savaria®

VUELIFT
MICRO-6 CONTROLLER
ELECTRICAL SCHEMATICS

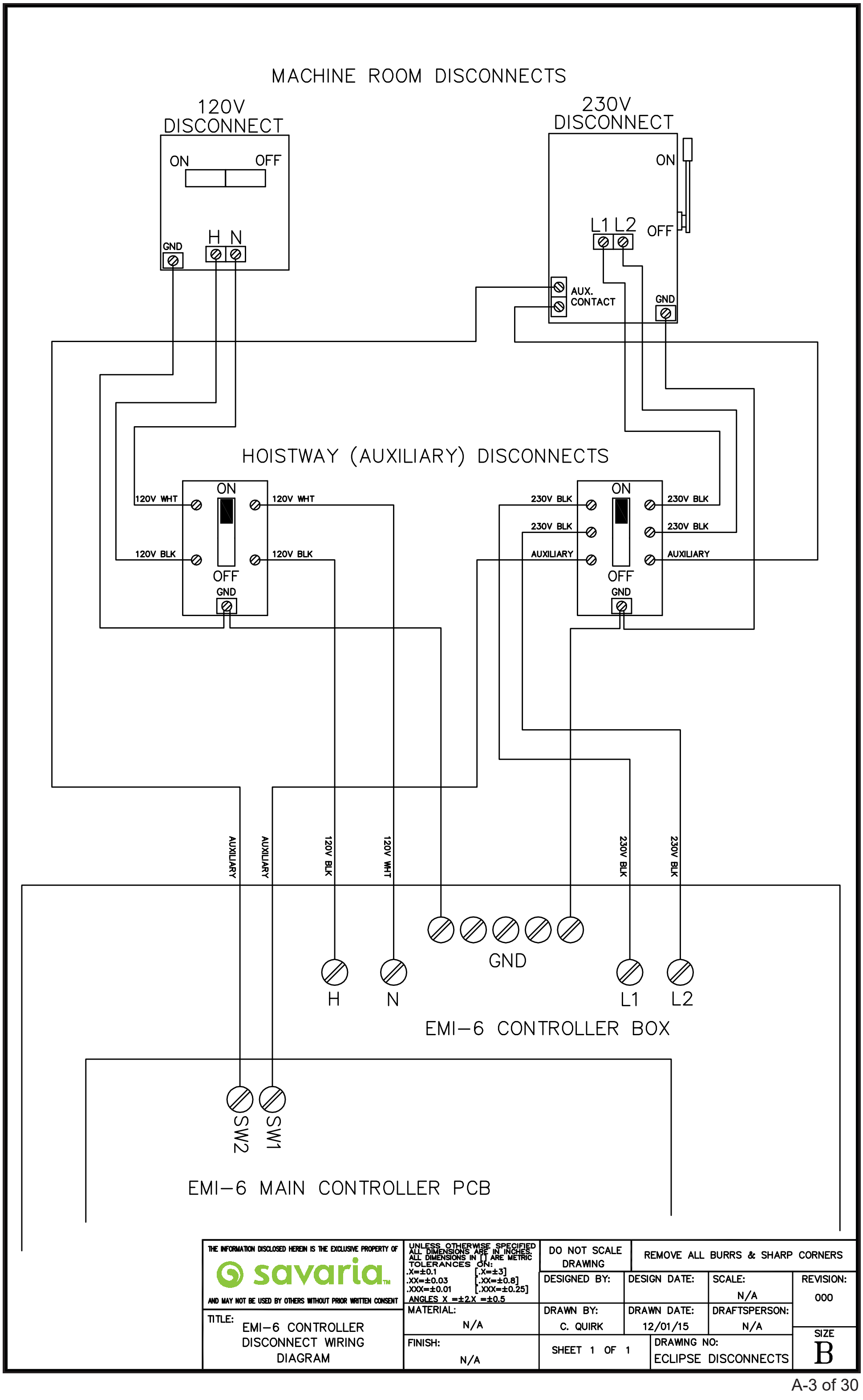
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REVISION HISTORY

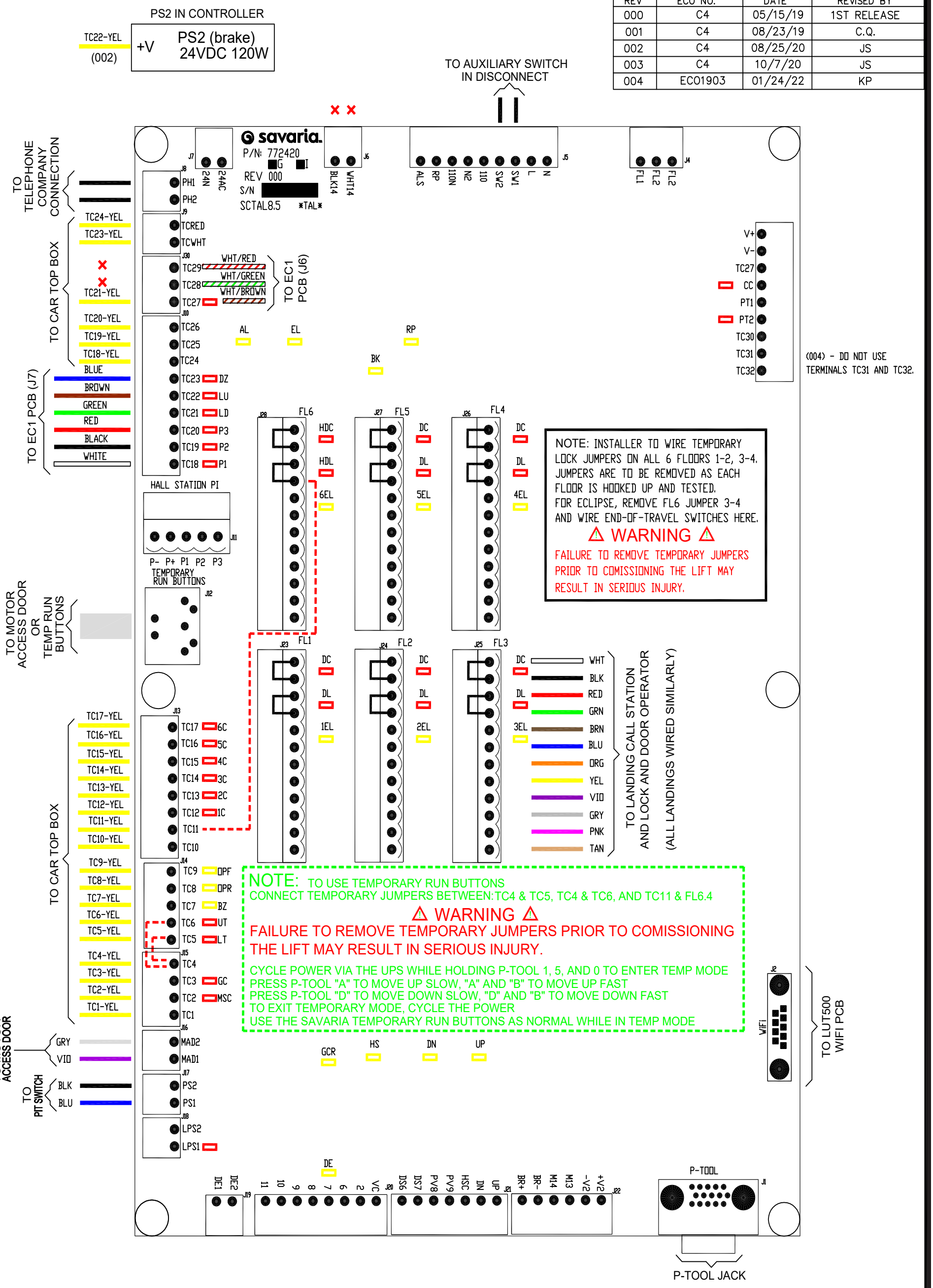
11-m11-2019	Initial release
13-m12-2019	Revised drawings on pages A-14 and A-15
27-m01-2020	Added new drawing on page A-25 (traveling cable - external harness round)
24-m02-2020	Revised car top drawings on pages A-5 and A-6
28-m02-2020	Revised drawings on pages A-4, A-5 and A-6; added new drawing on page A-26
30-m04-2020	Added new drawing on page A-12 (gate switch series hook-up)
26-m08-2020	Revised drawings on pages A-4, A-5 and A-6; added new drawings on pages A-15 and A-21
23-m03-2022	Revised drawings on all schematic pages to reflect changes in the TAL8.5 mainboard
07-m06-2022	Revised drawing for schematics on pages A-4, A-20 and A-27. PCB part number 772401 updated to 772420
08-m06-2022	Revised drawing for schematic on pages A-14
04-m07-2022	Updated page numbers
26-m07-2022	Added Controller Motor Diagram on page A-13

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		DRAWN BY: C. QUIRK	DRAWN DATE: 12/01/15	DRAFTSPERSON: N/A
	FINISH: N/A	SHEET 1 OF 1	DRAWING NO: ECLIPSE DISCONNECTS	SIZE B

REVISIONS			
REV	ECO NO.	DATE	REVISED BY
000	C4	05/15/19	1ST RELEASE
001	C4	08/23/19	C.Q.
002	C4	08/25/20	JS
003	C4	10/7/20	JS
004	ECO1903	01/24/22	KP



