2 (FORWARD) INDICATOR
  - LED ILLUMINATES WHEN MOTOR IS TURNING FORWARD
- DS3 (REVERSE) INDICATOR
  - LED ILLUMINATES WHEN MOTOR IS TURNING REVERSE



- NOTE: ONLY INSTALL ONE REDUNDANCY TEST JUMPER AT A TIME, AS TESTS ARE PERFORMED

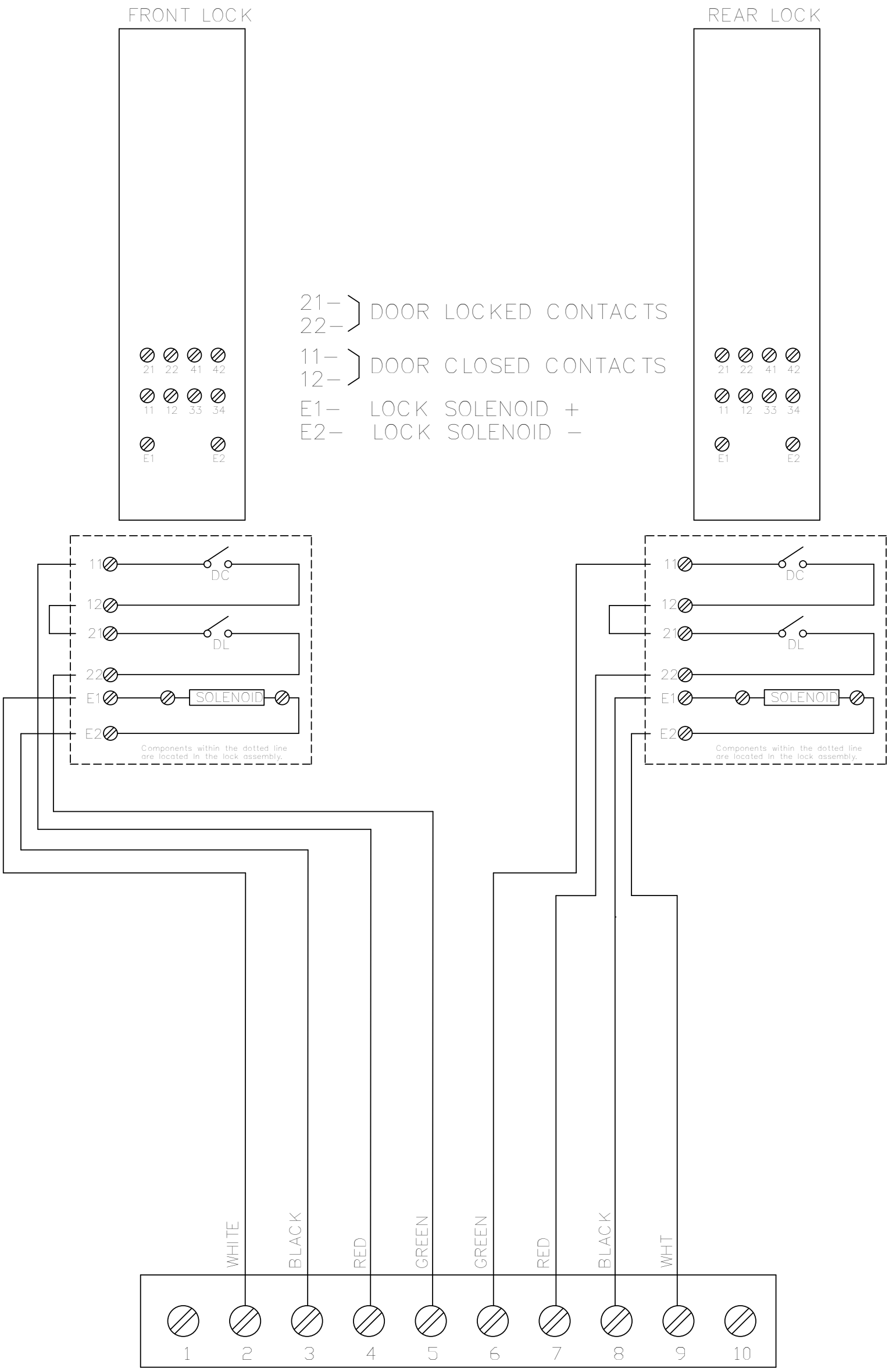
- NOTE: ENABLED = JUMPER INSTALLED
  DISABLED = JUMPER REMOVED

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UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. ALL DIMENSIONS IN [] ARE METRIC TOLERANCES ON: .X=±0.1 [.X=±3] .XX=±0.03 [.XX=±0.8] .XXX=±0.01 [.XXX=±0.25] ANGLES X =±2X =±0.5	DO NOT SCALE DRAWING	REMOVE ALL BURRS & SHARP CORNERS		
	DESIGNED BY:	DESIGN DATE:	SCALE: N/A	REVISION: 000
MATERIAL: N/A	DRAWN BY: C. QUIRK	DRAWN DATE: AUG. 14/24	DRAFTSPERSON:	
FINISH: N/A	SHEET 1 OF 1	DRAWING NO: LUMA–LED LOCATIONS–POWER		SIZE B

TITLE: LUMA CONTROLLER POWER PCB LED/JUMPER LOCATIONS DIAGRAM

PLATFORM LOCK CONNECTIONS
(WR500 LOCKS)



PLATFORM LOCK CONNECTOR (T10)

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.X=±0.1 [.X=±3]
.XX=±0.03 [.XX=±0.8]
.XXX=±0.01 [.XXX=±0.25]
ANGLES X =±2X =±0.5

DO NOT SCALE DRAWING | REMOVE ALL BURRS & SHARP CORNERS

DESIGNED BY:	DESIGN DATE:	SCALE:	REVISION:
		N/A	000

MATERIAL:	DRAWN BY:	DRAWN DATE:	DRAFTSPERSON:
N/A	C. QUIRK	AUG. 14/24	N/A

FINISH:	SHEET 1 OF 1	DRAWING NO:	SIZE
N/A		LUMA–PLATFORM–WR500	B

TITLE: LUMA CONTROLLER WR500 PLATFORM CONNECTION DIAGRAM

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