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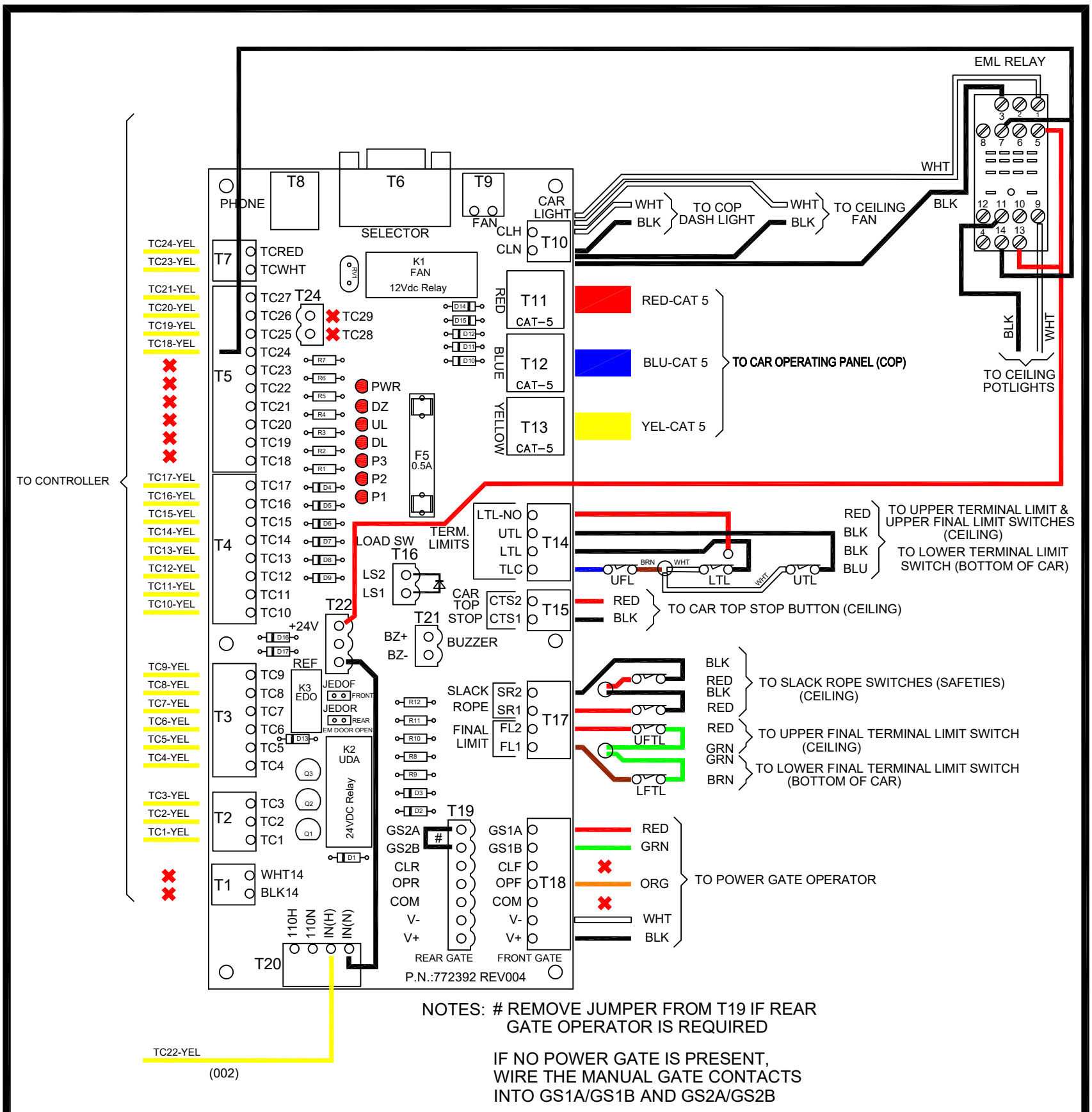
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TITLE: VUELIFT-6 CONTROLLER MAIN CONTROLLER CONNECTION DIAGRAM

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MATERIAL: N/A	DRAWN BY: C. QUIRK	DRAWN DATE: 05/15/19	DRAFTSPERSON: N/A
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001	C4	02/11/20	C.Q.
002	C4	08/25/20	JS



NOTES: # REMOVE JUMPER FROM T19 IF REAR GATE OPERATOR IS REQUIRED

IF NO POWER GATE IS PRESENT, WIRE THE MANUAL GATE CONTACTS INTO GS1A/GS1B AND GS2A/GS2B

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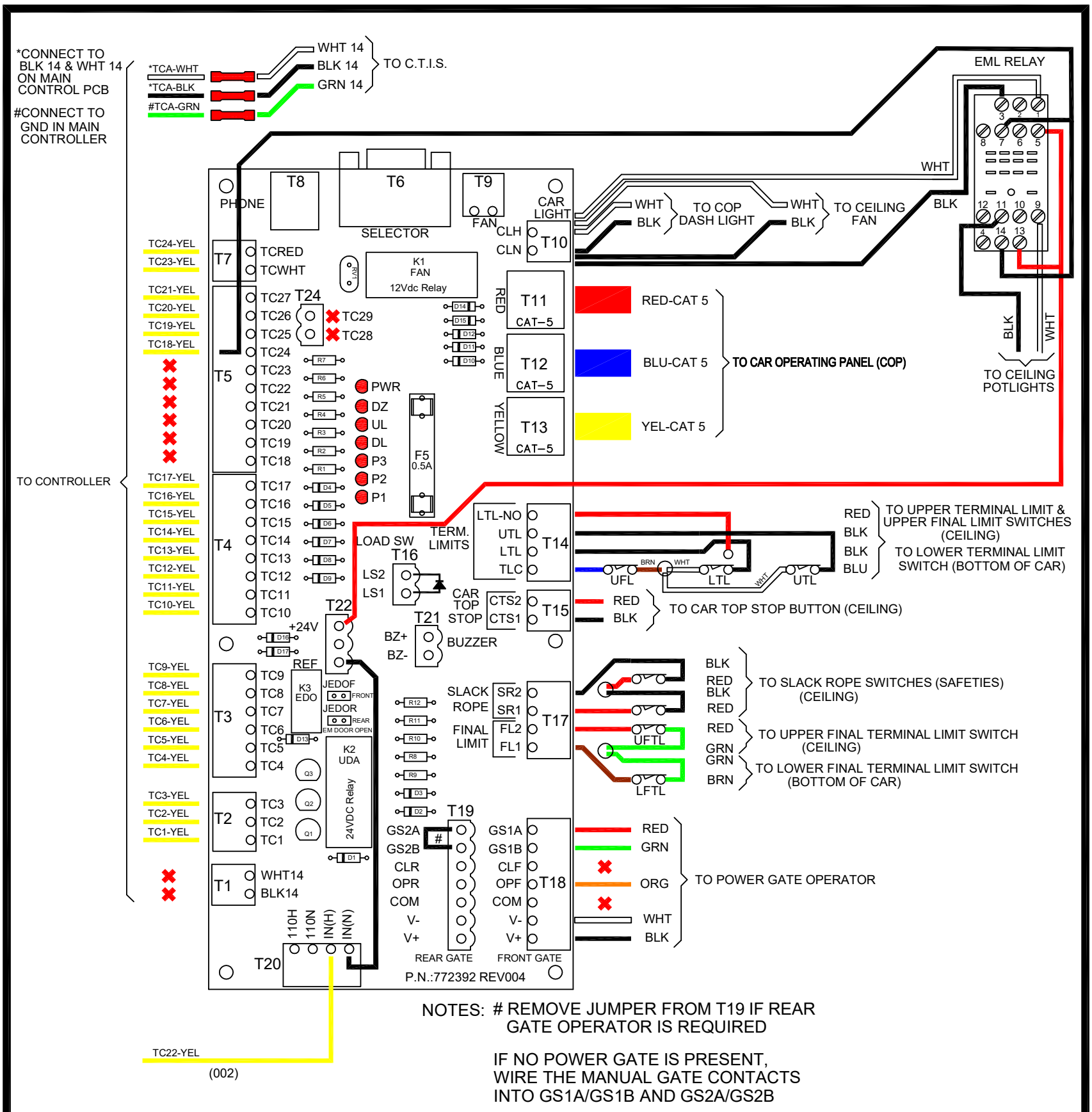
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MATERIAL: N/A			SIZE B
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TITLE: VUELIFT-6 CONTROLLER CAR TOP BOX CONNECTION DIAGRAM

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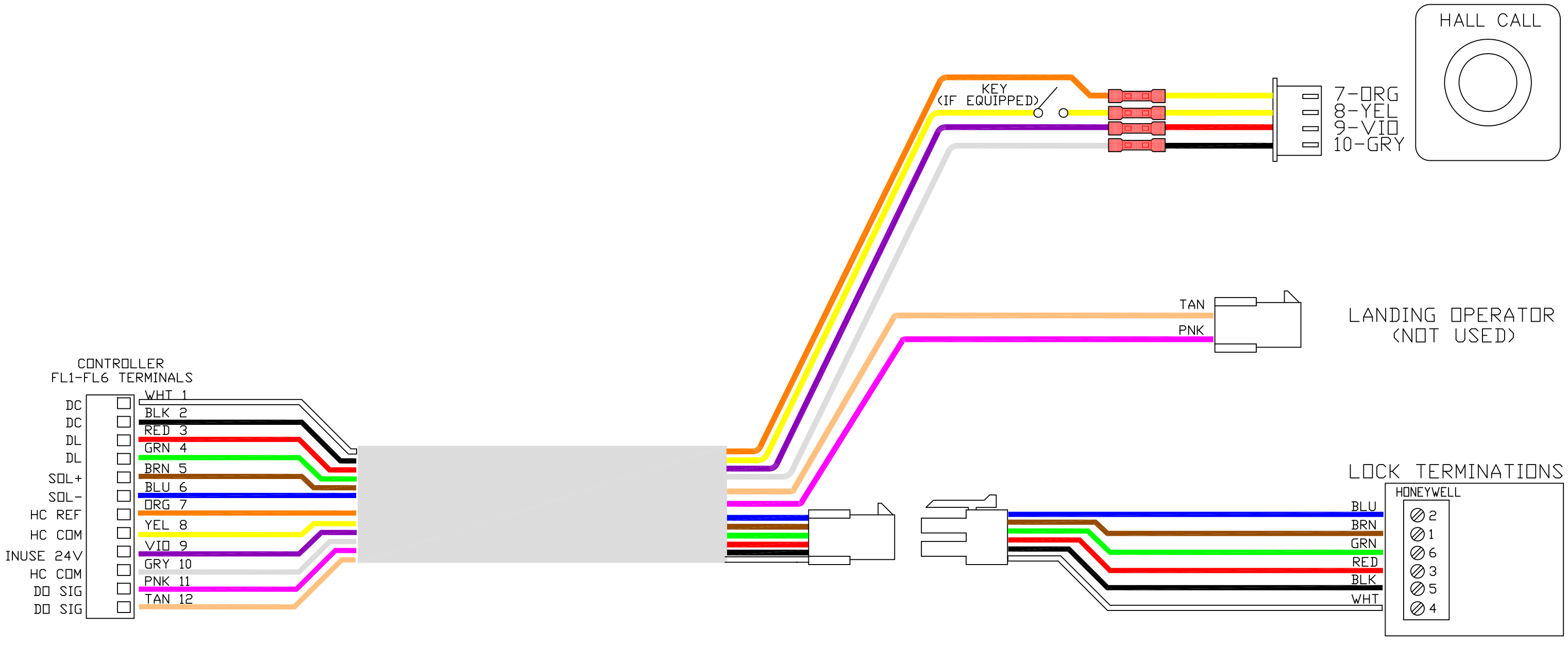
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TITLE: VUELIFT–6 CONTROLLER CAR TOP BOX CONNECTION DIAGRAM

REVISIONS			
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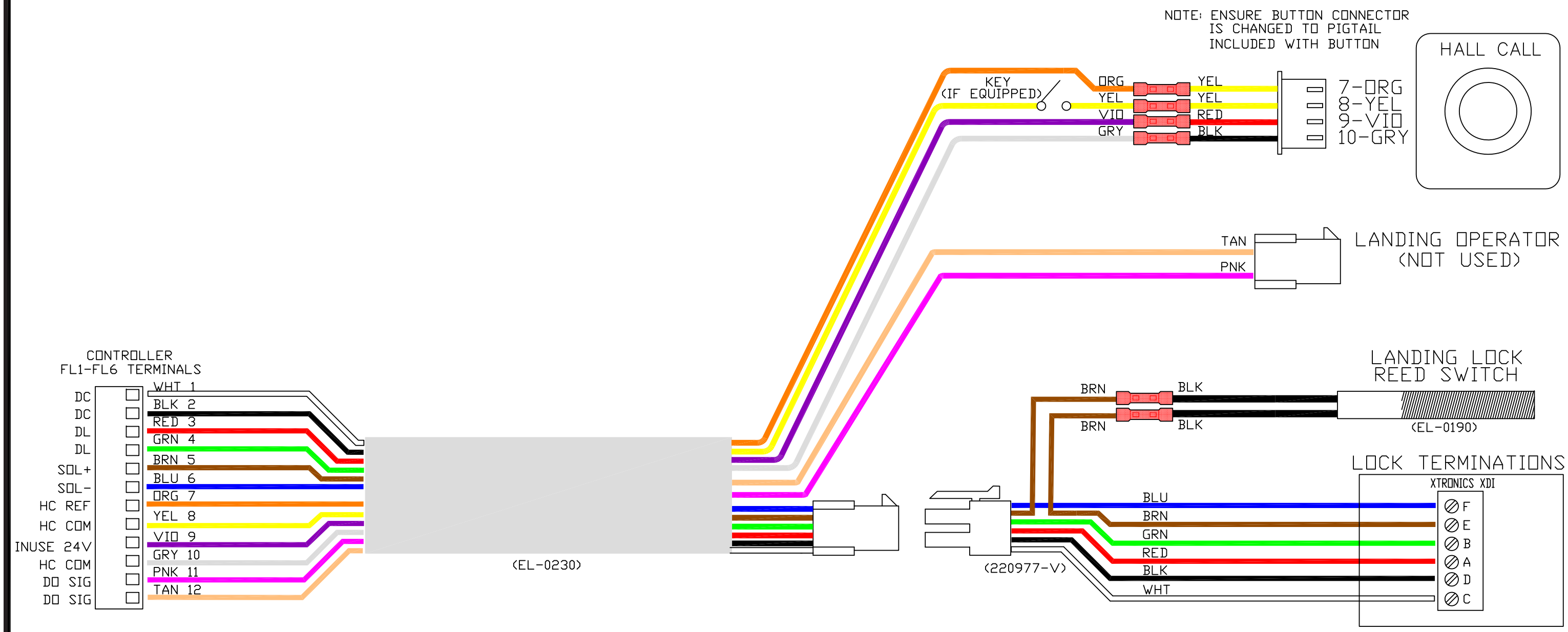
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001	C4	09/23/19	C. Q.



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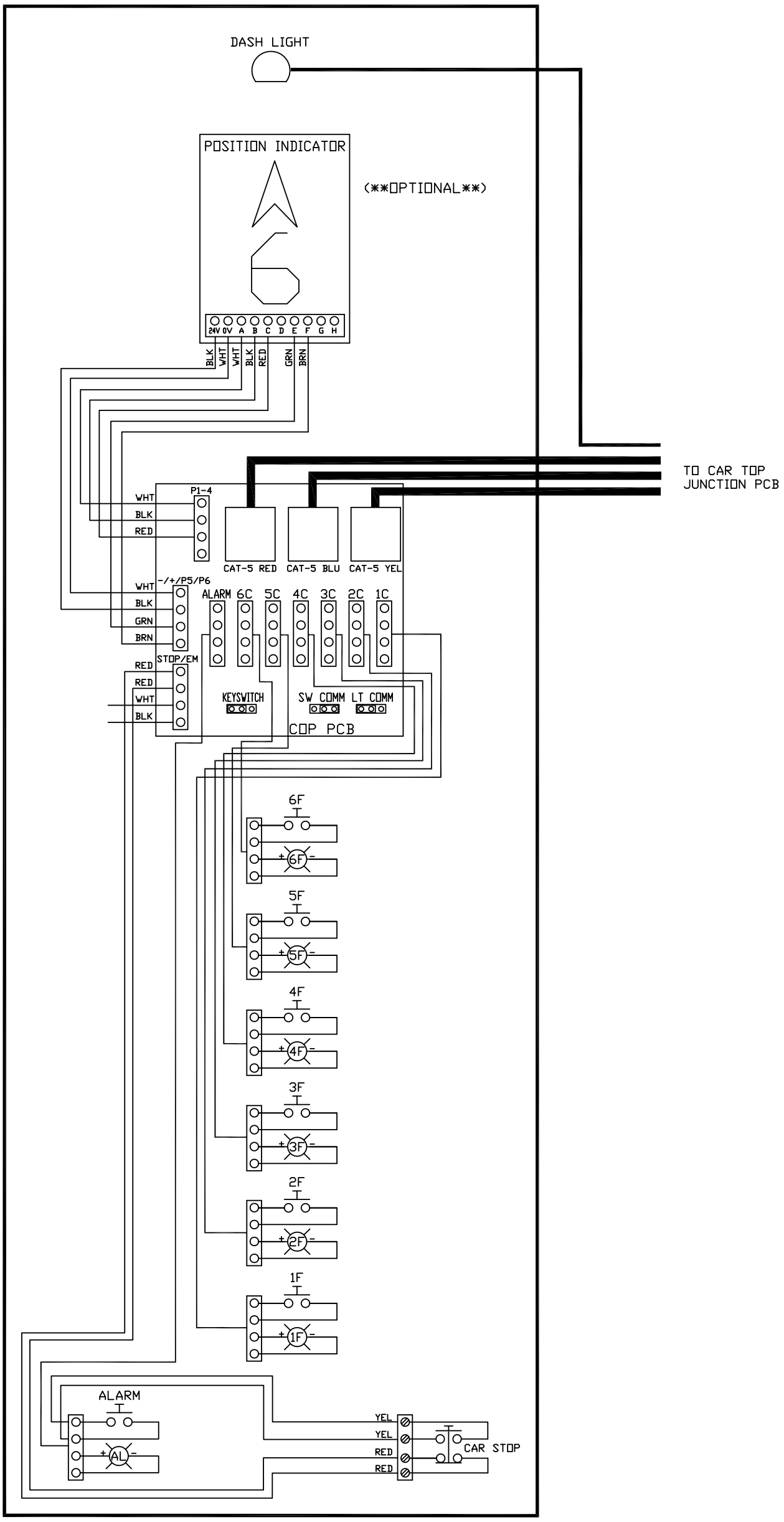
Controller PCB (P/N 772420) LEDs and Switches

LED	Description
DZ	Selector door zone indicator
UL	Selector up levelling indicator
DL	Selector down levelling indicator
P3	Selector P3 positioning (binary) indicator
P2	Selector P2 positioning (binary) indicator
P1	Selector P1 positioning (binary) indicator
AL	Cab lighting indicator
EL	Emergency light indicator
RP	Run pilot indicator
DC2	Fuse 2 status indicator
DC3	Fuse 3 status indicator
DC4	Fuse 4 status indicator
PT2	Overload/VFD status input indicator
CC	Motor auxiliary input indicator
TC27	NLD reset confirmation indicator
1EL - 6EL	Electric lock output indicators
DC	Doors closed contacts input indicator
DL	Doors locked contacts input indicator
HDC	All doors closed input indicator
HDL	All doors locked input indicator
1C	Floor 1 call input indicator
2C	Floor 2 call input indicator
3C	Floor 3 call input indicator
4C	Floor 4 call input indicator
5C	Floor 5 call input indicator
6C	Floor 6 call input indicator
OPF	Door open front input indicator
OPR	Door open rear input indicator
BZ	Buzzer output indicator
UT	Normal limit up input indicator
LT	Normal limit down input indicator
GC	Gates closed input indicator
MSC	Main safety chain input indicator
LPS1	Low pressure switch input indicator (Hydraulic)
	Optional car top inspection indicator (Eclipse only)
DE	Drive enable indicator
LE	Levelling indicator
HS	High speed indicator
DN	Down direction indicator
UP	Up direction indicator
OK	Watchdog input indicator

Switch	Description
SW1	Set to GEAR for geared controller
	Set to HYDRO for hydraulic controller

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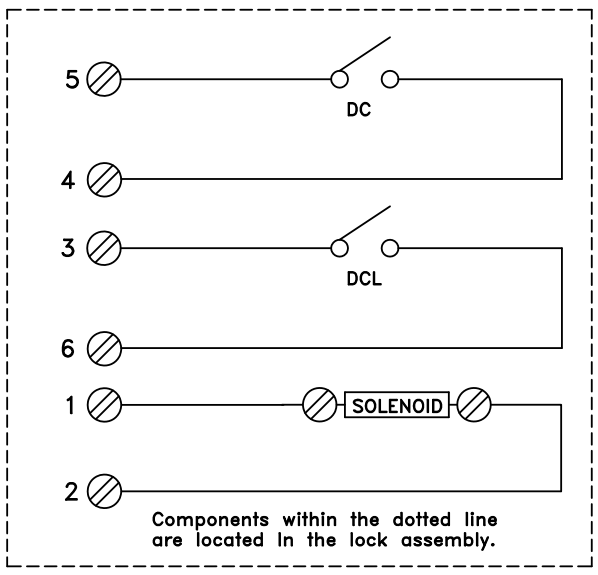
VUELIFT-6 CAR OPERATING PANEL 5-STOP

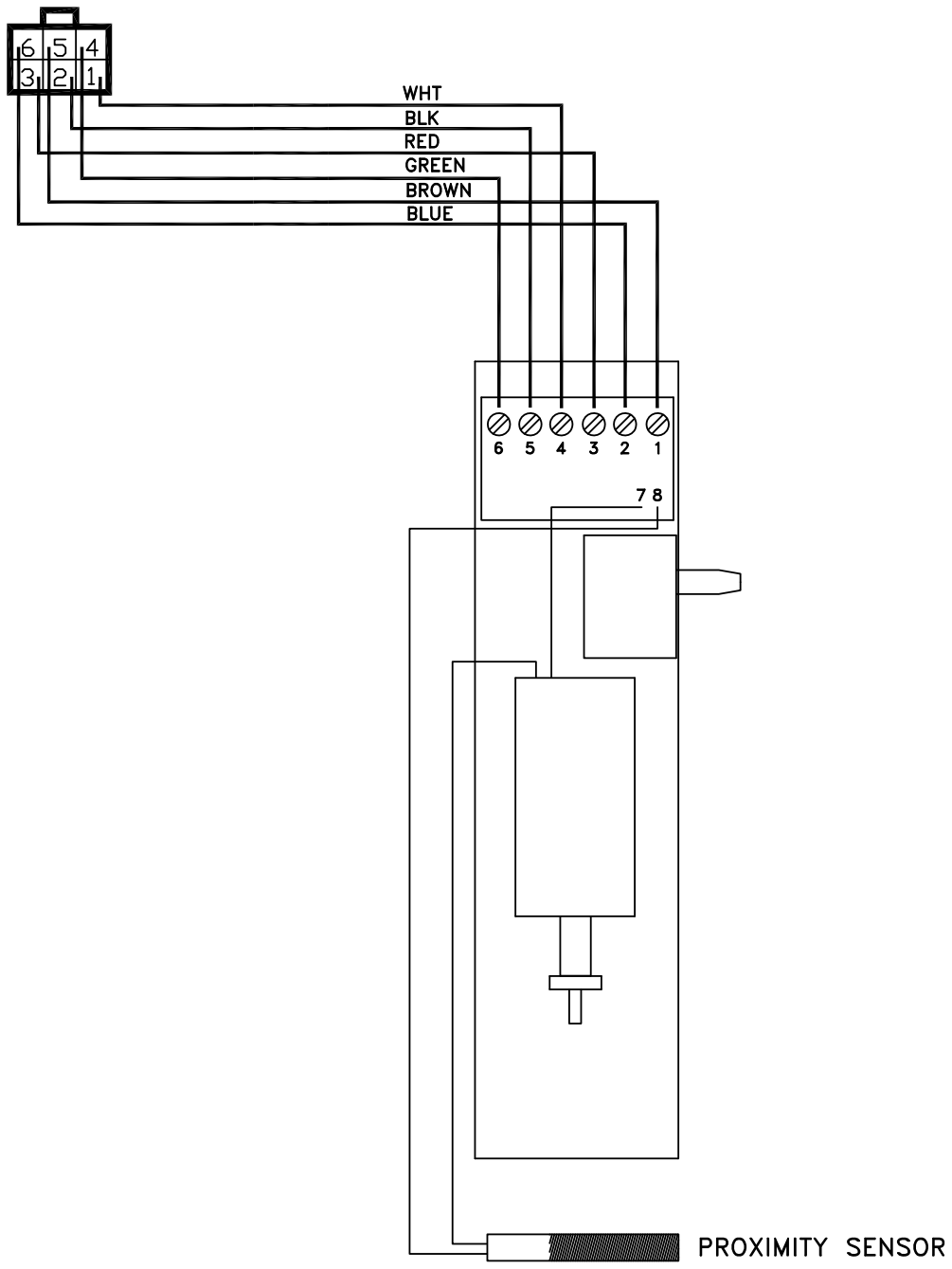


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HONEYWELL LOCK CONNECTIONS





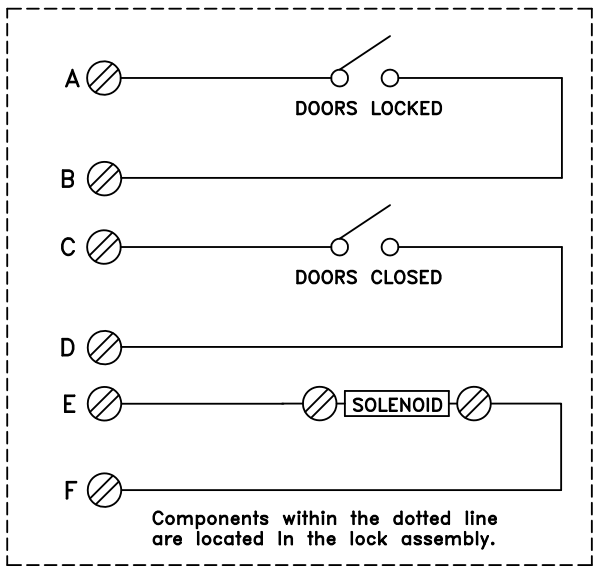
4–
5– DOOR CLOSED CONTACTS

3–
6– DOOR LOCKED CONTACTS

1– LOCK SOLENOID +
2– LOCK SOLENOID –

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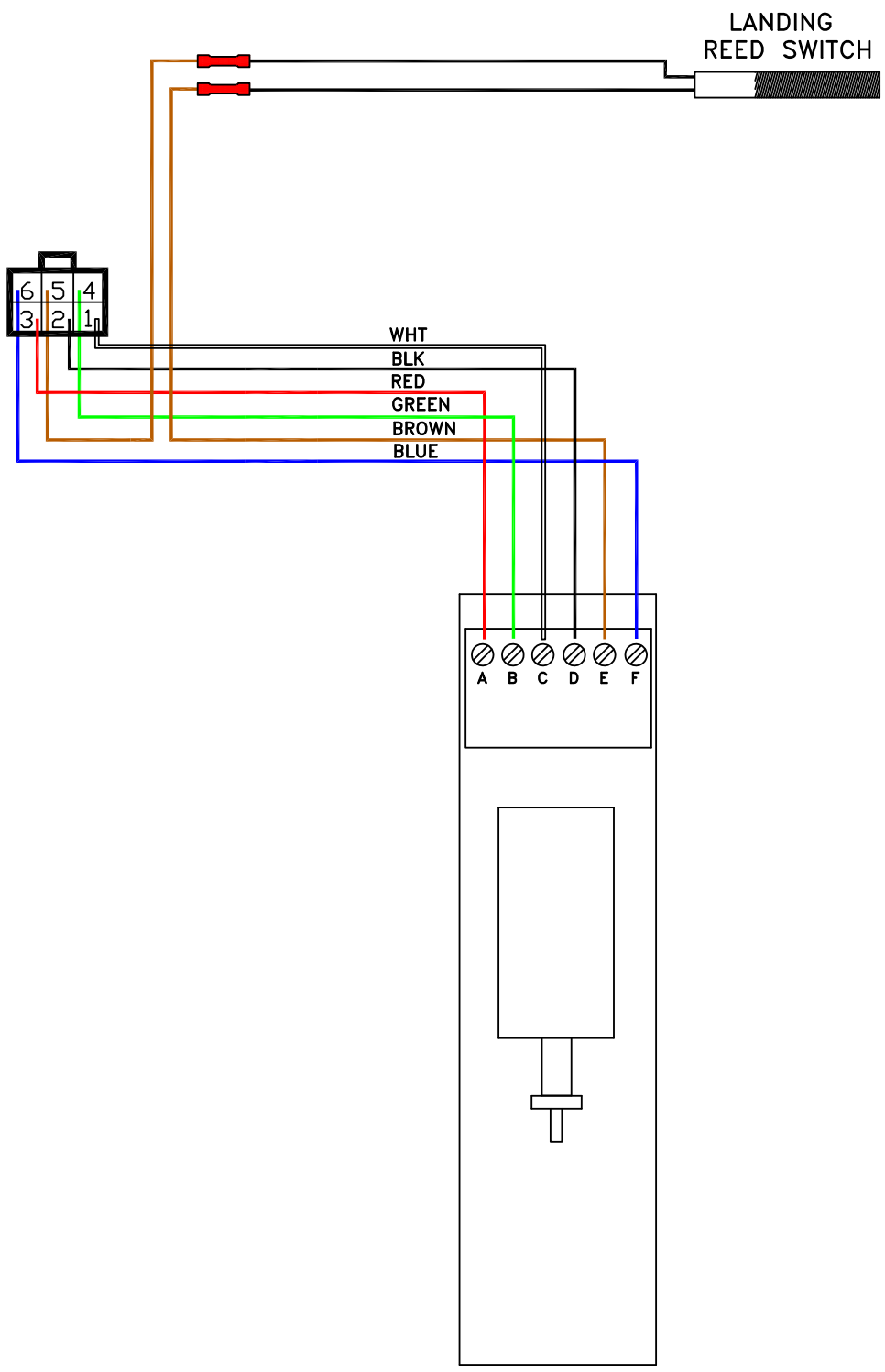
XTRONICS XDI LOCK CONNECTIONS



A–
B– DOOR LOCKED CONTACTS

C–
D– DOOR CLOSED CONTACTS

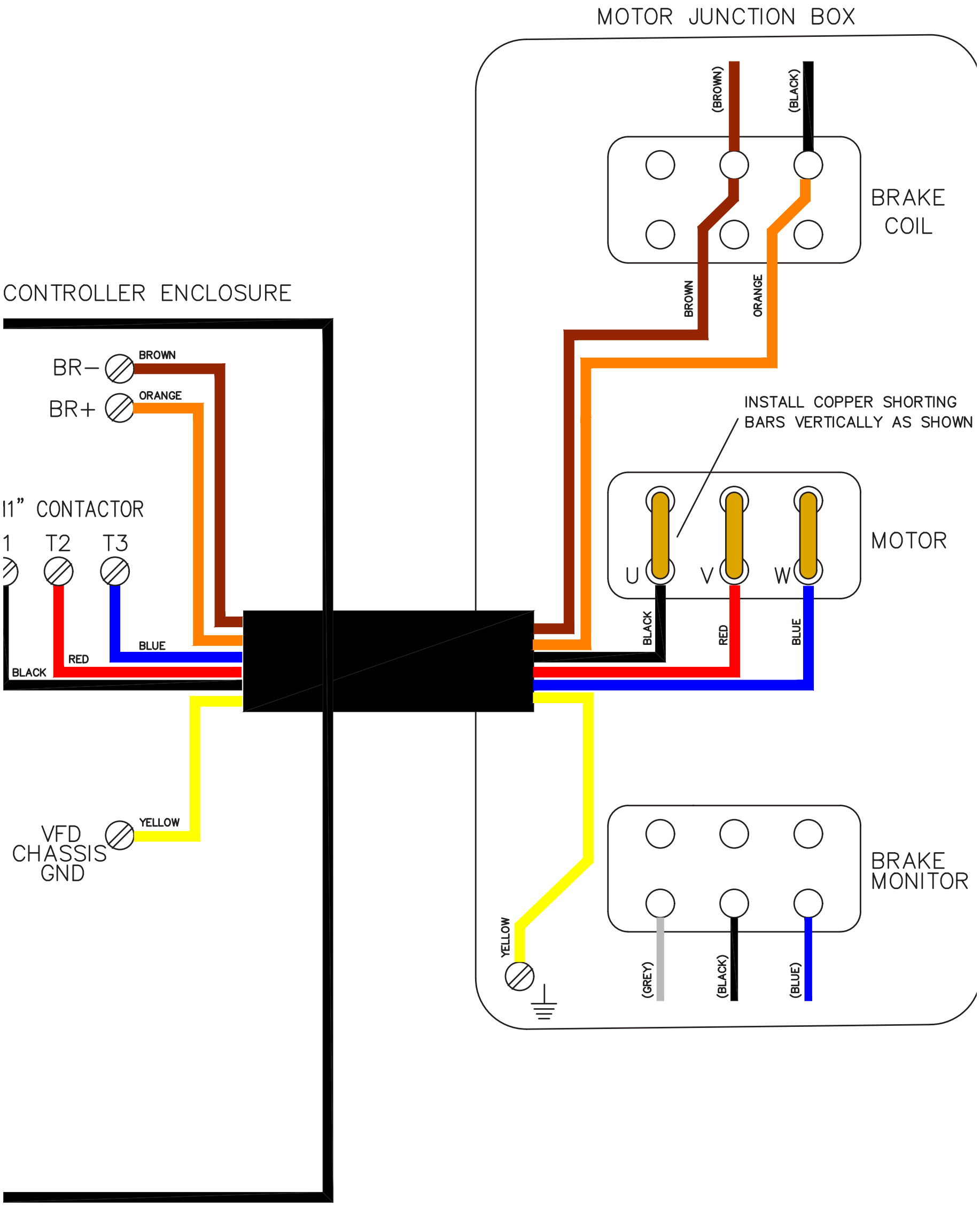
E– LOCK SOLENOID
F– LOCK SOLENOID



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	FINISH: N/A	SHEET 1 OF 1	DRAWING NO: VUELIFT–6 LOCK_HOOK

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VUELIFT MOTOR CONNECTIONS (5Hp)



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MATERIAL: N/A			SIZE B
FINISH: N/A	SHEET 1 OF 1	DRAWING NO: VUE-6 MOTOR CONNECTIONS	

TITLE: VUELIFT–6 CONTROLLER MOTOR CONNECTION DIAGRAM

POWER PCB

BL

REF

FL1 FL2 FL2

P3/D8 P7/B8
P4/B1 P8/B2
P6/B2 P8/B8

REF

P3/D1 P6/B1
P6/B7 P8/C2
24DC2

P4/C2
24DC3

P4/B2
P5/C3
24DC4

OL

CC

F2
3A

F3
3A

F4
2A

F1
4A

110V
P2/B3
P6/C2

110N
P2/C3
P5/A1
P6/C2

P5/F2
N2

N2 110 SW2 SW1 L N +V -V

RESET

Plug to:
UPS Recept.

N OUT1 H
UPS 500VA
N IN H

P2/E3
110N

Recpt. to:
UPS Plug

DISCONNECT INTERLOCKED AUX. SWITCH

PS1 (controls)
24VDC 60W

PS2 (brake)
24VDC 120W

+V2 P2/E1, P6/D2
-V2 P2/E2

PS5 (EC1)
24VDC 60W

+V3
G
P6/F4

PT1 PT2 CC

RUN SE

13 14
M1
AUX2

A

NORMAL POWER NP

B

L1 L2 N

NP
L1 T1
L2 T2
L3 T3
L4 T4

L1

L2

P2/G4

240VAC—1—60 POWER
AND 30 AMP MAX. DUAL
ELEMENT TIME DELAY FUSES
SUPPLIED BY THE ELECTRICAL
CONTRACTOR PER NEC CODE.

1 T2 1
H N 110 230
2 3

Plug to:
UPS Recept.

OUT2
UPS 500VA

300VA
Emergency Power

REV DATE: 01-24-22

PAGE 1 of 9	MODEL TYPE: GEARED
JOB#:	DIST:
DWG #: TAL8.5 (VUELIFT-6)	JOB NAME:
DWG DATE:	ENGR:

SAVARIA VUELIFT (GEARED-5 HP)

+V2
P1/E6
BR+
BR-
MOTOR BRAKE
M14
M13
-V2
P1/E6
21
24
BRK
14
13
M1
AUX1
DNX
UPX
120V coil
M1
RP
P1/D6
110V
110N
N
P1/E2
VC
UP(a)
UP
DE1
DE2
HSC
DN
HS(a)
HS(b)
UP(b)
DN(a)
DN(b)
P3/D8
11
10
DS6
DS7
PV8
PV9
P6/F7
P1/D7
PT1
PT2
P1/G5
L1
P1/G5
L2
P1/G3
LIFT MOTOR 5 HP
T1
T2
T3
M1
SC S1 S2 STF SD RL RM RH STR
RUN
SE
RELAY O/P
C
A
MITSUBISHI
VF DRIVE
5.0 Hp=FR-D720-238-NA
U V W
P/+
PR
BRAKE RESISTOR
70R 300W
FOR HIGH TRAVEL, BRAKE RESISTOR IS 66R 800W
BRK
A1
A2
24VDC coil
+V2
P1/E6
-V2
P1/E6
REV DATE: 01-24-22
PAGE 2 of 9
DWG #: TAL8.5 (VUELIFT-6)
SAVARIA VUELIFT (GEARED-5 HP)

REV DATE: 01-24-22

PAGE 3 of 9	DWG #: TAL8.5 (VUELIFT-6)

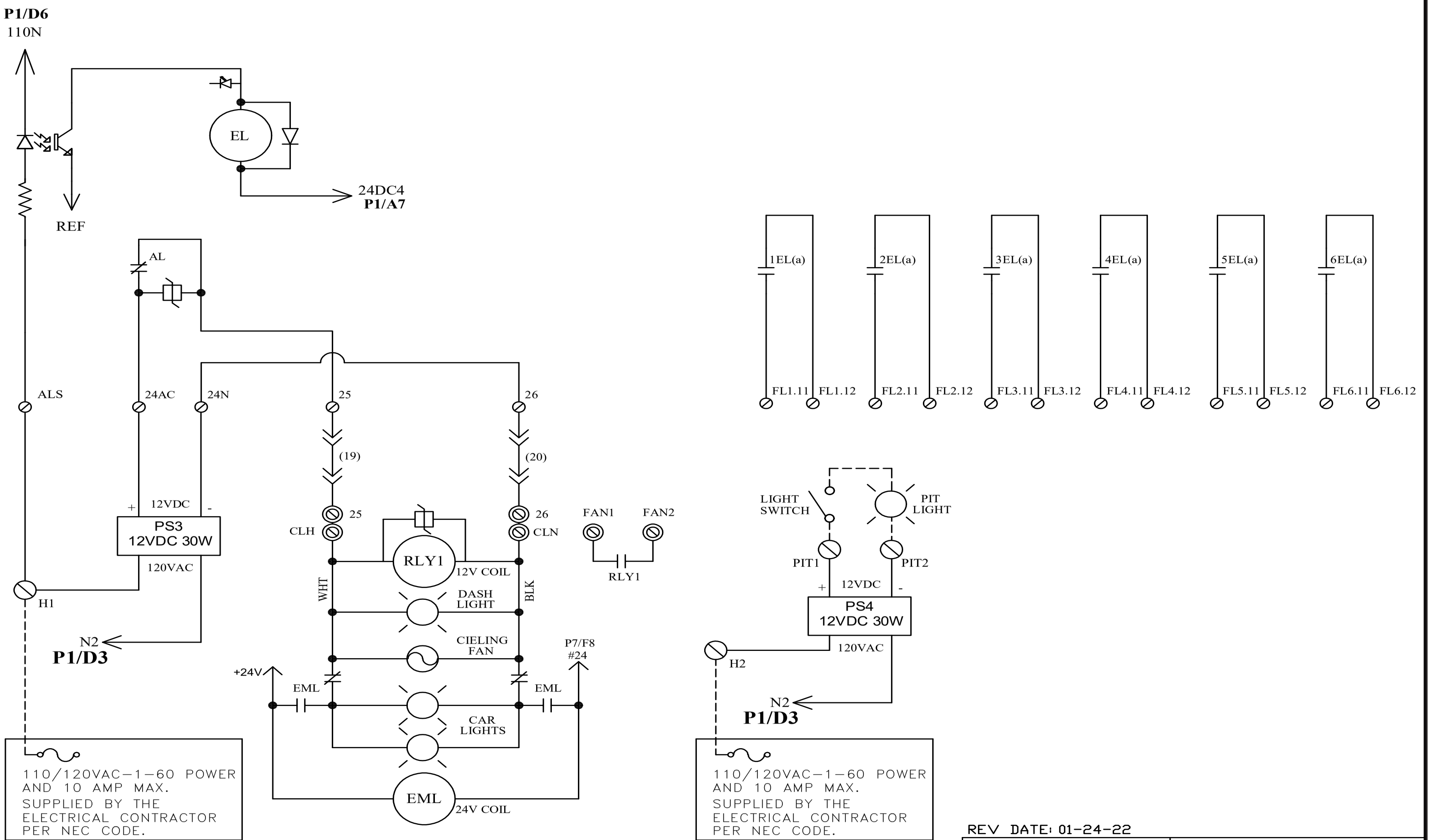
SAVARIA VUELIFT (GEARED-5 HP)

REV DATE: 01-24-22

PAGE 3 of 9	DWG #: TAL8.5 (VUELIFT-6)

SAVARIA VUELIFT (GEARED-5 HP) WITH CTIS

REF
P1/A5
P1/A7
24DC3
24DC4
P1/A7
BK(a)
BK
DZ (b)
BDZ
B1
1EL(b)
B2
2EL(b)
B3
3EL(b)
B4
4EL(b)
B5
5EL(b)
B6
6EL(b)
BKR
OK
AL
LE
1EL
2EL
3EL
4EL
5EL
6EL
OK(b)
BK(b)
OK1
DC1
DC2
DC3
DC4
DC5
DC6
FL1.6
FL1.5
FL2.6
FL2.5
FL3.6
FL3.5
FL4.6
FL4.5
FL5.6
FL5.5
FL6.6
FL6.5
ELEC. LOCK 1ST
ELEC. LOCK 2ND
ELEC. LOCK 3RD
ELEC. LOCK 4TH
ELEC. LOCK 5TH
ELEC. LOCK 6TH
CH1
CH2
CH3
CH4
CH5
CH6
EMI LOCKS AND CAR HERE LIGHTS
REV DATE: 01-24-22
PAGE 4 of 9
DWG #: TAL8.5 (VUELIFT-6)
SAVARIA VUELIFT (GEARED-5 HP)



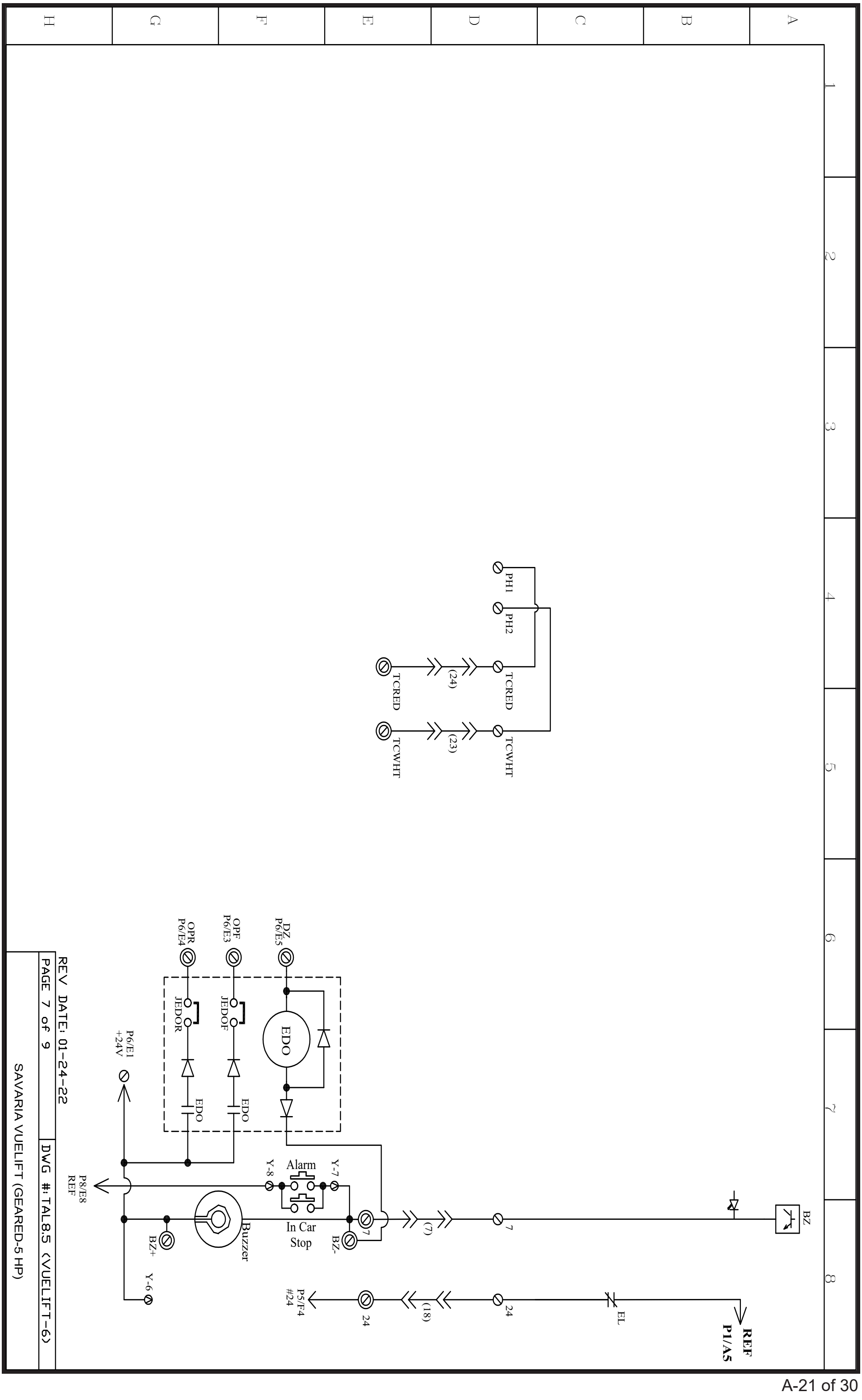
REV DATE: 01-24-22

PAGE 5 of 9	DWG #: TAL8.5 (VUELIFT-6)
SAVARIA VUELIFT (GEARED-5 HP)	

OPF
OPR
DZR
DZ
LU
LD
P1
P2
P3
TC30
REF
P1/A5
24DC2
P1/A6
DZ
DIN JACK
24DC2
P1/A6
110V
P1/D6
110N
P1/D6
P- P+ P1 P2 P3
TERMINALS FOR OPTIONAL
HALL STATION PI'S
UPX
P3/C6
DNX
P3/C6
11
+V2
P1/E6
BLK14
WHT14
9
8
23
22
21
18
19
20
28
29
30
J29.2
J29.1
J3.1
COP PI
(11)
(22)
BLK14
110H
WHT14
110N
(9)
(8)
9
OPF
8
OPR
F
E
R-6
R-5
R-3
R-2
R-1
24V 0V A B C
11
+24V
REF
IN(H) IN(N)
P8/G1
P7/G7
+24V
V+ V- V+ V-
OPTIONAL
FRONT
GATE
OPERATOR
OPTIONAL
REAR
GATE
OPERATOR
COMF
COMR
BLU
BRN
GRN
WHT
BLK
RED
SVC
IND.
DZ UL DL P1 P2 P3
J7
OUTPUTS
P1/F6
PS5
RED
BLK
+V
G
J1
POWER
EC1 PCB
J6
INPUTS
+V
IN2
DN
UP
IN1
WHT
BLK
RED
GRN
BRN
P3/E6
J29.3
IN2
REED
SWITCH
J3
ENCODER
A B Z +V GND
FOR J3 HARNESS INFORMATION, REFER
TO ENCODER WIRING ILLUSTRATION IN
SCHEMATIC PACKAGE.
Y-1
Y-2
P8/E8
REF
MOTOR
ENCODER

REV DATE: 01-24-22

PAGE 6 of 9	DWG #: TAL8.5 (VUELIFT-6)
SAVARIA VUELIFT (GEARED-5 HP)	


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
PH1
PH2
TCRED
(24)
TCWHT
(23)
TCRED
TCWHT
DZ P6/E5
OPF P6/E3
OPR P6/E4
JEDOR
JEDOF
EDO
EDO
EDO
P6/E1 +24V
P8/E8 REF
Y-8
Alarm
Y-7
In Car Stop
BZ+
BZ-
Buzzer
Y-6
7
(7)
7
BZ
REF P1/A5
24
(18)
24
P5/F4 #24
EL
REV DATE: 01-24-22
PAGE 7 of 9
DWG #: TAL8.5 <VUELIFT-6>
SAVARIA VUELIFT (GEARED-5 HP)

SAVARIA VUELIFT (GEARED-5HP) WITH CTIS

PAGE 7 of 9	DWG #:TAL8.5 (VUELIFT-6)

REV DATE: 01-24-22

CAR TOP PROP

CAR TOP PROP ACTIVATED SW — COM, NO — 6-BLK

CAR TOP PROP COMPRESSION SW — COM, NC — 5-YEL, 3-RED

CAR TOP PROP STOWED SW — COM, NO — 4-GRN, 2-BLK, 1-WHT

M: 6 5 4 / 3 2 1

F: 6 5 6 / 4 3 1

CAR TOP INSPECTION STATION

INSP RUN/STOP — 2-BLK

INSP ENABLE — 1-WHT

INSP UP — 12-TAN

INSP DOWN — 3-RED

Inspection Switch — 5-BRN

IN1 — 11-PNK

NORM — 10-GRY

9-VIO, 7-ORG, 8-YEL, 6-BLU, 4-GRN

M: 6 5 4 3 2 1 / 12 11 10 9 8 7

CAR TOP BOX

1-WHT, 2-BLK, 4-GRN, 3-RED, 5-GRY, 6-PNK

TC6 (T3.4) — SPLICE TC6-YEL

LS2 (T16.2), LS1 (T16.1), +24V (T22.3) — SPLICE TC17-ORG (LPS-1)

TC12 (T4.6) — SPLICE TC12-ORG

TC13 (T4.5) — SPLICE TC13-ORG

REF (T22.1)

F: 1 2 3 4 5 6 / 7 8 9 10 11 12

P8/E8 REF

P6/E1 +24V

Y-6, BZ+

Buzzer

OPR P6/E4 — JEDOR — EDO

OPF P6/E3 — JEDOF — EDO

DZ P6/E5 — EDO

Y-8, Y-7

Alarm, In Car Stop

BZ-

P5/F4 #24

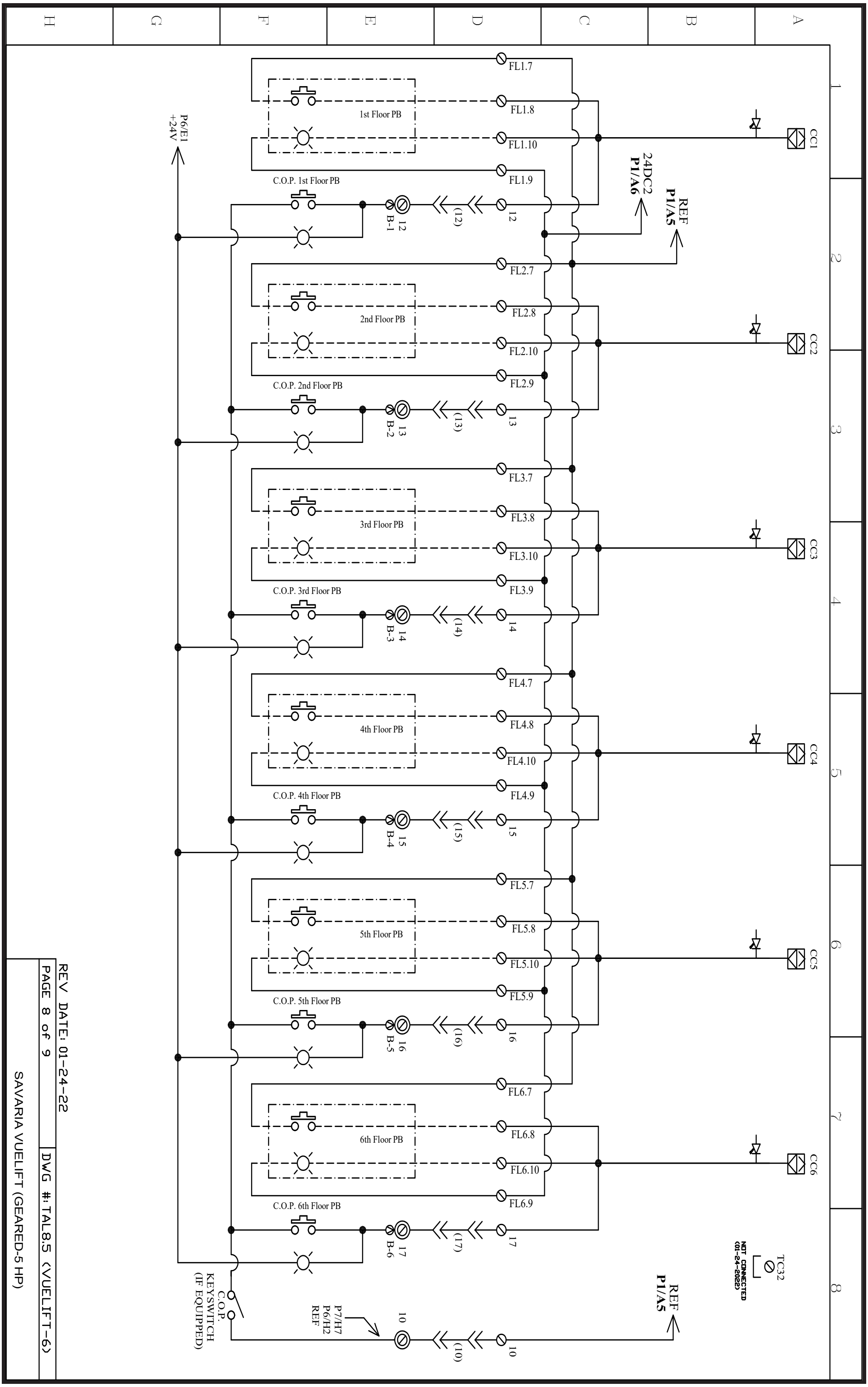
24, (18), EL

7, (7), BZ

TCWHT, TCRED, PH1, PH2, TCRED, TCWHT

(24), (23)

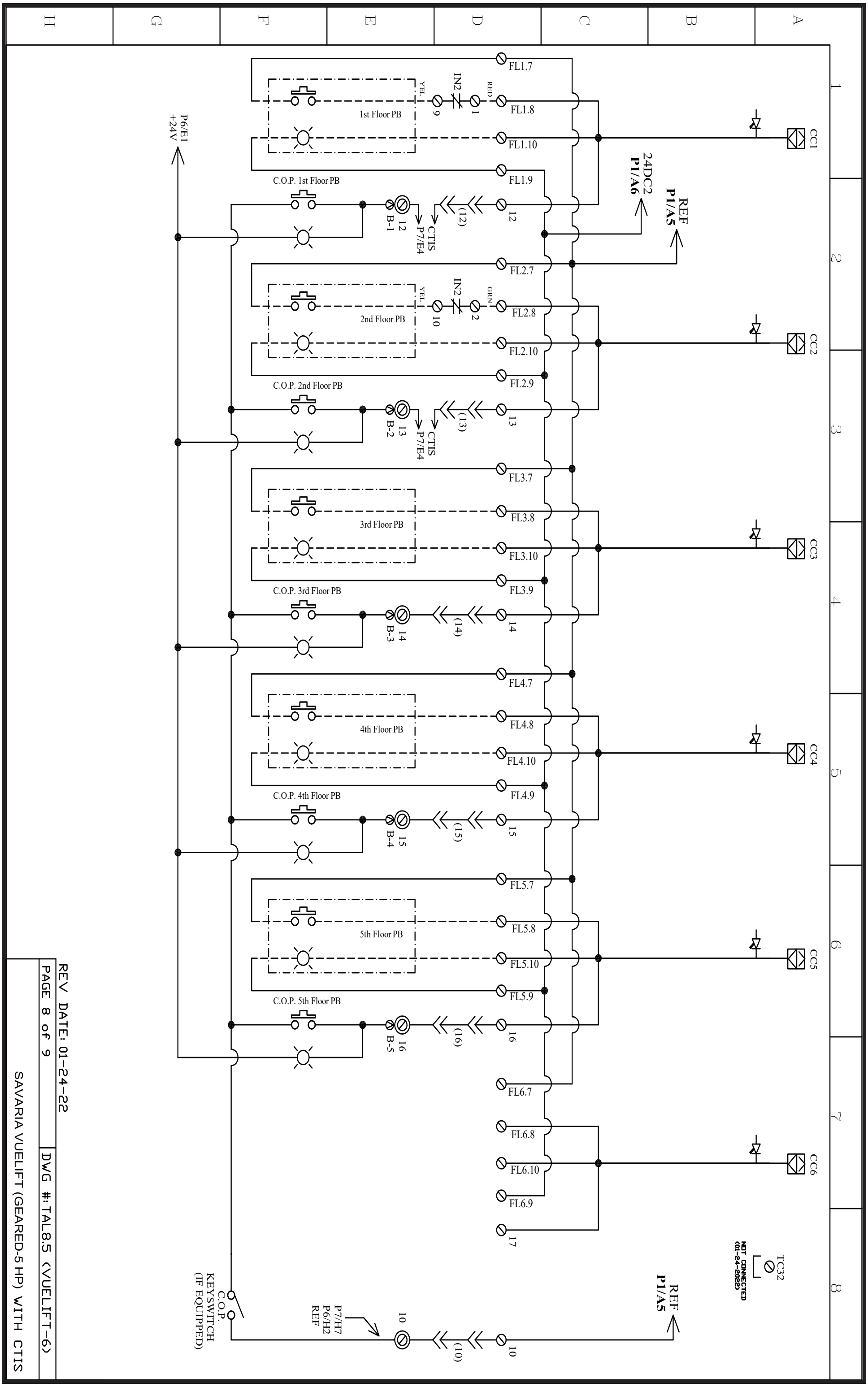
REF P1/A5



REV DATE: 01-24-22

PAGE 8 of 9 | DWG #: TAL8.5 (VUELIFT-6)

SAVARIA VUELIFT (GEARED-5 HP)



REV DATE: 01-24-22

PAGE 8 of 9 | DWG #: TAL8.5 (VUELIFT-6)

SAVARIA VUELIFT (GEARED-5 HP) WITH CTIS

1 2 3 4 5 6 7 8

A B C D E F G H

CONTROLLER TERMINAL STRIP CONNECTION

CAR TOP BOX TERMINAL

CAT-5 TERMINAL

PCB TERMINAL (INTERNAL)

PCB TERMINAL (FIELD)

COMPUTER BIDERECTIONAL TERMINAL

COMPUTER INPUT

COMPUTER OUTPUT

COMPUTER TRANSISTOR OUTPUT

HOISTWAY CONNECTED WIRE

FACTORY CONNECTED WIRE

BRIDGE RECTIFIER

VARISTOR

TRAVEL CABLE WIRE

RELAY COIL
VALVE COIL

LIMIT SWITCH N.C.

LIMIT SWITCH N.O.

P1 P2 TEMPERATURE SENSER

LIGHT

PUSH BUTTON

DIODE

TOGGLE SW
DPDT

CONTACT N.O.

CONTACT N.C.

HAND OPERATED SWITCH N.C.

HAND OPERATED SWITCH N.O.

FUSE

Test point on PCB

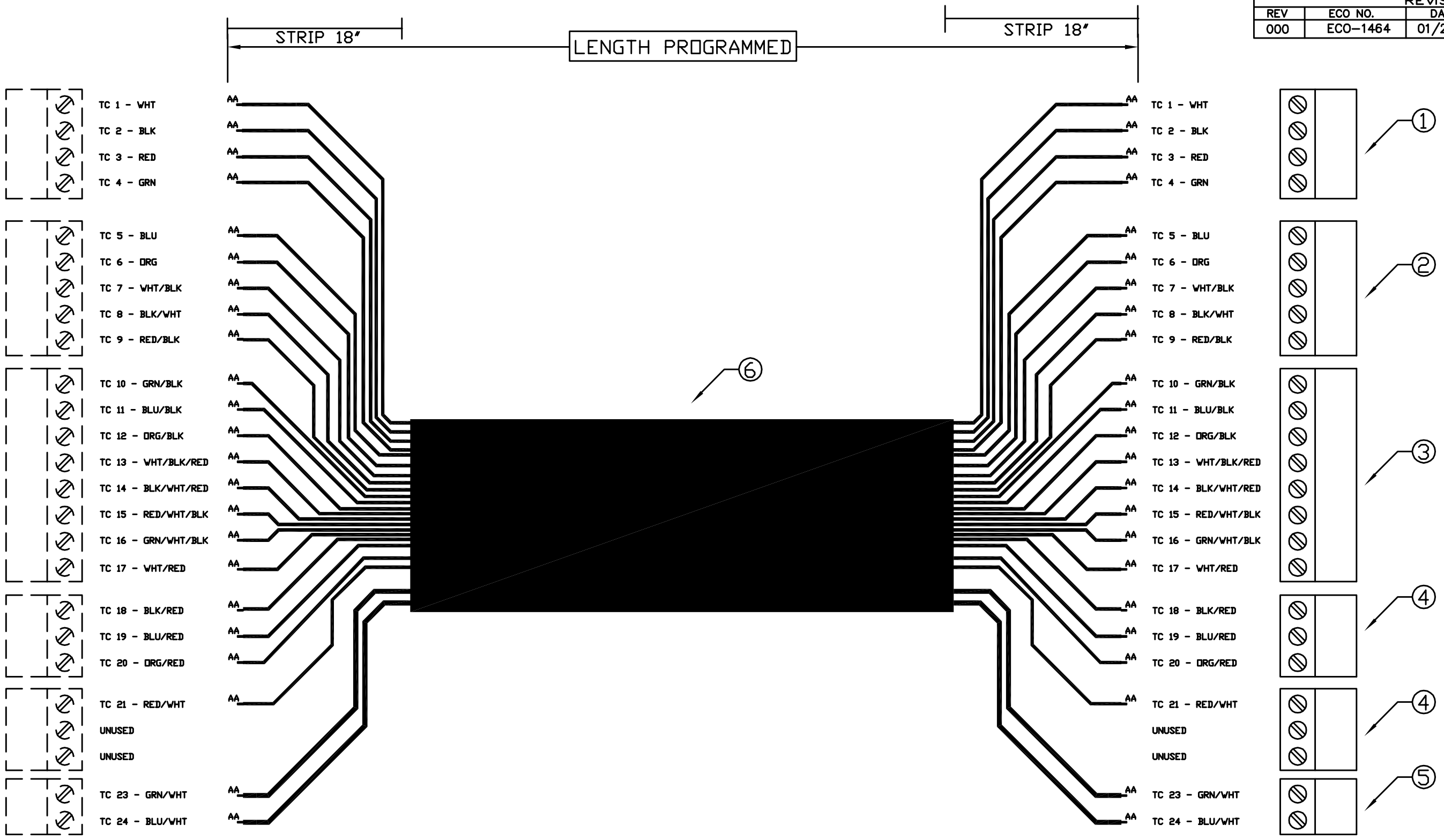
PRESSURE SWITCH N.O.

CIRCUIT BREAKER

REV DATE: 01-24-22

PAGE 9 of 9	DWG #: TAL8.5 (VUELIFT-6)
SAVARIA VUELIFT (GEARED-5 HP)	

REVISIONS			
REV	ECO NO.	DATE	REVISED BY
000	ECO-1464	01/21/20	1ST RELEASE



NOTE: SCREW TERMINAL CONNECTORS FOUND IN CONTROLLER. THIS END IS WIRED BY INSTALLER. DOTTED LINES ARE FOR REFERENCE ONLY.

NOTE: RED/GRN AND ORG/GRN WIRES NOT USED.

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TITLE:
VUELIFT-6
TRAVELING CABLE
EXT. HARNESS ROUND

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 =±2 X =±0.5

MATERIAL: N/A

FINISH: N/A

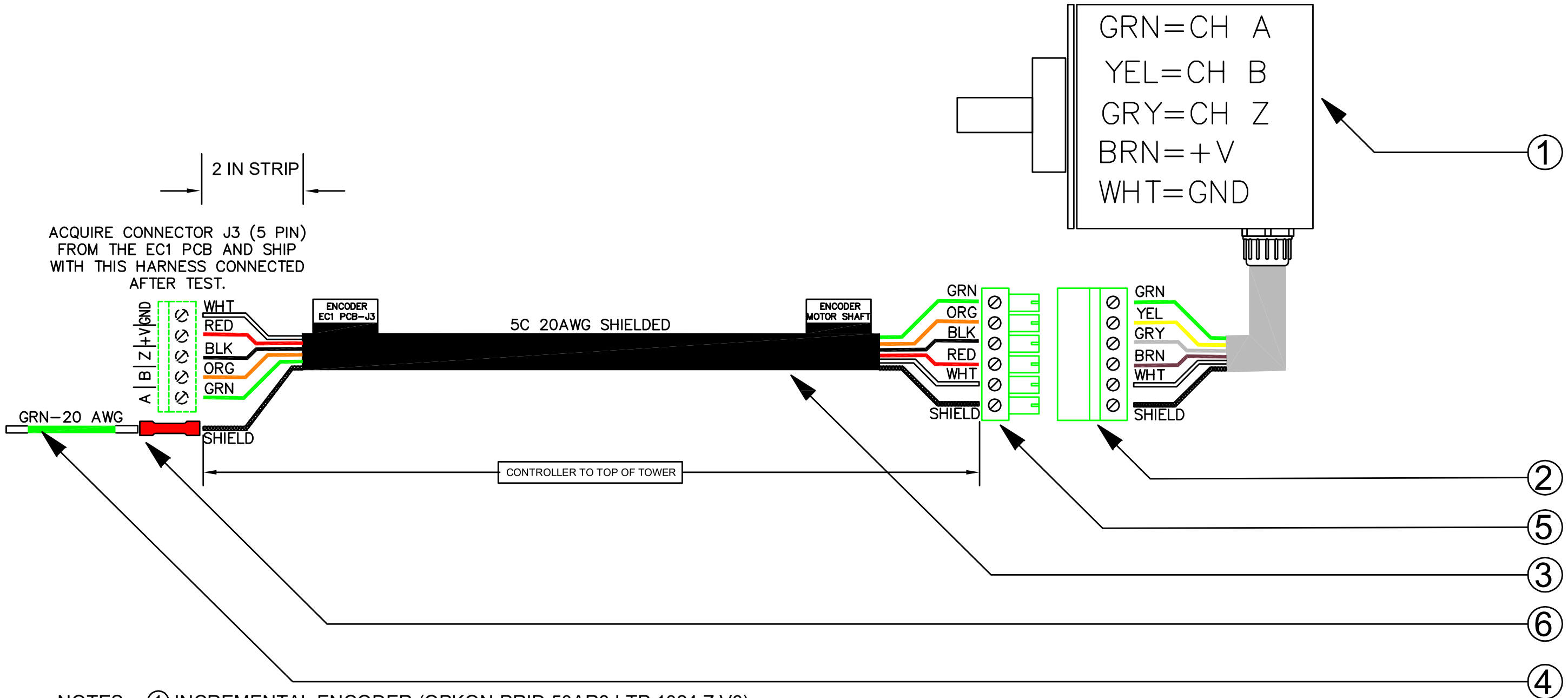
DO NOT SCALE DRAWING

REMOVE ALL BURRS & SHARP CORNERS

DESIGNED BY:	DESIGN DATE:	SCALE:	REVISION:
		N/A	000
DRAWN BY: JS	DRAWN DATE: 01/21/20	DRAFTSPERSON:	
SHEET 1 OF 1	DRAWING NO: EL-0244		SIZE B

ENCODER WIRING

REVISIONS			
REV	ECO NO.	DATE	REVISED BY
000	C4	05/13/19	1ST RELEASE
001	C4	03/09/20	C. QUIRK
002	C4	05/15/20	C. QUIRK
003	EC01909	01/25/22	JS
004	EC01909	06/06/22	JS



NOTES:
1. INCREMENTAL ENCODER (OPKON-PRID 50AR8 LTP 1024 Z V3)
2. SCREW TERMINAL-6POS FEMALE (PHOENIX CONTACT-1857922)
3. WIRE IS 20AWG, 5C, SHIELDED, FT-4, CSA APPROVED
4. WIRE IS 30", 20AWG, GREEN, TYPE-B HOOK UP, CSA APPROVED
5. SCREW TERMINAL-6POS MALE (PHOENIX CONTACT-1803617)
6. BUTT SPLICE RED (PROVO T870)

APPLY IDENTIFYING LABELS TO EACH END OF THE CABLE

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TITLE: VUELIFT–6 CONTROLLER INCREMENTAL ENCODER HARNESS

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

MATERIAL: N/A

FINISH: N/A

DO NOT SCALE DRAWING

REMOVE ALL BURRS & SHARP CORNERS

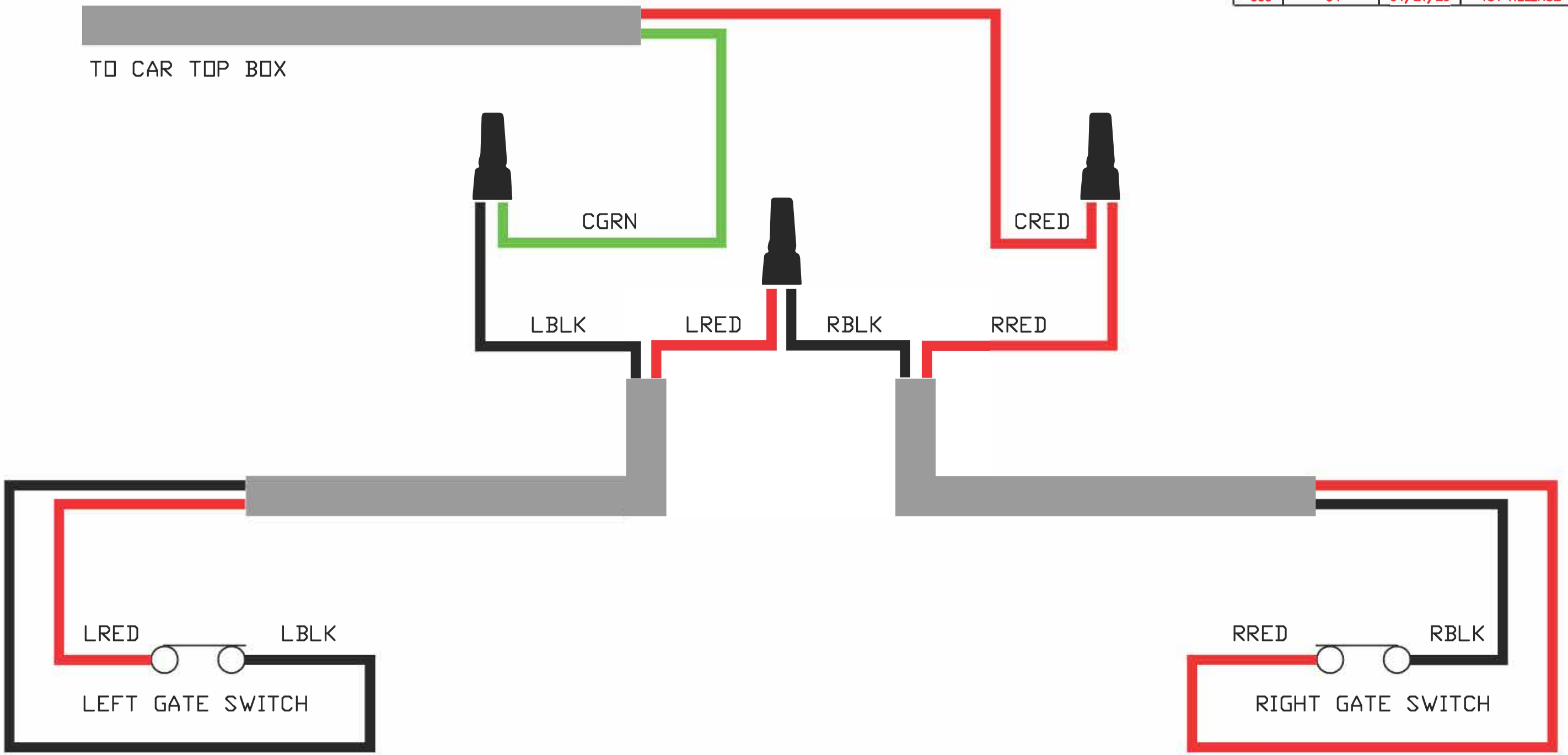
DESIGNED BY:	DESIGN DATE:	SCALE:	REVISION:
		N/A	004
DRAWN BY:	DRAWN DATE:	DRAFTSPERSON:	
CQ	05/13/19	N/A	

SHEET 1 OF 1

DRAWING NO: EL–0218

SIZE B

REVISIONS			
REV	ECO NO.	DATE	REVISED BY
000	C4	04/21/20	1ST RELEASE



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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]	DO NOT SCALE DRAWING	REMOVE ALL BURRS & SHARP CORNERS		
	DESIGNED BY:	DESIGN DATE:	SCALE: N/A	REVISION: 000
MATERIAL: N/A	DRAWN BY: JS	DRAWN DATE: 04/21/20	DRAFTSPERSON: N/A	
FINISH: N/A	SHEET 1 OF 1	DRAWING NO: GATE_SW_SERIES_OCT		SIZE B

TITLE: VUELIFT OCTAGONAL GATE SWITCH SERIES HOOK-UP

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